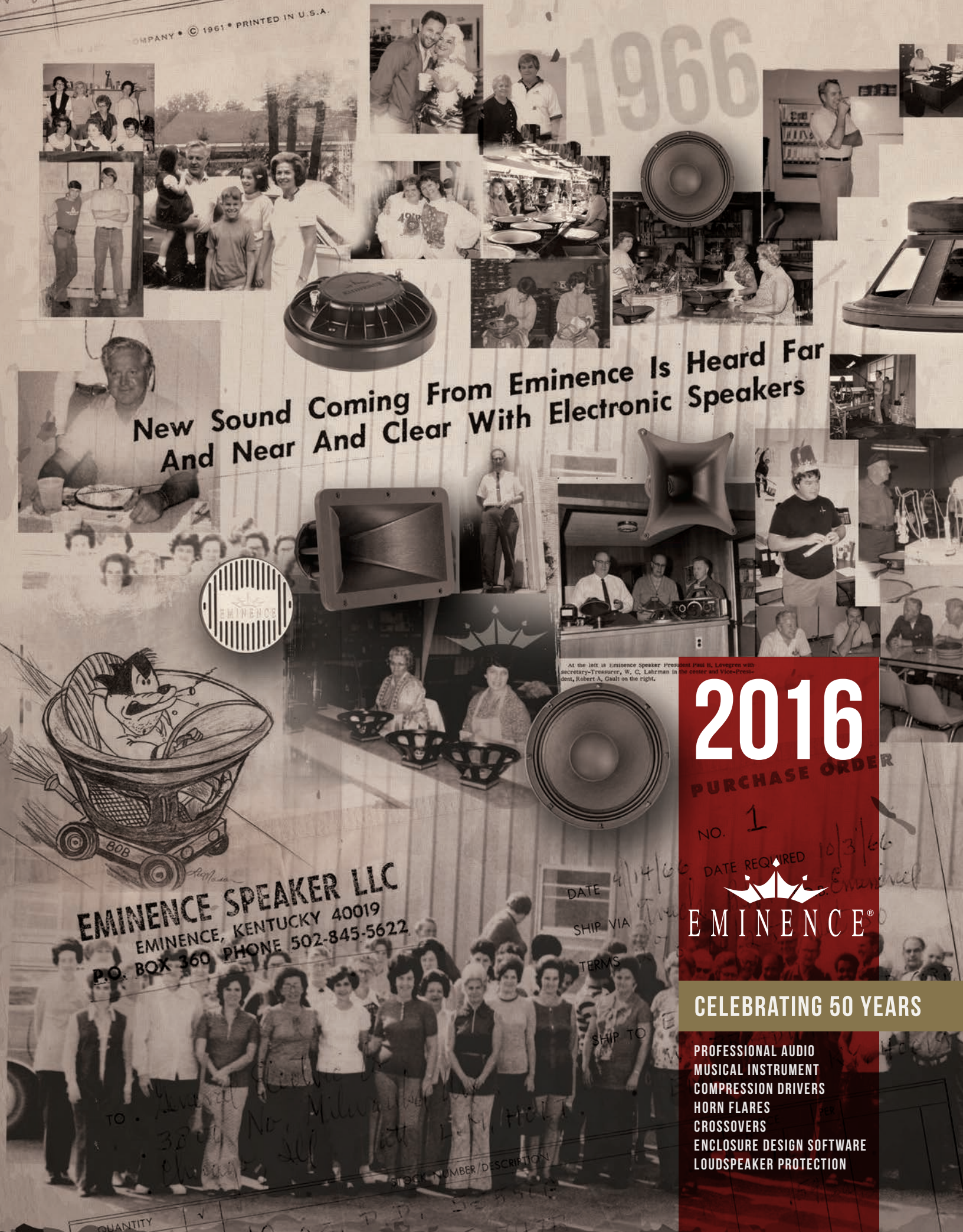

1966
New Sound Coming From Eminence Is Heard Far And Near And Clear With Electronic Speakers
EMINENCE SPEAKER LLC
EMINENCE, KENTUCKY 40019
P.O. BOX 360 PHONE 502-845-5622
2016
PURCHASE ORDER
NO. 1
DATE REQUIRED
EMINENCE®
CELEBRATING 50 YEARS
PROFESSIONAL AUDIO
MUSICAL INSTRUMENT
COMPRESSION DRIVERS
HORN FLARES
CROSSOVERS
ENCLOSURE DESIGN SOFTWARE
LOUDSPEAKER PROTECTION

CELEBRATING 50 YEARS.

Bob Gault
1925 – 2002

In 1966 Bob Gault founded what was to become the world's largest loudspeaker manufacturing company after working as an engineer for Magnavox and CTS (Chicago Telephone Supply). Ironically, Gault started Eminence building only three 18" speakers per day, based on a commitment from Ampeg's Everett Hull. Under the leadership of Gault and most recently his son, Rob, the company's capacity grew to over 10,000 speakers per day, employing nearly 200 people.

Gault was the president of Eminence from the company's inception until 1992. He officially retired in 1993, but continued to make valuable contributions to the company. Gault passed away on October 4, 2002. He was a husband, father, and grandfather. Gault was also an avid golfer. He is greatly missed by his family, the music industry, and the Eminence community.

Our first facility was less than 6,000 sq. ft. and employed around thirty people. In 1972 Eminence Speaker moved to a new location in Shawnee Industrial Park on Mulberry Pike where we remain today. The facility has seen several additions. The first building in this location was just less than 30,000 sq. ft., but now has grown to include nearly 100,000 sq. ft. all under one roof.

1 Engineering
Eminence engineers diligently work to satisfy the needs of individual customers through a custom design, or to assist in the integration of an off-the-shelf Eminence product for their application. Through the use of multiple design and testing technologies along with our CAD systems, mechanical, thermal, and magnetostatic modeling software, computerized audio testing systems, and 3D printer, our engineers produce as many as 2,000 hand-built samples per year.

2 Sales & Customer Service
All sales for our custom OEM and Eminence branded products are administrated in our Eminence, Kentucky headquarters. We pride ourselves on our customer service, and have built a reputation within our industry for providing the highest quality products and support. Our 7-year warranty for Eminence branded loudspeakers says it all.

3 Management / Administration
This area houses Accounting, Production Scheduling, Marketing, Purchasing and Executive Management.

4 Voice Coil Department
Eminence has developed the finest voice coils in the industry. We currently produce 1 layer "edgewound", 2 layer, 4 layer, dual, and dual-parallel coils. Winding lengths vary from .080" (2 mm) to 1.6" (40.6 mm). Standard impedances range from less than 1 ohm all the way to 70 ohms.

5 High Frequency Department
Eminence manufactures HF products for both our branded and OEM product lines. Products include 1", 1.4", and 2" throat devices, some incorporating neodymium motor structures, and others with standard ferrite motor structures.

6 Warehouse
Inventory of all Genuine Eminence finished goods is stored here.

7 Receiving / Q.C.
Incoming components are received in this area and go through a rigorous Q.C. evaluation process. We believe quality products can only be made from quality components. Our commitment to quality is reflected in our ISO 9001:2008 certification.

8 Component Storage
Many of our components, including cones, gaskets and packaging are stored here.

9 Dust Cap Department
We have the capability to produce custom-logo dust caps, incorporating the use of pad printing, decal transfer or hot stamping.

10 Press Shop
Our Press Shop allows us to make all our top plates and back plates, as well as the ability to modify many purchased components. The Eminence Press Shop houses 13 presses, including three 300-ton Verson presses and one 600-ton Multipress.

11 Tool Room
The machinery and technology used in the manufacturing of loudspeakers is not something readily available from your local hardware store. The efforts of this department represent some of the industry's most significant advancements in loudspeaker production.

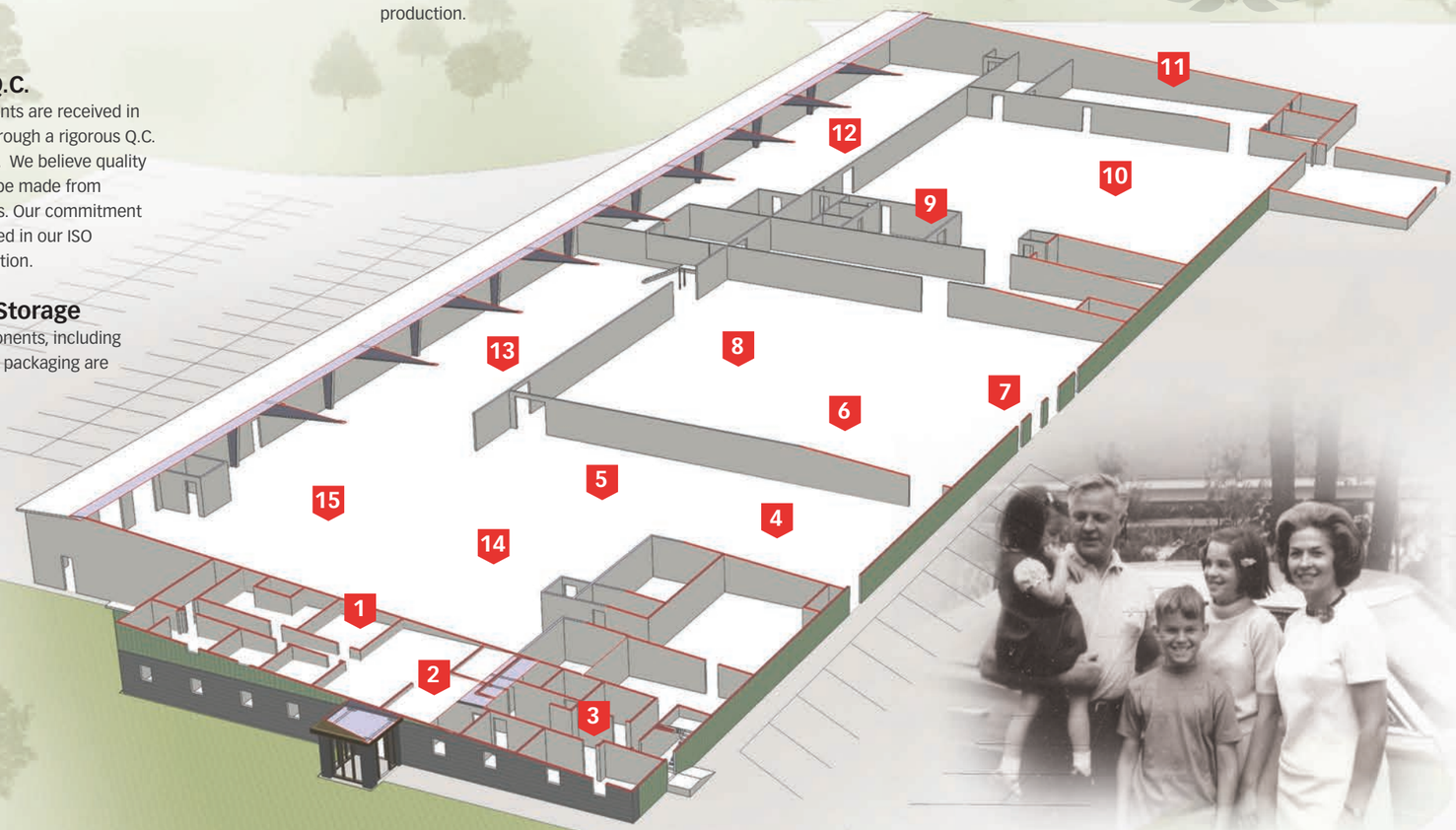
12 Paint Department
Eminence uses a state-of-the-art electrocoat paint system to apply a uniform coating of cationic epoxy paint over the entire surface of our metal parts, including the magnetic gap, to a controlled thickness of less than 0.001".

13 Final Assembly
The Eminence Final Assembly process is based on an integration of human elements along with the finest assembly machines and tooling available in this industry. There is no substitute for conscientious assembly technicians involved in the manufacturing of our products.

14 Testing/Packing Dept.
All products move from Final Assembly to our Testing/Packing Department where they are carefully inspected. After cosmetic amendments are added, they are packaged for shipment throughout the world.

15 Shipping / Finished Goods
Most products we manufacture on a custom basis go from Testing/Packing to Shipping and are quickly dispatched to respective customers.

ISO 9001:2008 CERTIFIED COMPANY



INSIDE

NEW FOR 2016

ALPHA 4

Perfectly suited for line arrays, car doors and side panels, and other tight fitting applications, the Alpha 4 is a very versatile 110 watt driver that can be used full range, as a midbass, or as a midrange. Page 59

KAPPA PRO 18LF

The Kappa Pro 18LF provides tons of low frequency output as a subwoofer in small to medium sized boxes, a woofer in large three-way PA enclosures, or as a high-power bass guitar woofer. Page 32

HEMPDOG 12

A signature guitar speaker developed with Grammy Award-winning producer/guitarist Pete Anderson. "The HempDog has exceeded my expectations. It has the hi-fidelity I require plus the warmth of hemp, an outstanding combination that covers all genres of music." Page 100

CV-65

The 8Ω CV-65 offers 65 watts of classic British guitar tone, and features warm, throaty mids, sweet, articulate highs, and nice, detailed harmonic complexity. Page 130

BASSLITE SC10

Designed specifically for sealed 4x10 and 8x10 bass guitar cabinets, this 10" driver features an ultra-lightweight 4 oz. neodymium magnet and is available in 16 and 32 ohm options. Page 144

LEGEND BP122 AND BP1525

New to the Legend series of bass guitar drivers are the 12" BP122 and 15" BP1525. They work great in small sealed enclosures and deliver rich, warm tone and deep bass from your instrument. Also ideal for many pro audio and home hi-fi applications. Page 147 / 149

CUTTING-EDGE SUPPORT

Our mission is to provide the best Quality, Value and Service to meet your needs.

7-YEAR WARRANTY*

Buy or sell Genuine Eminence products with complete confidence, knowing they come backed with the industry's leading warranty. Our products are designed and assembled in the USA by the most skilled and dedicated employees you will find anywhere.

*Warranty policy may vary outside of the continental United States and Canada. Check with your local distributor for warranty details.

BUYEMINENCE.COM

Order online – anytime! As a dealer you'll have 24/7 access to our entire product line at BuyEminence.com

WIDE PRODUCT SELECTION

From high-end pro audio applications, to replacement or upgrade guitar and bass speakers, Eminence has a hand-made product that will exceed your expectations.

UNRIVALED CUSTOMER SERVICE

We take great pride in our commitment to quality, value and service, so if you have questions, we are ready to assist. From Tech Support, to Sales and Marketing, to even our Design Engineers, we will take the time to personally consult with you to ensure your needs are met.

NOW ON THE OMACRO AND SHOPATRON NETWORKS*

With Shopatron, consumers can make purchases directly from our Eminence.com website. As a dealer you'll be able to fulfill these orders and get the sale. We can also send users directly to our product listing on your website with the Omacro "Buy it Now" option. All you have to do is have the item in stock!

Shopatron omacro The Product Network

*Availability of the Shopatron and Omacro networks may vary outside the United States.

CUTTING-EDGE TECHNOLOGY

Offering the tools to build bullet-proof enclosures.

EMINENCE DESIGNER

Eminence Designer is a state-of-the-art loudspeaker enclosure design program for PCs. It can calculate a box design that will bring out the best response from a loudspeaker in seconds - it can even suggest a box for your loudspeaker! Eminence Designer models closed, vented, bandpass and passive radiator boxes. It will print box drawings and graphs for a professional presentation. Eminence designer is quick to learn and easy to use.

D-fend™

DIGITALLY FACTORED ENERGY DAMPING

With the D-fend™ SA300 there are no more worries about blown speakers, HF drivers or crossovers. Or even worse: fire caused by excessive heat. Simply set the thresholds and D-fend™ monitors and limits the amount of input power it passes through to the loudspeaker. Protect your products, venue, customers, and your reputation with the first passive speaker protection system that is virtually indestructible.

YouTube™

See the technology demonstrations on our YouTube channel: www.youtube.com/user/eminencespeaker

LOUDSPEAKER SELECTION GUIDE

Use the selection guide on the next several pages to quickly identify the right driver for your application.
View each product's full data sheet on the page indicated next to its model name.

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Answers to common questions can be found in the support section of our website at www.eminence.com.

		MODEL		PROGRAM POWER	VOICE COIL	Ω	SPL	FREQUENCY RANGE	FS	QT	VAS	XMAX	APPLICATION					BOX TYPE				MODEL	
													MIDRANGE	MIDBASS	WOOFER	SUBWOOFER	BASS GUITAR	SEALED	VENTED	SCOOP LOADING	HORN LOADING		
4”		ALPHA 4	page 59	110 W	1”	8 or 4	88 dB	105 Hz – 10 kHz	120 Hz	0.63	1.76 liters	2.6 mm	✔	✔				✔	✔			ALPHA 4	page 59
5”	NEO	PRO 5MRN-8	page 56	130 W	1”	8	93.1 dB	325 Hz – 20 kHz	223 Hz	0.7	0.85 liters	0.5 mm	✔				✔	✔				PRO 5MRN-8	page 56
		PRO 5W-8	page 44	150 W	1”	8	91.1 dB	120 Hz – 7.5 kHz	95 Hz	0.32	4.31 liters	3 mm	✔	✔	✔		✔	✔	✔			PRO 5W-8	page 44
6”		ALPHA-6A	page 60	200 W	1.5“	8 or 4	93.6 dB	95 Hz – 6 kHz	103 Hz	0.54	5.8 liters	3.5 mm	✔	✔				✔	✔		✔	ALPHA-6A	page 60
		ALPHA-6CBMRA	page 61	200 W	1.5“	8	97.8 dB	400 Hz – 5 kHz	407 Hz	1.35	0.45 liters	1.5 mm	✔								✔	ALPHA-6CBMRA	page 61
	NEO	ALPHALITE 6A	page 45	200 W	1.5“	8	94 dB	100 Hz – 5.5 kHz	126 Hz	0.56	4.92 liters	3.5 mm	✔	✔				✔	✔		✔	ALPHALITE 6A	page 45
		LA6-CBMR	page 85	300 W	1.5“	8	97.8 dB	500 Hz – 5.4 kHz	460 Hz	0.89	0.4 liters	0.2 mm	✔								✔	LA6-CBMR	page 85
		BETA-6A	page 67	350 W	2”	8	94 dB	95 Hz – 4 kHz	123 Hz	0.56	3.51 liters	4.5 mm	✔	✔				✔	✔		✔	BETA-6A	page 67
8”		ALPHA-8A	page 62	250 W	1.5“	8	94 dB	58 Hz – 5 kHz	73 Hz	0.59	17.7 liters	3.2 mm	✔	✔	✔		✔	✔	✔			ALPHA-8A	page 62
		ALPHA-8MRA	page 63	250 W	1.5“	8	100.9 dB	400 Hz – 4.8 kHz	514 Hz	1.42	0.8 liters	1.6 mm	✔				✔				✔	ALPHA-8MRA	page 63
		DELTA PRO-8A	page 18	450 W	2”	8 or 16	97.8 dB	100 Hz – 3 kHz	69 Hz	0.22	18.32 liters	3 mm	✔	✔				✔	✔		✔	DELTA PRO-8A	page 18
		BETA-8A	page 68	450 W	2”	8	95.1 dB	78 Hz – 4.5 kHz	65 Hz	0.38	23.3 liters	3 mm	✔	✔	✔			✔	✔		✔	BETA-8A	page 68
		BETA-8CX	page 69	500 W	2”	8	92.9 dB	95 Hz – 3.3 kHz	62 Hz	0.29	21.43 liters	3.2 mm	✔	✔	✔			✔	✔			BETA-8CX	page 69
10”		ALPHA-10A	page 64	300 W	1.5“	8	95.6 dB	57 Hz – 4.5 kHz	50 Hz	0.59	82.2 liters	3.2 mm	✔	✔	✔		✔	✔	✔		✔	ALPHA-10A	page 64
		BASSLITE S2010	page 145	300 W	2”	8	96.2	54 Hz – 3 kHz	46 Hz	0.31	63.4 liters	4 mm		✔	✔		✔		✔			BASSLITE S2010	page 145
		DELTA PRO 10MR-8	page 19	400 W	2.5“	8	99.8 dB	52.7 Hz – 4.4 kHz	53 Hz	0.23	61.37 liters	1.3 mm	✔	✔				✔			✔	DELTA PRO 10MR-8	page 19
		BETA-10CBMRA	page 71	400 W	2”	8	99.6 dB	300 Hz – 4 kHz	326 Hz	1.73	1.7 liters	1.5 mm	✔								✔	BETA-10CBMRA	page 71
		LEGEND BP102	page 143	400 W	2”	8 or 4	91.8 dB	4- Hz – 2 kHz	35 Hz	0.43	91.2 liters	6.2 mm		✔	✔	✔	✔	✔	✔			LEGEND BP102	page 143
		BETA-10A	page 70	500 W	2”	8	97 dB	51 Hz – 3.8 kHz	53 Hz	0.49	60.1 liters	3 mm		✔	✔		✔	✔	✔		✔	BETA-10A	page 70
		BETA-10CX	page 72	500 W	2”	8	94.3 dB	60 Hz – 4 kHz	49 Hz	0.38	61.1 liters	5 mm	✔	✔	✔			✔	✔			BETA-10CX	page 72
	NEO	DELTALITE II 2510	page 46	500 W	2.5“	8 or 4	97.3 dB	60 Hz – 4 kHz	53 Hz	0.42	52.5 liters	4.2 mm		✔	✔		✔	✔	✔		✔	DELTALITE II 2510	page 46
		LA10850	page 35	700 W	3”	8	98.7 dB	120 Hz – 4.3 kHz	55 Hz	0.25	57.68 liters	2.9 mm	✔	✔				✔	✔		✔	LA10850	page 35
		DELTA-10A	page 77	700 W	2.5“	8 or 16	98.8 dB	63 Hz – 3.7 kHz	66 Hz	0.33	30.5 liters	3.5 mm	✔	✔	✔		✔		✔		✔	DELTA-10A	page 77
	NEO	KAPPALITE 3010HO	page 49	800 W	3”	8	99.9 dB	400 Hz – 4 kHz	61 Hz	0.26	37.21 liters	4.4 mm	✔					✔	✔		✔	KAPPALITE 3010HO	page 49
	NEO	KAPPALITE 3010MB	page 50	800 W	3”	8	98.6 dB	85 Hz – 3.6 kHz	51 Hz	0.2	52.1 liters	5 mm	✔	✔				✔	✔		✔	KAPPALITE 3010MB	page 50
	NEO	KAPPALITE 3010LF	page 51	900 W	3”	8	92.7 dB	42 Hz – 1.6 kHz	39 Hz	0.27	62.41 liters	8.5 mm			✔	✔	✔		✔		✔	KAPPALITE 3010LF	page 51
		KAPPA PRO-10A	page 27	1000 W	3”	8	97 dB	102 Hz – 2 kHz	46 Hz	0.2	52.2 liters	3.2 mm	✔	✔				✔	✔			KAPPA PRO-10A	page 27
	NEO	KAPPALITE 3010LF-4	page 51	1100 W	3”	4	91.6 dB	42 Hz – 1.4 kHz	40 Hz	0.25	53.5 liters	8.5 mm			✔	✔	✔		✔		✔	KAPPALITE 3010LF-4	page 51
		KAPPA PRO-10LF	page 28	1200 W	3”	8	91.6 dB	47 Hz – 2 kHz	39 Hz	0.28	72.97 liters	7.2 mm			✔	✔	✔		✔		✔	KAPPA PRO-10LF	page 28

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12”

	MODEL		PROGRAM POWER	VOICE COIL	Ω	SPL	FREQUENCY RANGE	FS	QT	VAS	XMAX	APPLICATION: MIDRANGE	APPLICATION: MIDBASS	APPLICATION: WOOFER	APPLICATION: SUBWOOFER	APPLICATION: BASS GUITAR	BOX TYPE: SEALED	BOX TYPE: VENTED	BOX TYPE: SCOOP LOADING	BOX TYPE: HORN LOADING	MODEL	
	ALPHA-12A	page 65	300 W	1.5“	8	95.6 dB	51 Hz – 4.3 kHz	49 Hz	0.77	121.5 liters	2.4 mm		✔	✔			✔	✔			ALPHA-12A	page 65
	BASSLITE S2012	page 148	300 W	2”	8	99 dB	49 Hz – 4.5 kHz	48 Hz	0.48	90.6 liters	5.2 mm		✔	✔		✔	✔	✔			BASSLITE S2012	page 148
	BETA-12LTA	page 75	450 W	2“	8	97.7 dB	48 Hz – 8 kHz	45 Hz	0.51	136.3 liters	3.2 mm	✔	✔	✔			✔	✔			BETA-12LTA	page 75
	BETA-12A-2	page 73	500 W	2“	8	98 dB	43 Hz – 3.8 kHz	47 Hz	0.46	120.1 liters	4.4 mm	✔	✔	✔		✔	✔	✔		✔	BETA-12A-2	page 73
	BETA-12CX	page 74	500 W	2“	8	97.3 dB	57 Hz – 4.6 kHz	47 Hz	0.48	120.94 liters	3.5 mm	✔	✔	✔			✔	✔			BETA-12CX	page 74
NEO	DELTALITE II 2512	page 47	500 W	2.5“	8	99.9 dB	58 Hz – 4.3 kHz	44 Hz	0.41	134.88 liters	4.9 mm		✔	✔		✔	✔	✔		✔	DELTALITE II 2512	page 47
	LEGEND BP122	page 147	500 W	2”	8	94.1 dB	35 Hz – 2.3 kHz	35 Hz	0.54	157.4 liters	6.2 mm		✔	✔	✔	✔	✔	✔			LEGEND BP122	page 147
	DELTA PRO 12-450A	page 21	750 W	2.5“	8	99.8 dB	44 Hz – 4 kHz	44 Hz	0.37	141.66 liters	5.1 mm		✔	✔				✔		✔	DELTA PRO 12-450A	page 21
	DELTA PRO 12-450-4	page 21	900 W	2.5“	4	97.4 dB	45 Hz – 3.8 kHz	45 Hz	0.39	137.73 liters	5.2 mm		✔	✔				✔		✔	DELTA PRO 12-450-4	page 21
	DELTA PRO-12A	page 20	800 W	2.5“	8	99.2 dB	52 Hz – 4.5 kHz	51 Hz	0.35	81.7 liters	4.6 mm	✔	✔	✔			✔	✔		✔	DELTA PRO-12A	page 20
	LAB12	page 38	800 W	2.5“	6	89.2 dB	25 Hz – 0.1 kHz	22 Hz	0.38	125.2 liters	13 mm				✔		✔	✔		✔	LAB12	page 38
	LAB12C	page 38	1000 W	2.5“	4	88.9 dB	25 Hz – 0.1 kHz	23 Hz	0.33	128.31 liters	13 mm				✔		✔	✔		✔	LAB12C	page 38
	DELTA-12A	page 78	800 W	2.5“	8 or 16	98.3 dB	54 Hz – 5 kHz	55 Hz	0.43	81.3 liters	2.4 mm	✔	✔	✔				✔			DELTA-12A	page 78
NEO	KAPPALITE 3012HO	page 52	800 W	3”	8	100.5 dB	51 Hz – 3.5 kHz	52 Hz	0.32	81.1 liters	6.2 mm	✔	✔	✔		✔	✔	✔		✔	KAPPALITE 3012HO	page 52
	KAPPA-12A	page 82	900 W	3”	8	99.3 dB	62 Hz – 4.2 kHz	45 Hz	0.27	112.1 liters	3.2 mm	✔	✔	✔				✔		✔	KAPPA-12A	page 82
NEO	KAPPALITE 3012LF	page 53	900 W	3”	8	95.5 dB	46 Hz – 2 kHz	37 Hz	0.32	106.65 liters	9.1 mm			✔	✔	✔	✔	✔		✔	KAPPALITE 3012LF	page 53
NEO	KAPPALITE 3012LF-4	page 53	1100 W	3”	4	92.9 dB	41 Hz – 2 kHz	36 Hz	0.31	107.37 liters	9.1 mm			✔	✔	✔	✔	✔		✔	KAPPALITE 3012LF-4	page 53
	KAPPA PRO-12A	page 29	1000 W	3”	8	97.1 dB	57 Hz – 2.8 kHz	37 Hz	0.24	121 liters	4.8 mm		✔	✔				✔	✔		KAPPA PRO-12A	page 29
	DELTA-12LFA	page 79	1000 W	2.5“	8 or 4	94.6 dB	44 Hz – 3 kHz	51 Hz	0.47	67.9 liters	4.8 mm		✔	✔	✔	✔	✔	✔		✔	DELTA-12LFA	page 79
	DEFINIMAX 4012HO	page 13	1200 W	4”	8	96.2 dB	48 Hz – 2.7 kHz	51 Hz	0.35	53.68 liters	6.2 mm		✔	✔	✔	✔	✔	✔	✔	✔	DEFINIMAX 4012HO	page 13
	LA12850	page 36	1600 W	4”	8	95.9 dB	63 Hz – 2.1 kHz	46 Hz	0.32	66.07 liters	5 mm		✔	✔				✔		✔	LA12850	page 36
	IMPERO 12A	page 24	2200 W	4”	8	93 dB	56 Hz – 3 kHz	43 Hz	0.32	70.2 liters	6.2 mm		✔	✔	✔	✔		✔	✔	✔	IMPERO 12A	page 24
	DEFINIMAX 4012ULF	page 14	2400 W	4”	8	90.7 dB	37 Hz – 0.2 kHz	40 Hz	0.31	41.3 liters	6.7 mm				✔			✔		✔	DEFINIMAX 4012ULF	page 14

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												APPLICATION					BOX TYPE					
	MODEL		PROGRAM POWER	VOICE COIL	Ω	SPL	FREQUENCY RANGE	FS	QT	VAS	XMAX	MIDRANGE	MIDBASS	WOOFER	SUBWOOFER	BASS GUITAR	SEALED	VENTED	SCOOP LOADING	HORN LOADING	MODEL	
15”	ALPHA-15A	page 66	400 W	1.5“	8	97 dB	46 Hz – 3.5 kHz	41 Hz	1.26	260 liters	3.8 mm	✔	✔	✔			✔	✔			ALPHA-15A	page 66
	BETA-15A	page 75	600 W	2“	8	98.2 dB	45 Hz – 3.7 kHz	35 Hz	0.58	334.6 liters	4 mm		✔	✔		✔	✔	✔			BETA-15A	page 75
NEO	DELTALITE II 2515	page 48	600 W	2.5“	8	99.2 dB	54 Hz – 3.7 kHz	42 Hz	0.38	204 liters	4.8 mm		✔	✔		✔	✔	✔			DELTALITE II 2515	page 48
	LEGEND CA154	page 150	600 W	2.5“	4	96.9 dB	45 Hz – 3.0 kHz	51 Hz	0.49	108.2 liters	5 mm		✔	✔		✔	✔	✔			LEGEND CA154	page 150
	LEGEND BP1525	page 149	700 W	2.5	8	96.6 dB	35 Hz – 2.1 kHz	32 Hz	0.48	397 liters	6.2 mm			✔	✔	✔	✔	✔			LEGEND BP1525	page 149
	DELTA PRO-15A	page 22	800 W	2.5“	8	101.6 dB	54 Hz – 4.2 kHz	42 Hz	0.4	243.5 liters	4.3 mm	✔	✔	✔			✔	✔		✔	DELTA PRO-15A	page 22
	DELTA-15A	page 80	800 W	2.5“	8 or 16	100 dB	48 Hz – 4 kHz	40 Hz	0.53	270.7 liters	2.7 mm		✔	✔			✔	✔			DELTA-15A	page 80
	KAPPA-15A	page 83	900 W	3“	8 or 4	100.5 dB	52 Hz – 2.3 kHz	33 Hz	0.32	321.3 liters	4 mm		✔	✔				✔		✔	KAPPA-15A	page 83
NEO	KAPPALITE 3015	page 54	900 W	3“	8	100.8 dB	40 Hz – 4 kHz	45 Hz	0.34	153 liters	5.9 mm		✔	✔		✔		✔		✔	KAPPALITE 3015	page 54
NEO	KAPPALITE 3015LF	page 55	900 W	3“	8	98.4 dB	40 Hz – 1.5 kHz	44 Hz	0.46	150.9 liters	9.6 mm			✔	✔	✔		✔		✔	KAPPALITE 3015LF	page 55
NEO	KAPPALITE 3015LF-4	page 55	1100 W	3“	4	96 dB	36 Hz – 1.3 kHz	47 Hz	0.47	118.58 liters	11 mm			✔	✔	✔		✔		✔	KAPPALITE 3015LF-4	page 55
	KAPPA PRO-15A	page 30	1000 W	3“	8	101 dB	46 Hz – 4 kHz	47 Hz	0.38	167.7 liters	3.2 mm		✔	✔		✔		✔	✔		KAPPA PRO-15A	page 30
	DELTA-15LFA	page 81	1000 W	2.5“	8	96 dB	42 Hz – 3.2 kHz	39 Hz	0.48	241 liters	4.8 mm		✔	✔	✔	✔	✔	✔			DELTA-15LFA	page 81
	DELTA-15LF-4	page 81	1200 W	2.5“	4	95 dB	40 Hz – 2.2 kHz	40 Hz	0.49	253.93 liters	4.8 mm		✔	✔	✔	✔	✔	✔			DELTA-15LF-4	page 81
	KAPPA PRO-15LF-2	page 31	1200 W	3“	8 or 4	97.8 dB	38 Hz – 1.8 kHz	35 Hz	0.3	198.8 liters	6.7 mm			✔	✔	✔		✔	✔	✔	KAPPA PRO-15LF-2	page 31
	LAB15	page 39	1200 W	3“	6	88.5 dB	20 Hz – 0.1 kHz	28 Hz	0.35	103.61 liters	11.8 mm				✔		✔	✔		✔	LAB15	page 39
	KAPPA-15LFA	page 84	1200 W	3“	8	99 dB	38 Hz – 2.7 kHz	39 Hz	0.38	159 liters	5.5 mm		✔	✔	✔	✔		✔		✔	KAPPA-15LFA	page 84
	LA15850	page 37	1600 W	4“	8	96.2 dB	45 Hz – 1.5 kHz	34 Hz	0.33	234.15 liters	4.1 mm		✔	✔	✔			✔	✔	✔	LA15850	page 37
	OMEGA PRO-15A	page 40	1600 W	4“	8	97.3 dB	51 Hz – 1.7 kHz	33 Hz	0.32	258.5 liters	4.8 mm			✔	✔	✔		✔	✔	✔	OMEGA PRO-15A	page 40
	DEFINIMAX 4015LF	page 15	2400 W	4“	8	94.7 dB	39 Hz – 1.2 kHz	40 Hz	0.52	111.97 liters	9 mm			✔	✔	✔	✔	✔	✔	✔	DEFINIMAX 4015LF	page 15
	DEFINIMAX 4015ULF	page 16	2400 W	4“	8	93 dB	35 Hz – 0.2 kHz	38 Hz	0.34	101.79 liters	7.3 mm				✔			✔		✔	DEFINIMAX 4015ULF	page 16
	IMPERO 15A	page 25	2400 W	4“	8 or 4	95.6 dB	46 Hz – 2 kHz	43 Hz	0.39	142.51 liters	7.3 mm			✔	✔	✔		✔	✔	✔	IMPERO 15A	page 25
	KILOMAX PRO 15A	page 33	2500 W	4“	8	95.5 dB	44 Hz – 0.8 kHz	41 Hz	0.39	154.5 liters	7.9 mm			✔	✔			✔	✔	✔	KILOMAX PRO 15A	page 33
18”	DELTA PRO-18A	page 23	1000 W	2.5“	8 or 4	96 dB	37 Hz – 0.2 kHz	28 Hz	0.32	493.2 liters	6.7 mm				✔			✔	✔	✔	DELTA PRO-18A	page 23
	SIGMA PRO 18A-2	page 43	1300 W	3“	8 or 4	99 dB	41 Hz – 2.4 kHz	28 Hz	0.29	441.2 liters	6.1 mm			✔	✔			✔			SIGMA PRO 18A-2	page 43
	KAPPA PRO 18LF	page 32	1600 W	3“	8	98 dB	38 Hz – 0.7 kHz	32 Hz	0.33	391.61 liters	8 mm			✔	✔	✔		✔		✔	KAPPA PRO 18LF	page 32
	OMEGA PRO-18A	page 41	1600 W	4“	8 or 4	97 dB	40 Hz – 0.8 kHz	25 Hz	0.31	548.7 liters	4.8 mm			✔	✔			✔	✔	✔	OMEGA PRO-18A	page 41
	DEFINIMAX 4018LF	page 17	2400 W	4“	8	94.9 dB	31 Hz – 0.2 kHz	30 Hz	0.34	254.71 liters	8.57 mm				✔			✔	✔	✔	DEFINIMAX 4018LF	page 17
	IMPERO 18A	page 26	2400 W	4“	8 or 4	95.9 dB	39 Hz – 0.8 kHz	33 Hz	0.43	317.02 liters	8 mm				✔	✔		✔	✔	✔	IMPERO 18A	page 26
	KILOMAX PRO 18A	page 34	2500 W	4“	8	95.8 dB	33 Hz – 0.3 kHz	32 Hz	0.47	331.5 liters	10 mm			✔	✔		✔	✔			KILOMAX PRO 18A	page 34

Live or in the studio, the Eminence

PROFESSIONAL SERIES

takes performance to a new level.

Arena arrays, on stage PAs, or late-night recording sessions – there's an Eminence speaker that'll make your hard work pay off in tonal perfection.

From dialing a sound in, to rocking it out, for years Eminence Professional Series loudspeakers have been the leading choice in audio applications worldwide.

We speak the language of audio engineers. And for us, the first word is aluminum. At the heart of our Professional Series is a cast aluminum Eminence chassis – lightweight and strong. It holds the magnetic field within the gap and keeps power compression lower by wicking away heat from the voice coil. Motor strength is greater while keeping the stray magnetic field lower. The chassis and all metal parts are coated with an epoxy-acrylic finish. It's done in-house so we control the e-coat process, letting us create a coating within 0.001" – the diameter of a human hair - of our specifications. This is critical for close tolerance transducer motor designs. Front or rear sealing gaskets allow for front or rear loading. Attention to detail. It's what makes the difference between average sound or stunning performance.

Our experience goes beyond how to make great speakers. We also know what kind of speakers you need. Heavy-duty subwoofers, low distortion woofers, and super high power woofers. Or lightweight neodymium transducers in truncated frames for line arrays. Each designed to work best where you need it most.

7 YEAR WARRANTY*

Attention to detail. It's what makes the difference between average sound or stunning performance.

*Warranty policy may vary outside of the continental United States and Canada. Check with your local distributor for warranty details.

PROFESSIONAL SERIES

DEFINIMAX™ 4012HO

High output, low distortion midbass or woofer with a broad frequency response. Recommended for pro audio in both sealed and vented enclosures.

- **1200 W** Program Power
- **12"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	✔
Subwoofer	✔	Horn Loading	✔
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	1200 W
Nominal Power	600 W
Resonance	51 Hz
Usable Frequency Range	48 Hz – 2.7 kHz
Sensitivity*	96.2 dB
Magnet Weight	109 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	4", 102 mm

THIELE & SMALL PARAMETERS

Fs	51 Hz
Re	5.52 Ω
Le	0.95 mH
Qms	11.03
Qes	0.36
Qts	0.35
Vas	1.9 cu.ft., 53.68 liters
Vd	338.2 cc
Cms	0.13 mm/N
BL	19.56 T-M
Mms	78 grams
EBP	142
Xmax	6.2 mm
Sd	545.4 cm2
Xlim	11.2 mm

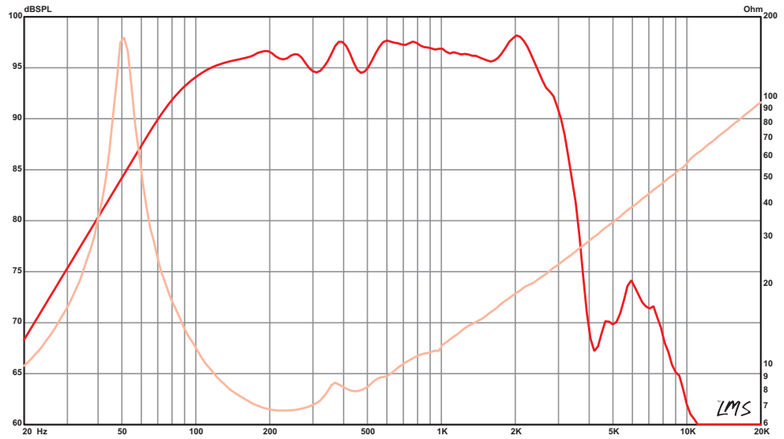
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	25.49–76.46 liters, 0.9–2.7 cu.ft.
Vented	33.98–99.11 liters, 1.2–3.5 cu.ft.
Driver Volume Displaced	0.106 cu.ft., 3 liters
Overall Diameter	12.38", 314.5 mm
Baffle Hole Diameter	11.06", 280.9 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.27", 6.9 mm
Mounting Holes B.C.D.	11.69", 296.9 mm
Depth	5.32", 135.1 mm
Net Weight	22.5 lbs , 10.21 kg
Shipping Weight	24.8 lbs , 11.25 kg

MATERIALS OF CONSTRUCTION

Edge wound copper voice coil
Kapton former
Ferrite magnet
Undercut with aluminum shorting ring and Core Periphery Ventilation
Die-cast aluminum basket
Water resistant paper cone
Cloth cone edge
Water resistant treated paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PROFESSIONAL SERIES

DEFINIMAX™ 4012ULF

A high-power, ultra-low frequency enhanced version of the popular Definimax 4012HO. Perfect for horn loading, or in micro-sized vented subwoofers for lots of clean punch and deep lows.

- **2400 W** Program Power
- **12"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	
Midbass		Vented Box	✔
Woofer		Scoop Loading	
Subwoofer	✔	Horn Loading	✔
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	2400 W
Nominal Power	1200 W
Resonance	40 Hz
Usable Frequency Range	37 Hz – 0.2 kHz
Sensitivity*	90.7 dB
Magnet Weight	109 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	4", 102 mm

THIELE & SMALL PARAMETERS

Fs	40 Hz
Re	6.2 Ω
Le	4.32 mH
Qms	12.13
Qes	0.32
Qts	0.31
Vas	1.46 cu.ft., 41.3 liters
Vd	365.4 cc
Cms	0.1 mm/N
BL	27.38 T-M
Mms	153 grams
EBP	126
Xmax	6.7 mm
Sd	545.4 cm2
Xlim	15.5 mm

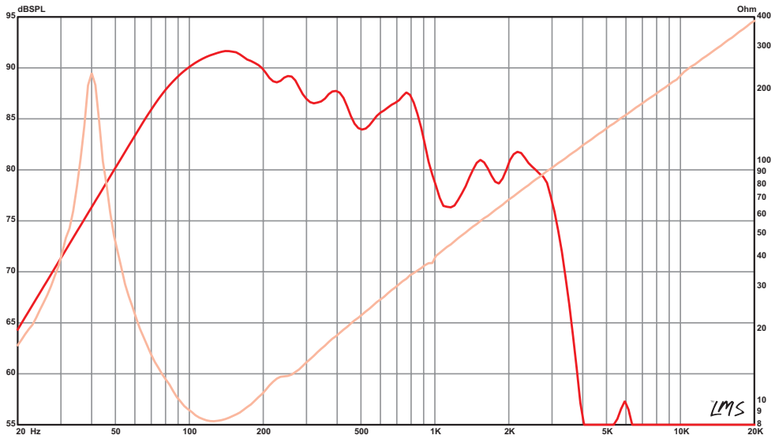
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	42.48–113.27 liters, 1.5–4 cu.ft.
Driver Volume Displaced	0.106 cu.ft., 3 liters
Overall Diameter	12.38", 314.5 mm
Baffle Hole Diameter	11.07", 281.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.27", 6.9 mm
Mounting Holes B.C.D.	11.69", 296.9 mm
Depth	5.32", 135.1 mm
Net Weight	22.3 lbs , 10.12 kg
Shipping Weight	24.6 lbs , 11.16 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Kapton former
- Ferrite magnet
- Undercut with aluminum shorting ring and Core Periphery Ventilation
- Die-cast aluminum basket
- Water resistant paper cone
- Cloth cone edge
- Water resistant treated paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PROFESSIONAL SERIES

DEFINIMAX™ 4015LF

Recommended for professional audio and bass guitar as a low distortion woofer or subwoofer in vented enclosures. Also works in a sealed enclosure for bass guitar.

- **2400 W** Program Power
- **15"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	✔
Midbass		Vented Box	✔
Woofer	✔	Scoop Loading	✔
Subwoofer	✔	Horn Loading	✔
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	2400 W
Nominal Power	1200 W
Resonance	39 Hz – 1.2 kHz
Usable Frequency Range	94.7 dB
Sensitivity*	109 oz.
Magnet Weight	0.375", 9.5 mm
Gap Height	4", 102 mm
Voice Coil Diameter	

THIELE & SMALL PARAMETERS

Fs	40 Hz
Re	5.18 Ω
Le	1.48 mH
Qms	11.94
Qes	0.54
Qts	0.52
Vas	3.95 cu.ft., 111.97 liters
Vd	770.7 cc
Cms	0.11 mm/N
BL	18.14 T-M
Mms	137 grams
EBP	74
Xmax	9 mm
Sd	856.3 cm2
Xlim	15.5 mm

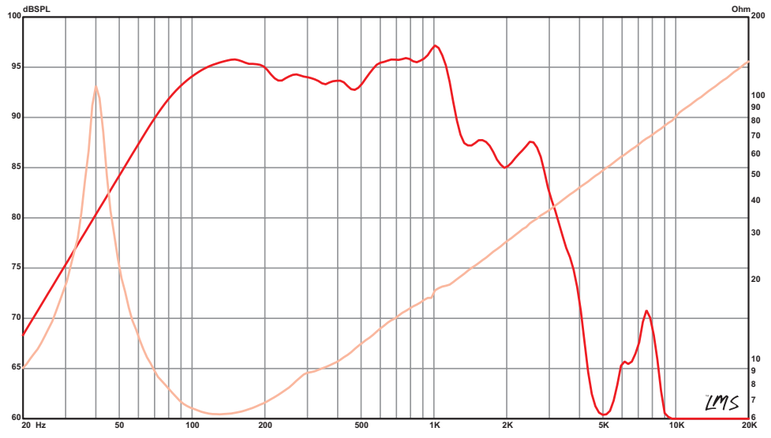
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	43.89–99.11 liters, 1.55–3.5 cu.ft.
Vented	67.96–205.3 liters, 2.4–7.25 cu.ft.
Driver Volume Displaced	0.152 cu.ft., 4.31 liters
Overall Diameter	15.21", 386.3 mm
Baffle Hole Diameter	14", 355.6 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	14.56", 369.8 mm
Depth	6.56", 166.6 mm
Net Weight	23.7 lbs , 10.75 kg
Shipping Weight	26 lbs , 11.79 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Undercut with aluminum shorting ring and Core Periphery Ventilation
- Die-cast aluminum basket
- Water resistant paper cone
- Cloth cone edge
- Water resistant treated paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PROFESSIONAL SERIES

DEFINIMAX™ 4015ULF-8

A high-power, ultra-low frequency enhanced version of the popular Definimax 4015LF. Perfect for horn loading, or in small to medium-sized vented subwoofers for lots of clean punch and deep lows.

- **2400 W** Program Power
- **15"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	
Midbass		Vented Box	✔
Woofer		Scoop Loading	
Subwoofer	✔	Horn Loading	✔
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	2400 W
Nominal Power	1200 W
Resonance	38 Hz
Usable Frequency Range	35 Hz – 0.2 kHz
Sensitivity*	93 dB
Magnet Weight	109 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	4", 102 mm

THIELE & SMALL PARAMETERS

Fs	38 Hz
Re	6.19 Ω
Le	4.43 mH
Qms	10.27
Qes	0.35
Qts	0.34
Vas	3.59 cu.ft., 101.79 liters
Vd	625 cc
Cms	0.1 mm/N
BL	26.79 T-M
Mms	173 grams
EBP	107
Xmax	7.3 mm
Sd	856.3 cm2
Xlim	15.5 mm

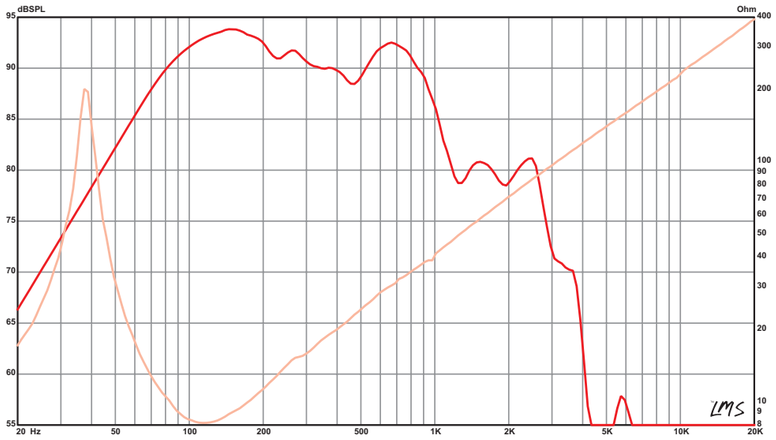
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	48.14–148.66 liters, 1.7–5.25 cu.ft.
Driver Volume Displaced	0.152 cu.ft., 4.31 liters
Overall Diameter	15.21", 386.3 mm
Baffle Hole Diameter	14", 355.6 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	14.56", 369.8 mm
Depth	6.56", 166.6 mm
Net Weight	23.7 lbs , 10.75 kg
Shipping Weight	26 lbs , 11.79 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Kapton former
- Ferrite magnet
- Undercut with aluminum shorting ring and Core Periphery Ventilation
- Die-cast aluminum basket
- Water resistant paper cone
- Cloth cone edge
- Water resistant treated paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PROFESSIONAL SERIES

DEFINIMAX™ 4018LF

Recommended for professional audio and bass as a high power, low distortion subwoofer in single or multi-driver designs.

- **2400 W** Program Power
- **18"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	
Midbass		Vented Box	✔
Woofer		Scoop Loading	✔
Subwoofer	✔	Horn Loading	✔
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	18", 457 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	2400 W
Nominal Power	1200 W
Resonance	30 Hz
Usable Frequency Range	31 Hz – 0.2 kHz
Sensitivity*	94.9 dB
Magnet Weight	109 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	4", 102 mm

THIELE & SMALL PARAMETERS

Fs	30 Hz
Re	6.1 Ω
Le	4.54 mH
Qms	11.95
Qes	0.35
Qts	0.34
Vas	9 cu.ft., 254.71 liters
Vd	1018.1 cc
Cms	0.13 mm/N
BL	26.75 T-M
Mms	217 grams
EBP	86
Xmax	8.57 mm
Sd	1188 cm2
Xlim	15.9 mm

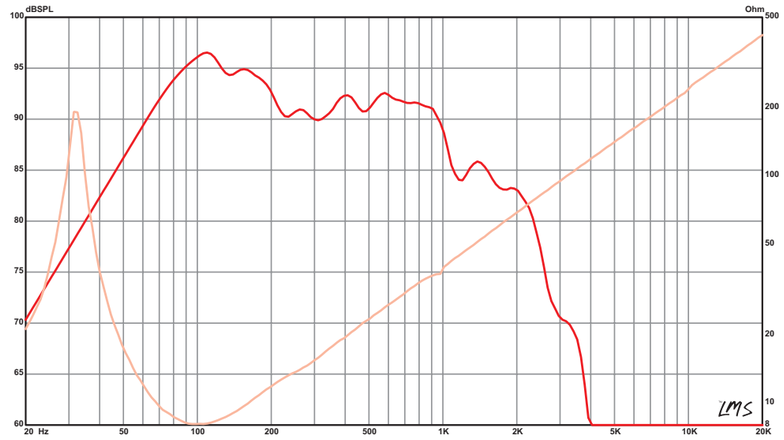
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	99.11–226.54 liters, 3.5–8 cu.ft.
Driver Volume Displaced	0.234 cu.ft., 6.62 liters
Overall Diameter	18", 457.2 mm
Baffle Hole Diameter	16.56", 420.6 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	17.25", 438.2 mm
Depth	8.13", 206.5 mm
Net Weight	24 lbs , 10.89 kg
Shipping Weight	26 lbs , 11.79 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Undercut with aluminum shorting ring and Core Periphery Ventilation
- Die-cast aluminum basket
- Water resistant paper cone
- Cloth cone edge
- Water resistant treated paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

DELTA PRO-8A

High power, high sensitivity midbass and midrange driver for pro audio or MI. Truncated cast aluminum heat sink style basket is great for stacking in a line array.

- **450 W** Program Power
- **8"** Nominal Diameter
- **8 Ω**

APPLICATION

Midrange	✔
Midbass	✔
Woofer	
Subwoofer	
Bass Guitar	

ENCLOSURE

Sealed Box	✔
Vented Box	✔
Scoop Loading	
Horn Loading	✔

SPECIFICATION

Nominal Basket Diameter	8", 203 mm
Nominal Impedance*	8 or 16 Ω
Power Rating*	
Program Power	450 W
Nominal Power	225 W
Resonance	69 Hz
Usable Frequency Range	100 Hz – 3 kHz
Sensitivity*	97.8 dB
Magnet Weight	59 oz.
Gap Height	0.31", 7.9 mm
Voice Coil Diameter	2", 51 mm

THIELE & SMALL PARAMETERS

Fs	69 Hz
Re	5.4 Ω
Le	0.82 mH
Qms	6.43
Qes	0.22
Qts	0.22
Vas	0.65 cu.ft., 18.32 liters
Vd	66 cc
Cms	0.28 mm/N
BL	14.1 T-M
Mms	19 grams
EBP	307
Xmax	3 mm
Sd	218.2 cm2
Xlim	7 mm

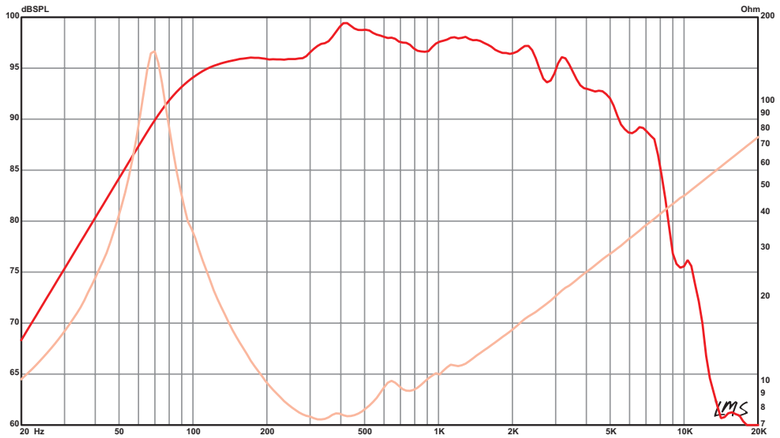
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	8–16 liters, 0.3–0.6 cu.ft.
Vented	10–16 liters, 0.4–0.6 cu.ft.
Driver Volume Displaced	0.037 cu.ft., 1.04 liters
Major Diameter	9.36", 237.7 mm
Flat to Flat Diameter	8.02", 203.7 mm
Baffle Hole Diameter	7.36", 186.9 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	8.6", 218.4 mm
Depth	3.75", 95.3 mm
Net Weight	10 lbs , 4.54 kg
Shipping Weight	11 lbs , 4.99 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented and extended core
- Die-cast aluminum basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

DELTA PRO 10MR-8

A highly efficient 10" cast frame midrange driver for use in professional audio and car audio applications.

- **400 W** Program Power
- **10"** Nominal Diameter
- **8 Ω**

APPLICATION

Midrange	✔
Midbass	✔
Woofer	
Subwoofer	
Bass Guitar	

ENCLOSURE

Sealed Box	✔
Vented Box	
Scoop Loading	
Horn Loading	✔

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	400 W
Nominal Power	200 W
Resonance	53 Hz
Usable Frequency Range	52.7 Hz – 4.4 kHz
Sensitivity*	99.8 dB
Magnet Weight	80 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	2.5", 64 mm

THIELE & SMALL PARAMETERS

Fs	53 Hz
Re	6.55 Ω
Le	0.42 mH
Qms	6.77
Qes	0.24
Qts	0.23
Vas	2.17 cu.ft., 61.37 liters
Vd	46.2 cc
Cms	0.35 mm/N
BL	15.41 T-M
Mms	26 grams
EBP	220
Xmax	1.3 mm
Sd	355.4 cm2
Xlim	4.8 mm

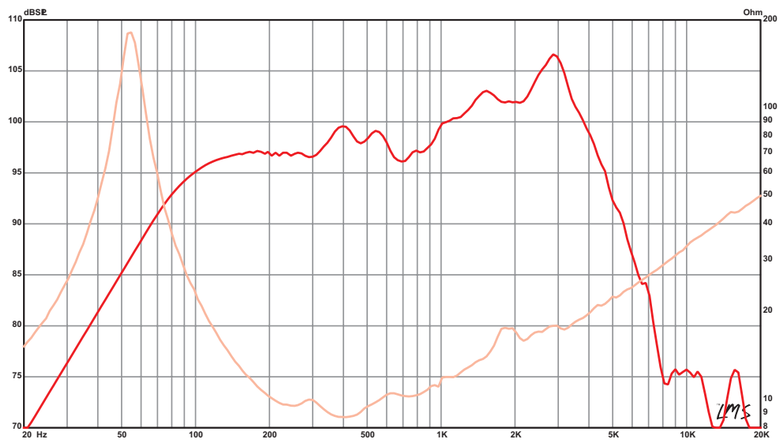
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	14.16–42.48 liters, 0.5–1.5 cu.ft.
Vented	N/A
Driver Volume Displaced	0.061 cu.ft., 1.72 liters
Overall Diameter	10.25", 260.4 mm
Baffle Hole Diameter	9.13", 231.9 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7 mm
Mounting Holes B.C.D.	9.75", 247.6 mm
Depth	4.46", 113.3 mm
Net Weight	14.6 lbs , 6.62 kg
Shipping Weight	16 lbs , 7.26 kg

MATERIALS OF CONSTRUCTION

- Aluminum voice coil
- Polyimide former
- Ferrite magnet
- Vented core
- Die-cast aluminum basket
- Paper cone
- Cloth cone edge
- Paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PROFESSIONAL SERIES

DELTA PRO-12A

Recommended for professional audio in both sealed and vented enclosures. Ideal for full-range, mid/hi, and monitor wedges. Super clean and highly sensitive, it's also a popular choice for guitar.

- **800 W** Program Power
- **12"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	✔
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	800 W
Nominal Power	400 W
Resonance	51 Hz
Usable Frequency Range	52 Hz – 4.5 kHz
Sensitivity*	99.2 dB
Magnet Weight	80 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	2.5", 64 mm

THIELE & SMALL PARAMETERS

Fs	51 Hz
Re	5.71 Ω
Le	0.84 mH
Qms	7.56
Qes	0.37
Qts	0.35
Vas	2.89 cu.ft., 81.7 liters
Vd	242 cc
Cms	0.21 mm/N
BL	15.3 T-M
Mms	48 grams
EBP	138
Xmax	4.6 mm
Sd	532.4 cm2
Xlim	13.7 mm

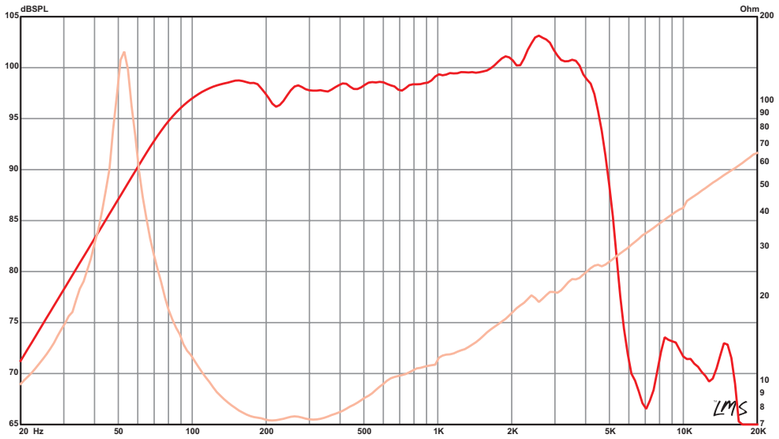
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	28–35 liters, 1–1.25 cu.ft.
Vented	31–91 liters, 1.1–3.2 cu.ft.
Driver Volume Displaced	0.09 cu.ft., 2.55 liters
Overall Diameter	12.38", 314.5 mm
Baffle Hole Diameter	11.07", 281.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.27", 6.9 mm
Mounting Holes B.C.D.	11.69", 296.9 mm
Depth	6.22", 158 mm
Net Weight	16.3 lbs , 7.39 kg
Shipping Weight	18 lbs , 8.16 kg

MATERIALS OF CONSTRUCTION

- Aluminum voice coil
- Polyimide former
- Ferrite magnet
- Vented and extended core
- Die-cast aluminum basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PROFESSIONAL SERIES

DELTA PRO 12-450A

The Delta Pro 12-450 is a lighter weight version of the Delta Pro 12. Recommended as a woofer or midbass in vented enclosures. Also makes a perfect replacement in many portable PA cabinets.

- **750 W** Program Power
- **12"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	✔
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	750 W
Nominal Power	375 W
Resonance	44 Hz
Usable Frequency Range	44 Hz – 4 kHz
Sensitivity*	99.8 dB
Magnet Weight	56 oz.
Gap Height	0.313", 7.9 mm
Voice Coil Diameter	2.5", 64 mm

THIELE & SMALL PARAMETERS

Fs	44 Hz
Re	5.04 Ω
Le	0.54 mH
Qms	7.59
Qes	0.39
Qts	0.37
Vas	5 cu.ft., 141.66 liters
Vd	271.5 cc
Cms	0.36 mm/N
BL	11.47 T-M
Mms	36 grams
EBP	115
Xmax	5.1 mm
Sd	532.4 cm2
Xlim	13.7 mm

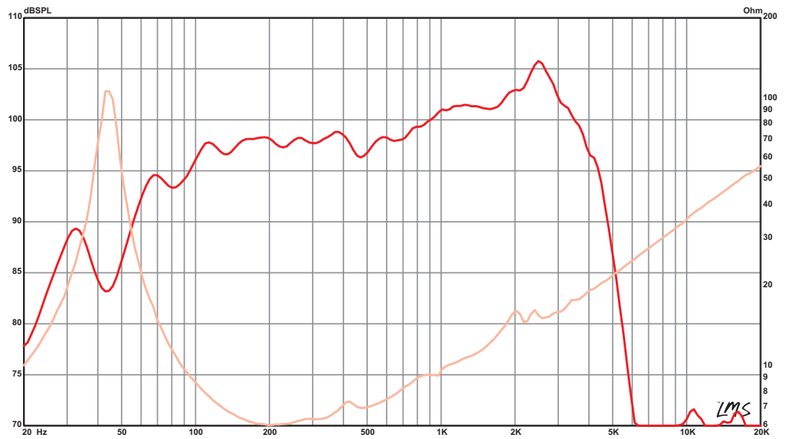
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	36.81–93.45 liters, 1.3–3.5 cu.ft.
Driver Volume Displaced	0.079 cu.ft., 2.25 liters
Overall Diameter	12.38", 314.5 mm
Baffle Hole Diameter	11.07", 281.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.27", 6.9 mm
Mounting Holes B.C.D.	11.57", 293.9 mm
Depth	5.5", 139.7 mm
Net Weight	11.7 lbs , 5.31 kg
Shipping Weight	14 lbs , 6.35 kg

MATERIALS OF CONSTRUCTION

- Aluminum voice coil
- Polyimide former
- Ferrite magnet
- Vented and extended core
- Die-cast aluminum basket
- Paper cone
- Cloth cone edge
- Paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PROFESSIONAL SERIES

DELTA PRO-15A

Highly sensitive midbass with full range capability. Recommended for professional audio in both sealed and vented enclosures. Ideal for full-range, mid/hi, and monitor wedges.

- **800 W** Program Power
- **15"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	✔
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	800 W
Nominal Power	400 W
Resonance	42 Hz
Usable Frequency Range	54 Hz – 4.2 kHz
Sensitivity*	101.6 dB
Magnet Weight	80 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	2.5", 64 mm

THIELE & SMALL PARAMETERS

Fs	42 Hz
Re	5.71 Ω
Le	0.83 mH
Qms	4.73
Qes	0.44
Qts	0.4
Vas	8.6 cu.ft., 243.5 liters
Vd	368 cc
Cms	0.24 mm/N
BL	14.5 T-M
Mms	61 grams
EBP	95
Xmax	4.3 mm
Sd	856.3 cm2
Xlim	13.7 mm

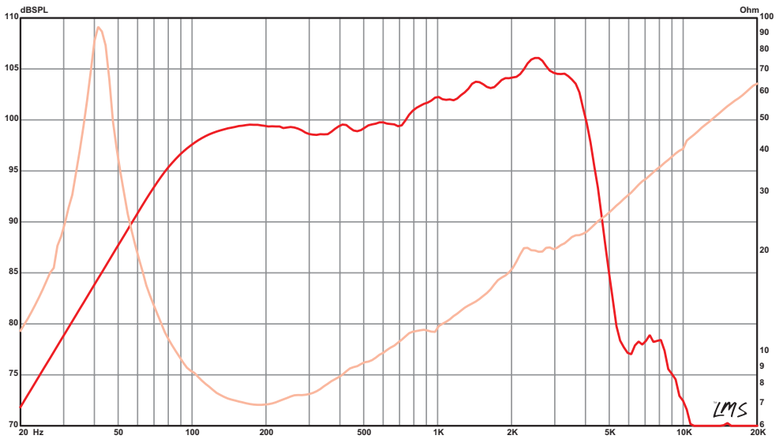
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	28–42.5 liters, 1–1.5 cu.ft.
Vented	57–133 liters, 2–4.7 cu.ft.
Driver Volume Displaced	0.138 cu.ft., 3.92 liters
Overall Diameter	15.32", 389.1 mm
Baffle Hole Diameter	14", 355.6 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	14.56", 369.8 mm
Depth	6.06", 153.9 mm
Net Weight	17 lbs , 7.71 kg
Shipping Weight	19.1 lbs , 8.66 kg

MATERIALS OF CONSTRUCTION

- Aluminum voice coil
- Polyimide former
- Ferrite magnet
- Vented and extended core
- Die-cast aluminum basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PROFESSIONAL SERIES

DELTA PRO-18A

Long throw subwoofer for very small vented boxes. Over-sized top plate and large pole vent help keep the coil cool.

- **1000 W** Program Power
- **18"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	
Midbass		Vented Box	✔
Woofer		Scoop Loading	✔
Subwoofer	✔	Horn Loading	✔
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	18", 457 mm
Nominal Impedance*	8 or 4 Ω
Power Rating*	
Program Power	1000 W
Nominal Power	500 W
Resonance	28 Hz
Usable Frequency Range	37 Hz – 0.2 kHz
Sensitivity*	96 dB
Magnet Weight	67 oz.
Gap Height	0.38", 9.7 mm
Voice Coil Diameter	2.5", 64 mm

THIELE & SMALL PARAMETERS

Fs	28 Hz
Re	5.3 Ω
Le	3.43 mH
Qms	10.38
Qes	0.33
Qts	0.32
Vas	17.42 cu.ft., 493.2 liters
Vd	796 cc
Cms	0.25 mm/N
BL	18.9 T-M
Mms	128 grams
EBP	84
Xmax	6.7 mm
Sd	1188 cm2
Xlim	15 mm

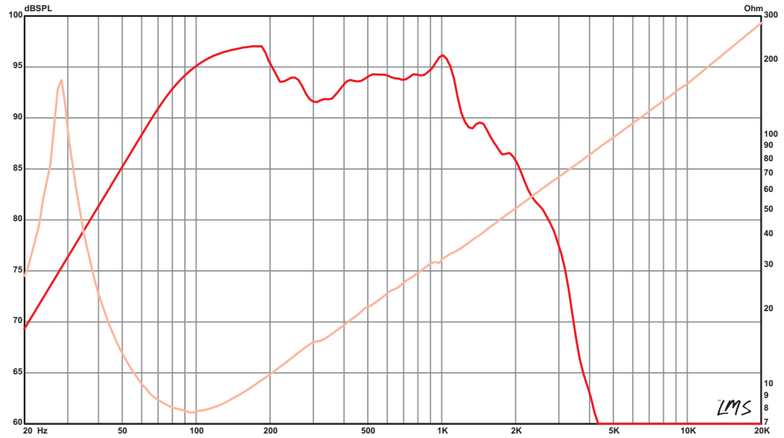
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	85–297 liters, 3–10.5 cu.ft.
Driver Volume Displaced	0.212 cu.ft., 6.01 liters
Overall Diameter	18", 457.2 mm
Baffle Hole Diameter	16.57", 420.9 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	17.25", 438.2 mm
Depth	8.13", 206.5 mm
Net Weight	17 lbs , 7.71 kg
Shipping Weight	20.5 lbs , 9.3 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented and extended core
- Die-cast aluminum basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

IMPERO™ 12A

High power driver recommended for pro audio in vented enclosures. Ideal for two-way top boxes, full-range two-way boxes, bass guitar boxes, and small subwoofers.

- **2200 W** Program Power
- **12"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	✔
Subwoofer	✔	Horn Loading	✔
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	2200 W
Nominal Power	1100 W
Resonance	43 Hz
Usable Frequency Range	56 Hz – 3 kHz
Sensitivity*	93 dB
Magnet Weight	109 oz.
Gap Height	0.5", 12.7 mm
Voice Coil Diameter	4", 102 mm

THIELE & SMALL PARAMETERS

Fs	43 Hz
Re	5.58 Ω
Le	1.46 mH
Qms	13.84
Qes	0.33
Qts	0.32
Vas	2.48 cu.ft., 70.2 liters
Vd	339.4 cc
Cms	0.17 mm/N
BL	19.49 T-M
Mms	83 grams
EBP	130
Xmax	6.22 mm
Sd	545.4 cm2
Xlim	12.5 mm

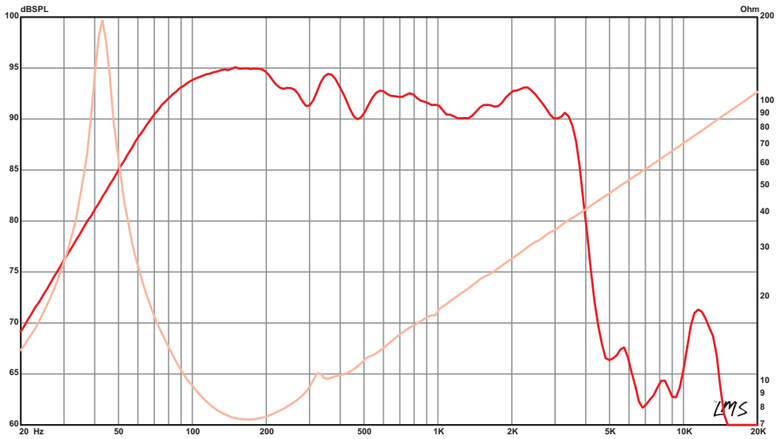
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	33.98–118.93 liters,
	1.2–4.2 cu.ft.
Driver Volume Displaced	0.106 cu.ft., 3 liters
Overall Diameter	12.38", 314.5 mm
Baffle Hole Diameter	11.06", 280.9 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	11.69", 296.9 mm
Depth	6.13", 155.7 mm
Net Weight	24.2 lbs , 10.98 kg
Shipping Weight	26.6 lbs , 12.07 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Fiberglass former
- Ferrite magnet
- Bumped Vented Extended core
- Die-cast aluminum basket
- Water resistant paper cone
- Treated cloth cone edge
- Water resistant treated paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

IMPERO™ 15A

High power woofer recommended for pro audio in vented enclosures. Suited for two-way top boxes, full-range two-way and three-way boxes, bass guitar boxes, and small subwoofers.

- **2400 W** Program Power
- **15"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	
Midbass		Vented Box	✔
Woofer	✔	Scoop Loading	✔
Subwoofer	✔	Horn Loading	✔
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 oir 4 Ω
Power Rating*	
Program Power	2400 W
Nominal Power	1200 W
Resonance	43 Hz
Usable Frequency Range	46 Hz – 2 kHz
Sensitivity*	95.6 dB
Magnet Weight	109 oz.
Gap Height	0.5", 12.7 mm
Voice Coil Diameter	4", 102 mm

THIELE & SMALL PARAMETERS

Fs	43 Hz
Re	5.42 Ω
Le	1.47 mH
Qms	15.33
Qes	0.4
Qts	0.39
Vas	5.03 cu.ft., 142.51 liters
Vd	625.1 cc
Cms	0.14 mm/N
BL	19.18 T-M
Mms	101 grams
EBP	107
Xmax	7.3 mm
Sd	856.3 cm2
Xlim	15.4 mm

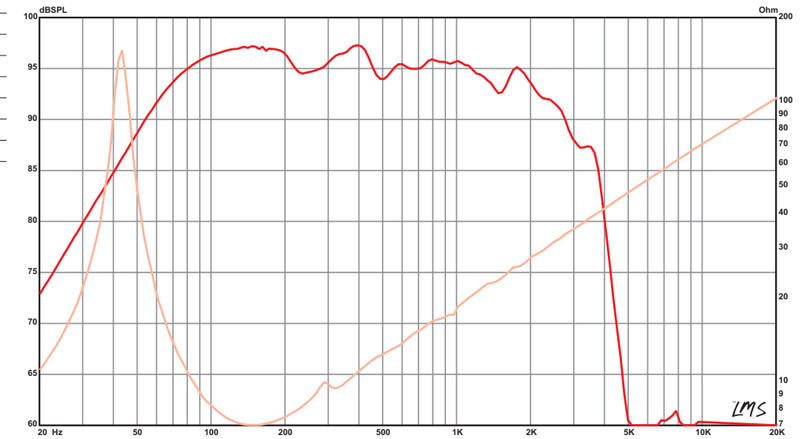
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	53.8–184.06 liters,
	1.9–6.5 cu.ft.
Driver Volume Displaced	0.155 cu.ft., 4.4 liters
Overall Diameter	15.22", 386.6 mm
Baffle Hole Diameter	13.99", 355.4 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	14.56", 369.8 mm
Depth	6.56", 166.6 mm
Net Weight	24.8 lbs , 11.25 kg
Shipping Weight	27.5 lbs , 12.47 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Fiberglass former
- Ferrite magnet
- Bumped Vented Extended core
- Die-cast aluminum basket
- Water resistant paper cone
- Treated cloth cone edge
- Water resistant treated paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PROFESSIONAL SERIES

IMPERO™ 18A

High power driver recommended for pro audio in vented enclosures. Suited for full-range three-way boxes, bass guitar boxes, and small subwoofers.

- **2400 W** Program Power
- **18"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	
Midbass		Vented Box	✔
Woofer		Scoop Loading	✔
Subwoofer	✔	Horn Loading	✔
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	18", 457 mm
Nominal Impedance*	8 or 4 Ω
Power Rating*	
Program Power	2400 W
Nominal Power	1200 W
Resonance	33 Hz
Usable Frequency Range	39 Hz – 0.8 kHz
Sensitivity*	95.9 dB
Magnet Weight	109 oz.
Gap Height	0.5", 12.7 mm
Voice Coil Diameter	4", 102 mm

THIELE & SMALL PARAMETERS

Fs	33 Hz
Re	5.41 Ω
Le	1.47 mH
Qms	14.02
Qes	0.44
Qts	0.43
Vas	11.2 cu.ft., 317.02 liters
Vd	927.2 cc
Cms	0.17 mm/N
BL	18.9 T-M
Mms	140 grams
EBP	75
Xmax	8 mm
Sd	1159 cm2
Xlim	20.2 mm

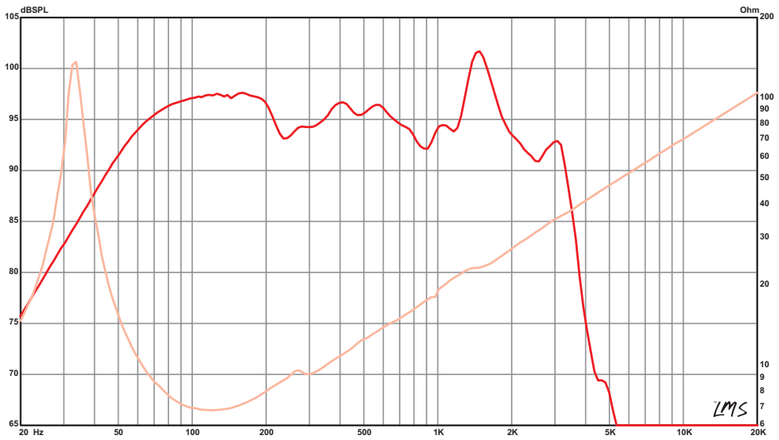
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	113.27–277.51 liters, 4–9.8 cu.ft.
Driver Volume Displaced	0.237 cu.ft., 6.7 liters
Overall Diameter	18", 457.2 mm
Baffle Hole Diameter	16.56", 420.6 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	17.25", 438.2 mm
Depth	8.31", 211.1 mm
Net Weight	27.3 lbs , 12.38 kg
Shipping Weight	30.8 lbs , 13.97 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Fiberglass former
Ferrite magnet
Bumped Vented Extended core
Die-cast aluminum basket
Water resistant paper cone
Treated cloth cone edge
Water resistant treated paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PROFESSIONAL SERIES

KAPPA PRO-10A

Recommended for pro audio in a sealed midrange, vented midbass, or horn loaded midrange enclosure.

- **1000 W** Program Power
- **10"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer		Scoop Loading	
Subwoofer		Horn Loading	
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	1000 W
Nominal Power	500 W
Resonance	46 Hz
Usable Frequency Range	102 Hz – 2 kHz
Sensitivity*	97 dB
Magnet Weight	80 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	3", 76 mm

THIELE & SMALL PARAMETERS

Fs	46 Hz
Re	6.5 Ω
Le	1.15 mH
Qms	10.1
Qes	0.2
Qts	0.2
Vas	1.84 cu.ft., 52.2 liters
Vd	110 cc
Cms	0.31 mm/N
BL	18.8 T-M
Mms	38 grams
EBP	230
Xmax	3.2 mm
Sd	344.9 cm2
Xlim	10.9 mm

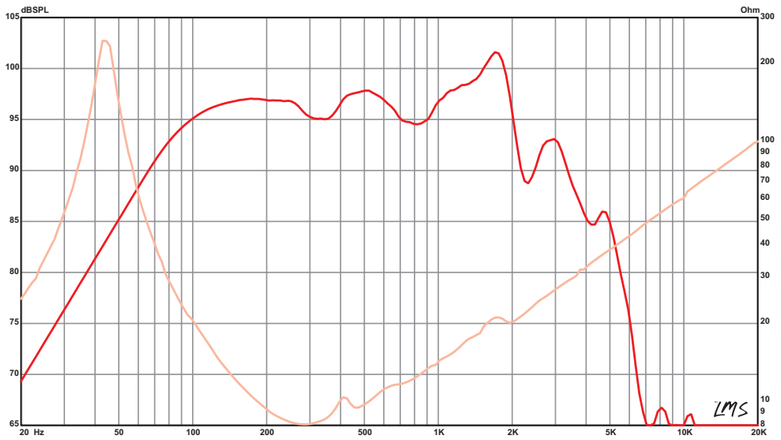
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	7–9.9 liters, 0.25–0.35 cu.ft.
Vented	12–28 liters, 0.43–1 cu.ft.
Driver Volume Displaced	0.061 cu.ft., 1.72 liters
Overall Diameter	10.25", 260.4 mm
Baffle Hole Diameter	9.13", 231.9 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.27", 6.9 mm
Mounting Holes B.C.D.	9.75", 247.7 mm
Depth	4.33", 110 mm
Net Weight	15.3 lbs , 6.94 kg
Shipping Weight	16.4 lbs , 7.44 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Polyimide former
Ferrite magnet
Vented core
Die-cast aluminum basket
Paper cone
Cloth cone edge
Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PROFESSIONAL SERIES

KAPPA PRO-10LF

A high power, low frequency enhanced version of the Kappa Pro 10. Excels in very compact vented or horn loaded bass guitar or subwoofer enclosures.

- **1200 W** Program Power
- **10"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	
Midbass		Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer	✔	Horn Loading	✔
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	1200 W
Nominal Power	600 W
Resonance	39 Hz
Usable Frequency Range	47 Hz – 2 kHz
Sensitivity*	91.6 dB
Magnet Weight	105 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	3", 76 mm

THIELE & SMALL PARAMETERS

Fs	39 Hz
Re	5.47 Ω
Le	0.97 mH
Qms	8.97
Qes	0.29
Qts	0.28
Vas	2.58 cu.ft., 72.97 liters
Vd	271.4 cc
Cms	0.37 mm/N
BL	14.46 T-M
Mms	46 grams
EBP	132
Xmax	7.2 mm
Sd	376.9 cm2
Xlim	16 mm

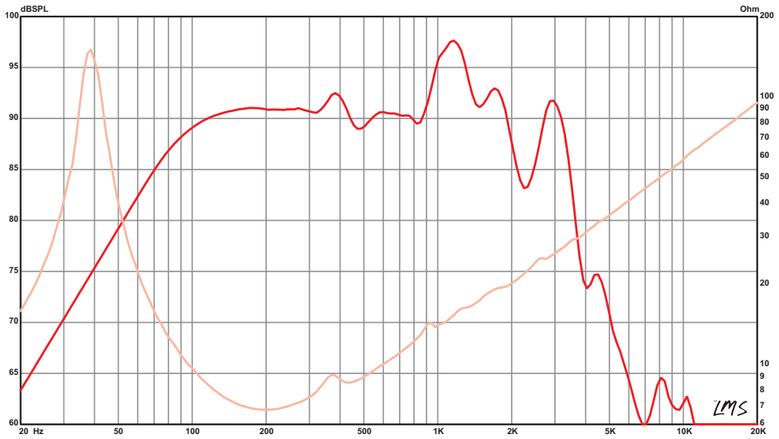
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	25.49–49.55 liters, 0.9–1.75 cu.ft.
Driver Volume Displaced	0.067 cu.ft., 1.9 liters
Overall Diameter	10.27", 260.9 mm
Baffle Hole Diameter	9.14", 232.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	9.75", 247.7 mm
Depth	5", 127 mm
Net Weight	17.2 lbs , 7.8 kg
Shipping Weight	18.35 lbs , 8.32 kg

MATERIALS OF CONSTRUCTION

- Aluminum voice coil
- Polyimide former
- Ferrite magnet
- Vented and extended core
- Die-cast aluminum basket
- Treated paper cone
- Paper cone edge
- Treated Paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PROFESSIONAL SERIES

KAPPA PRO-12A

High efficiency pro audio driver for vented midbass, and vented bass enclosures.

- **1000 W** Program Power
- **12"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	✔
Subwoofer		Horn Loading	
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	1000 W
Nominal Power	500 W
Resonance	37 Hz
Usable Frequency Range	57 Hz – 2.8 kHz
Sensitivity*	97.1 dB
Magnet Weight	80 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	3", 76 mm

THIELE & SMALL PARAMETERS

Fs	37 Hz
Re	5.46 Ω
Le	1.22 mH
Qms	6.93
Qes	0.25
Qts	0.24
Vas	4.27 cu.ft., 121 liters
Vd	249 cc
Cms	0.32 mm/N
BL	17.3 T-M
Mms	59 grams
EBP	148
Xmax	4.8 mm
Sd	519.5 cm2
Xlim	14.8 mm

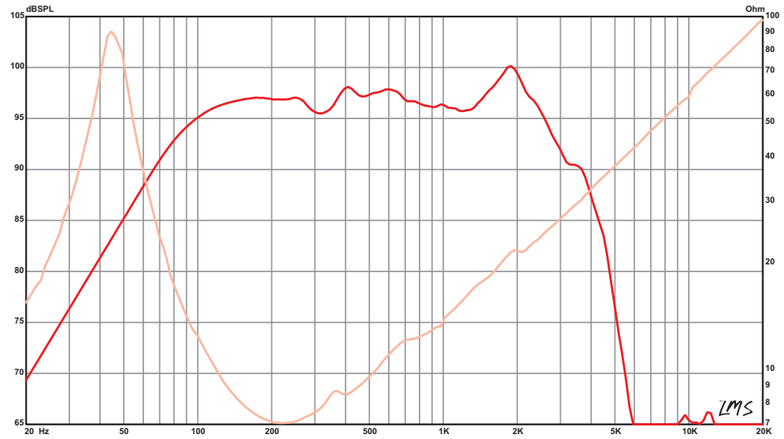
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	17–34 liters, 0.6–1.2 cu.ft.
Driver Volume Displaced	0.09 cu.ft., 2.55 liters
Overall Diameter	12.38", 314.5 mm
Baffle Hole Diameter	11.07", 281.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.27", 6.9 mm
Mounting Holes B.C.D.	11.69", 296.9 mm
Depth	6.22", 158 mm
Net Weight	16.6 lbs , 7.53 kg
Shipping Weight	18.4 lbs , 8.35 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented core
- Die-cast aluminum basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PROFESSIONAL SERIES

KAPPA PRO-15A

Recommended for professional audio in a vented midbass or bass enclosure. Also suitable for bass guitar.

- **1000 W** Program Power
- **15"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	✔
Subwoofer		Horn Loading	
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	1000 W
Nominal Power	500 W
Resonance	47 Hz
Usable Frequency Range	46 Hz – 4 kHz
Sensitivity*	101 dB
Magnet Weight	80 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	3", 76 mm

THIELE & SMALL PARAMETERS

Fs	47 Hz
Re	5.23 Ω
Le	1.01 mH
Qms	8.01
Qes	0.4
Qts	0.38
Vas	5.92 cu.ft., 167.7 liters
Vd	274 cc
Cms	0.16 mm/N
BL	16.6 T-M
Mms	72 grams
EBP	118
Xmax	3.2 mm
Sd	856.3 cm2
Xlim	13.2 mm

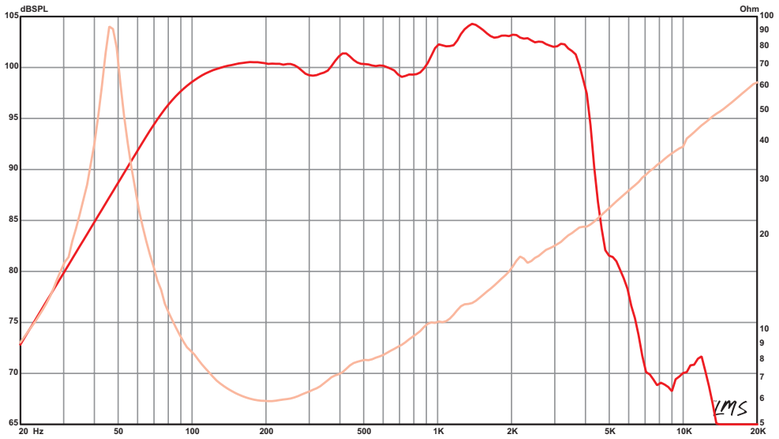
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	54–184 liters, 1.9–6.5 cu.ft.
Driver Volume Displaced	0.138 cu.ft., 3.92 liters
Overall Diameter	15.32", 389.1 mm
Baffle Hole Diameter	14", 355.6 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	14.56", 369.8 mm
Depth	6.06", 153.9 mm
Net Weight	16.9 lbs , 7.67 kg
Shipping Weight	19.5 lbs , 8.85 kg

MATERIALS OF CONSTRUCTION

- Aluminum voice coil
- Polyimide former
- Ferrite magnet
- Vented core
- Die-cast aluminum basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PROFESSIONAL SERIES

KAPPA PRO-15LF-2

Long throw, low frequency woofer recommended for pro audio in a vented bass enclosure.

- **1200 W** Program Power
- **15"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	
Midbass		Vented Box	✔
Woofer	✔	Scoop Loading	✔
Subwoofer	✔	Horn Loading	✔
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 or 4 Ω
Power Rating*	
Program Power	1200 W
Nominal Power	600 W
Resonance	35 Hz
Usable Frequency Range	38 Hz – 1.8 kHz
Sensitivity*	97.8 dB
Magnet Weight	120 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	3", 76 mm

THIELE & SMALL PARAMETERS

Fs	35 Hz
Re	6.5 Ω
Le	1.4 mH
Qms	7.3
Qes	0.32
Qts	0.3
Vas	7.02 cu.ft., 198.8 liters
Vd	571.2 cc
Cms	0.2 mm/N
BL	21.6 T-M
Mms	102 grams
EBP	112
Xmax	6.7 mm
Sd	856.3 cm2
Xlim	18 mm

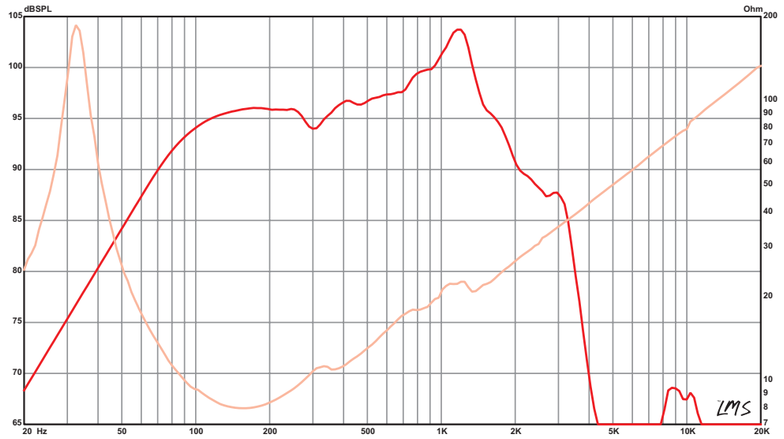
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	76.5–164 liters, 2.7–5.8 cu.ft.
Driver Volume Displaced	0.152 cu.ft., 4.31 liters
Overall Diameter	15.21", 386.3 mm
Baffle Hole Diameter	14", 355.6 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	14.56", 369.8 mm
Depth	6.57", 166.9 mm
Net Weight	22.3 lbs , 10.12 kg
Shipping Weight	24.8 lbs , 11.25 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented and extended core
- Die-cast aluminum basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PROFESSIONAL SERIES

KAPPA PRO 18LF-8

The Kappa Pro 18LF provides tons of low frequency output in a lightweight, durable cast aluminum chassis. Use it as a subwoofer in small to medium sized boxes, a woofer in large three-way PA enclosures, or as a high-power bass guitar woofer. The 1,600 watt program power rating makes it an easy choice for new box designs or as a replacement for many single and double subwoofer cabinets.

- **1600 W** Program Power
- **18"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	
Midbass		Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer	✔	Horn Loading	✔
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	18", 457 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	1600 W
Nominal Power	800 W
Resonance	32 Hz
Usable Frequency Range	38 Hz – 0.7 kHz
Sensitivity*	98 dB
Magnet Weight	120 oz.
Gap Height	0.37", 9.5 mm
Voice Coil Diameter	3", 76 mm

THIELE & SMALL PARAMETERS

Fs	32 Hz
Re	5.39 Ω
Le	1.21 mH
Qms	10.66
Qes	0.34
Qts	0.33
Vas	13.83 cu.ft., 391.61 liters
Vd	927.2 cc
Cms	0.21 mm/N
BL	19.39 T-M
Mms	119 grams
EBP	94
Xmax	8 mm
Sd	1159 cm2
Xlim	18 mm

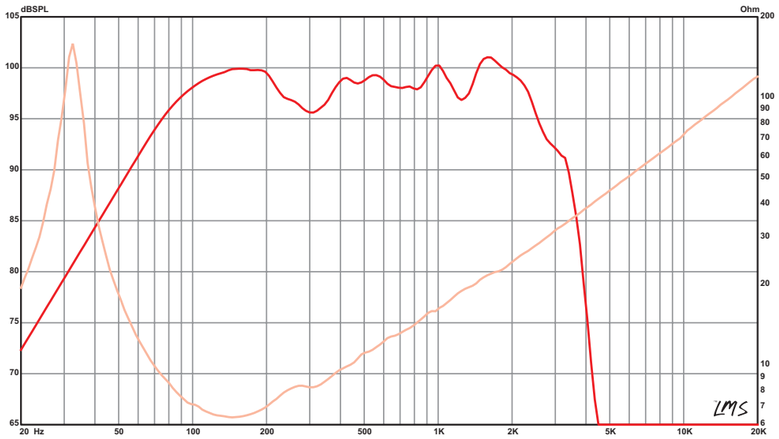
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	113.27–353.96 liters, 4–12.5 cu.ft.
Driver Volume Displaced	0.234 cu.ft., 6.62 liters
Overall Diameter	18", 457.2 mm
Baffle Hole Diameter	16.58", 421.1 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	17.25", 438.2 mm
Depth	8.15", 207 mm
Net Weight	24.5 lbs , 11.11 kg
Shipping Weight	28.1 lbs , 12.75 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Kapton former
- Ferrite magnet
- Vented and extended core
- Die-cast aluminum basket
- Treated paper cone
- Cloth cone edge
- Treated paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PROFESSIONAL SERIES

KILOMAX® PRO 15A

Recommended for professional audio subwoofer and woofer applications in vented enclosures.

- **2500 W** Program Power
- **15"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	
Midbass		Vented Box	✔
Woofer	✔	Scoop Loading	✔
Subwoofer	✔	Horn Loading	✔
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	2500 W
Nominal Power	1250 W
Resonance	41 Hz
Usable Frequency Range	44 Hz – 0.8 kHz
Sensitivity*	95.5 dB
Magnet Weight	109 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	4", 102 mm

THIELE & SMALL PARAMETERS

Fs	41 Hz
Re	4.97 Ω
Le	1.78 mH
Qms	8.8
Qes	0.4
Qts	0.39
Vas	5.46 cu.ft., 154.5 liters
Vd	677 cc
Cms	0.15 mm/N
BL	17.7 T-M
Mms	98 grams
EBP	103
Xmax	7.9 mm
Sd	856.3 cm2
Xlim	13.5 mm

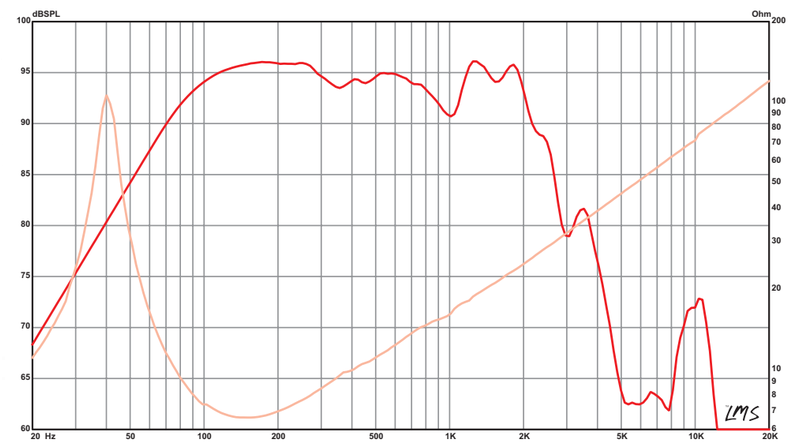
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	82–176 liters, 2.9–6.2 cu.ft.
Driver Volume Displaced	0.152 cu.ft., 4.31 liters
Overall Diameter	15.21", 386.3 mm
Baffle Hole Diameter	14", 355.6 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	14.56", 369.8 mm
Depth	6.42", 163.1 mm
Net Weight	24.7 lbs , 11.2 kg
Shipping Weight	27.1 lbs , 12.29 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Extended core with Core Periphery Ventilation
- Die-cast aluminum basket
- Paper cone
- Cloth cone edge
- Porous cloth top spider/ heatsink

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PROFESSIONAL SERIES

KILOMAX® PRO 18A

Recommended for professional audio subwoofer and woofer applications in sealed and vented enclosures. Not for horn-loading or scoops.

- **2500 W** Program Power
- **18"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	✔
Midbass		Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer	✔	Horn Loading	
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	18", 457 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	2500 W
Nominal Power	1250 W
Resonance	32 Hz
Usable Frequency Range	33 Hz – 0.3 kHz
Sensitivity*	95.8 dB
Magnet Weight	109 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	4", 102 mm

THIELE & SMALL PARAMETERS

Fs	32 Hz
Re	5.07 Ω
Le	1.59 mH
Qms	10.15
Qes	0.49
Qts	0.47
Vas	11.71 cu.ft., 331.5 liters
Vd	1159 cc
Cms	0.18 mm/N
BL	17.2 T-M
Mms	143 grams
EBP	65
Xmax	10 mm
Sd	1159 cm2
Xlim	19.2 mm

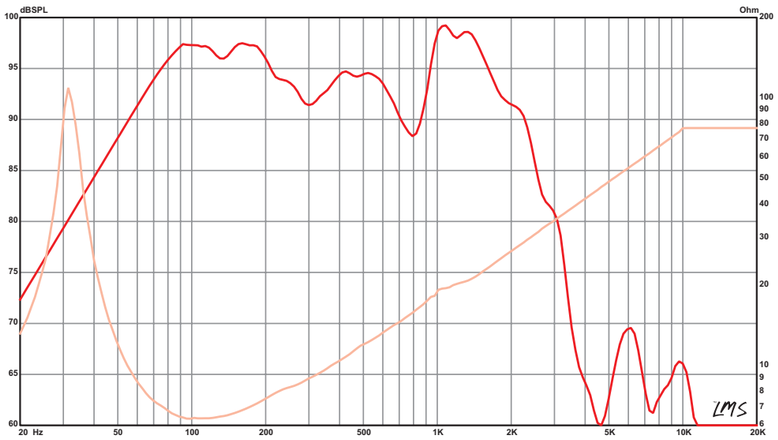
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	104.8–172.7 liters, 3.7–6.1 cu.ft.
Vented	118.9–303 liters, 4.2–10.7 cu.ft.
Driver Volume Displaced	0.234 cu.ft., 6.62 liters
Overall Diameter	18", 457.2 mm
Baffle Hole Diameter	16.56", 420.6 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	17.25", 438.2 mm
Depth	8.15", 207 mm
Net Weight	27.4 lbs , 12.43 kg
Shipping Weight	30.9 lbs , 14.02 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Kapton former
- Ferrite magnet
- Extended core with Core Periphery Ventilation
- Die-cast aluminum basket
- Treated Paper-Kevlar
- Cloth cone edge
- Porous cloth top spider/ heatsink

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PROFESSIONAL SERIES

LA10850

A high power midrange driver in a shallow cast frame with an inverted dust cap for close placement to phase plugs used in many horn loaded designs. Also suitable as a high power midbass driver in small conventional vented enclosures, or as a high power midrange in very compact sealed enclosures.

- **700 W** Program Power
- **10"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer		Scoop Loading	
Subwoofer		Horn Loading	✔
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	700 W
Nominal Power	350 W
Resonance	55 Hz
Usable Frequency Range	120 Hz – 4.3 kHz
Sensitivity*	98.7 dB
Magnet Weight	80 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	3", 76 mm

THIELE & SMALL PARAMETERS

Fs	55 Hz
Re	5.13 Ω
Le	0.54 mH
Qms	9.09
Qes	0.26
Qts	0.25
Vas	2.04 cu.ft., 57.68 liters
Vd	106.2 cc
Cms	0.31 mm/N
BL	13.44 T-M
Mms	26 grams
EBP	212
Xmax	2.9 mm
Sd	366.1 cm2
Xlim	10.4 mm

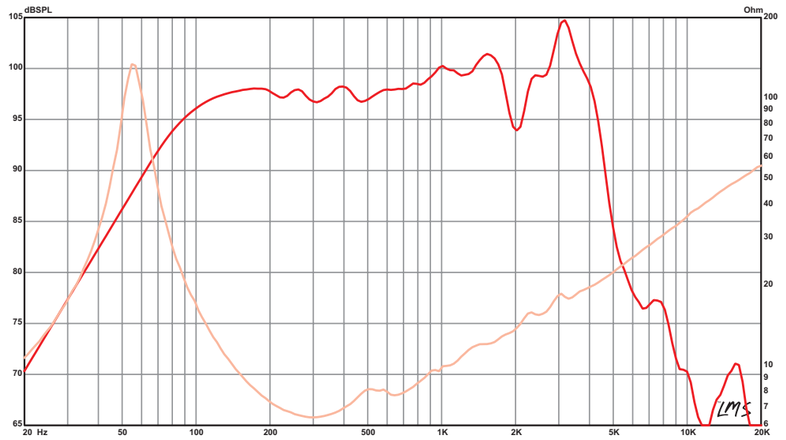
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	15.57–33.98 liters, 0.55–1.2 cu.ft.
Vented	16.71–38.23 liters, 0.59–1.35 cu.ft.
Driver Volume Displaced	0.061 cu.ft., 1.72 liters
Overall Diameter	10.27", 260.9 mm
Baffle Hole Diameter	9.14", 232.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	9.75", 247.7 mm
Depth	4.5", 114.3 mm
Net Weight	15 lbs , 6.8 kg
Shipping Weight	16.15 lbs , 7.33 kg

MATERIALS OF CONSTRUCTION

- Aluminum voice coil
- Polyimide former
- Ferrite magnet
- Vented and extended core
- Die-cast aluminum basket
- Water resistant treated paper cone
- Paper cone edge
- Water resistant treated paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PROFESSIONAL SERIES

LA12850

A high power 12 inch woofer in a shallow cast frame designed to work in ultra-compact vented systems and allow very tight packaging in line arrays or other systems where overall depth is limited.

- **1600 W** Program Power
- **12"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	✔
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	1600 W
Nominal Power	800 W
Resonance	46 Hz
Usable Frequency Range	63 Hz – 2.1 kHz
Sensitivity*	95.9 dB
Magnet Weight	109 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	4", 102 mm

THIELE & SMALL PARAMETERS

Fs	46 Hz
Re	5.87 Ω
Le	0.96 mH
Qms	12.73
Qes	0.32
Qts	0.32
Vas	2.33 cu.ft., 66.07 liters
Vd	272.7 cc
Cms	0.16 mm/N
BL	19.51 T-M
Mms	73 grams
EBP	142
Xmax	5 mm
Sd	545.4 cm2
Xlim	14 mm

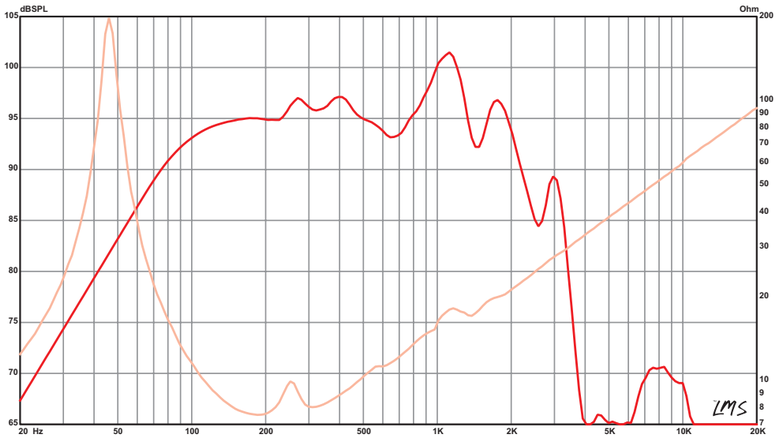
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	31.15–77.87 liters, 1.1–2.75 cu.ft.
Driver Volume Displaced	0.102 cu.ft., 2.9 liters
Overall Diameter	12.32", 312.9 mm
Baffle Hole Diameter	11.08", 281.4 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.27", 6.8 mm
Mounting Holes B.C.D.	11.69", 297 mm
Depth	4.7", 119.4 mm
Net Weight	20.5 lbs , 9.3 kg
Shipping Weight	22.25 lbs , 10.09 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Core and Spider Land extended
- Die-cast aluminum basket
- Water resistant treated paper cone
- Paper cone edge
- Water resistant treated paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PROFESSIONAL SERIES

LA15850

Shallow 15 inch high power cast frame woofer with a 4 inch voice coil and super strong cone body. The inverted dust cap allows close placement to phase plugs used in many horn loaded designs.

- **1600 W** Program Power
- **15"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	✔
Subwoofer	✔	Horn Loading	✔
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	1600 W
Nominal Power	800 W
Resonance	34 Hz
Usable Frequency Range	45 Hz – 1.5 kHz
Sensitivity*	96.2 dB
Magnet Weight	109 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	4", 102 mm

THIELE & SMALL PARAMETERS

Fs	34 Hz
Re	5.83 Ω
Le	1 mH
Qms	9.27
Qes	0.34
Qts	0.33
Vas	8.27 cu.ft., 234.15 liters
Vd	351.1 cc
Cms	0.23 mm/N
BL	18.98 T-M
Mms	98 grams
EBP	100
Xmax	4.1 mm
Sd	856.3 cm2
Xlim	12.2 mm

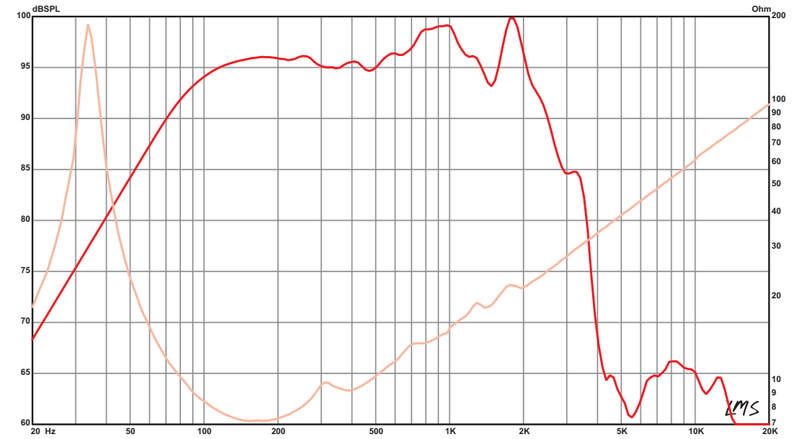
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	46.72–127.43 liters, 1.65–4.5 cu.ft.
Driver Volume Displaced	0.145 cu.ft., 4.1 liters
Overall Diameter	15.3", 388.6 mm
Baffle Hole Diameter	14.08", 357.6 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.26", 6.5 mm
Mounting Holes B.C.D.	14.57", 370.1 mm
Depth	5.5", 139.7 mm
Net Weight	21.4 lbs , 9.71 kg
Shipping Weight	23.6 lbs , 10.7 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Core and Spider Land extended
- Die-cast aluminum basket
- Water resistant treated paper cone
- Paper cone edge
- Water resistant treated paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

LAB12

Recommended for vented, sealed, and horn loaded professional audio enclosures as a subwoofer. A popular choice for car audio subs.

- **800 W** Program Power
- **12"** Nominal Diameter
- **6** or **4 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	✔
Midbass		Vented Box	✔
Woofer		Scoop Loading	
Subwoofer	✔	Horn Loading	✔
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	6 or 4 Ω
Power Rating*	
Program Power	800 W
Nominal Power	400 W
Resonance	22 Hz
Usable Frequency Range	25 Hz – 0.1 kHz
Sensitivity*	89.2 dB
Magnet Weight	160 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	2.5", 64 mm

THIELE & SMALL PARAMETERS

Fs	22 Hz
Re	4.29 Ω
Le	1.48 mH
Qms	13.32
Qes	0.39
Qts	0.38
Vas	4.42 cu.ft., 125.2 liters
Vd	659 cc
Cms	0.35 mm/N
BL	15 T-M
Mms	146 grams
EBP	56
Xmax	13 mm
Sd	506.7 cm2
Xlim	22 mm

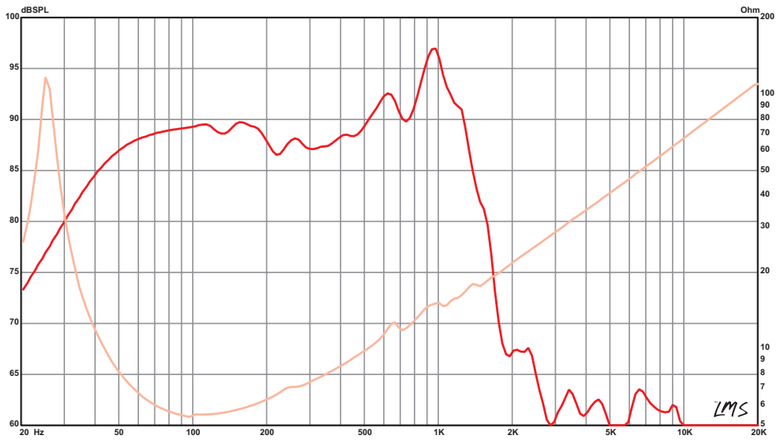
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	22.7–28.3 liters, 0.8–1 cu.ft.
Vented	45.3–101.9 liters, 1.6–3.6 cu.ft.
Driver Volume Displaced	0.109 cu.ft., 3.09 liters
Overall Diameter	12.32", 312.9 mm
Baffle Hole Diameter	10.98", 278.9 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	N/A
Mounting Holes Diameter	0.26", 6.6 mm
Mounting Holes B.C.D.	11.77", 299 mm
Depth	6.44", 163.6 mm
Net Weight	22 lbs , 9.98 kg
Shipping Weight	23.8 lbs , 10.8 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Double stacked 80 oz. ferrite magnets
- Vented and extended core
- 12-spoke die-cast aluminum basket
- Kevlar-reinforced paper cone
- Foam cone edge
- Dual inverted dust caps

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

LAB15

Subwoofer suited for small vented boxes. Also suitable for horn loading. THE sub for electronic dance music (EDM).

- **1200 W** Program Power
- **15"** Nominal Diameter
- **6 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	✔
Midbass		Vented Box	✔
Woofer		Scoop Loading	
Subwoofer	✔	Horn Loading	✔
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	6 Ω
Power Rating*	
Program Power	1200 W
Nominal Power	600 W
Resonance	28 Hz
Usable Frequency Range	20 Hz – 0.1 kHz
Sensitivity*	88.5 dB
Magnet Weight	160 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	3", 76 mm

THIELE & SMALL PARAMETERS

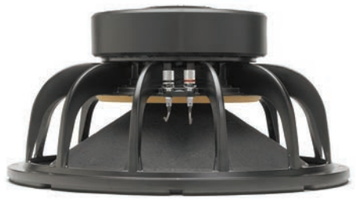
Fs	28 Hz
Re	4.9 Ω
Le	3.23 mH
Qms	5.36
Qes	0.37
Qts	0.35
Vas	3.66 cu.ft., 103.61 liters
Vd	968 cc
Cms	0.11 mm/N
BL	26.7 T-M
Mms	308 grams
EBP	75
Xmax	11.8 mm
Sd	823.7 cm2
Xlim	22 mm

MOUNTING INFORMATION

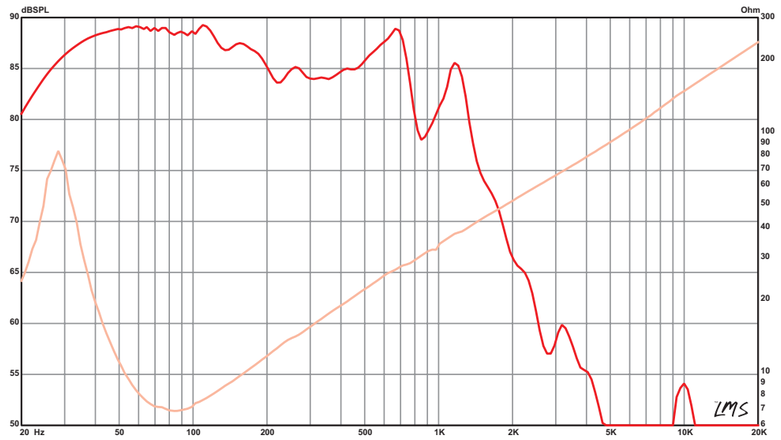
Recommended Enclosure Volume	
Sealed	35–108 liters, 1.2–3.8 cu.ft.
Vented	71–290 liters, 2.5–10.3 cu.ft.
Driver Volume Displaced	0.158 cu.ft., 4.46 liters
Overall Diameter	15.34", 389.6 mm
Baffle Hole Diameter	14", 355.6 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	N/A
Mounting Holes Diameter	0.26", 6.6 mm
Mounting Holes B.C.D.	14.7", 373.4 mm
Depth	7.75", 196.9 mm
Net Weight	23.8 lbs , 10.8 kg
Shipping Weight	26 lbs , 11.79 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Aluminum former
- Double stacked 80 oz. ferrite magnets
- Vented and extended core
- Die-cast aluminum basket
- Kevlar-reinforced paper cone
- Foam cone edge
- water resistant treated solid composition paper



FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PROFESSIONAL SERIES

OMEGA PRO-15A

High power driver for pro audio as a woofer in vented enclosures. Also suitable for horn loading and scoops.

- **1600 W** Program Power
- **15"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	
Midbass		Vented Box	✔
Woofer	✔	Scoop Loading	✔
Subwoofer	✔	Horn Loading	✔
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	1600 W
Nominal Power	800 W
Resonance	33 Hz
Usable Frequency Range	51 Hz – 1.7 kHz
Sensitivity*	97.3 dB
Magnet Weight	109 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	4", 102 mm

THIELE & SMALL PARAMETERS

Fs	33 Hz
Re	5.28 Ω
Le	1.04 mH
Qms	5.69
Qes	0.33
Qts	0.32
Vas	9.13 cu.ft., 258.5 liters
Vd	411 cc
Cms	0.25 mm/N
BL	17.5 T-M
Mms	94 grams
EBP	99
Xmax	4.8 mm
Sd	856.3 cm2
Xlim	12.2 mm

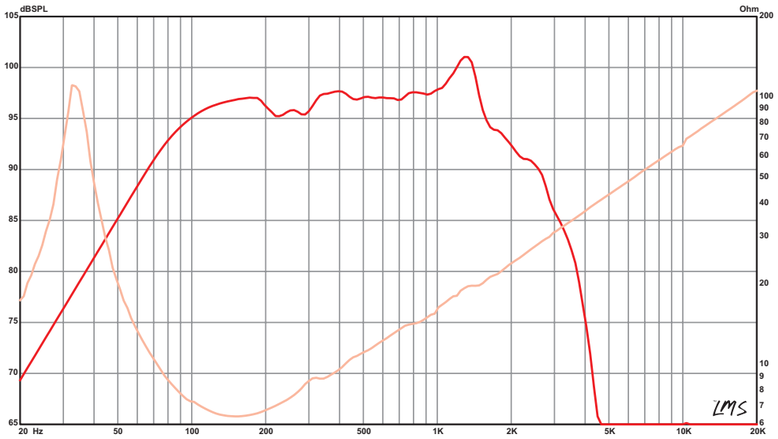
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	57–108 liters, 2–3.8 cu.ft.
Driver Volume Displaced	0.152 cu.ft., 4.31 liters
Overall Diameter	15.21", 386.3 mm
Baffle Hole Diameter	14", 355.6 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	14.56", 369.8 mm
Depth	6.35", 161.3 mm
Net Weight	22.7 lbs , 10.3 kg
Shipping Weight	25.2 lbs , 11.43 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented and extended core
- Die-cast aluminum basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PROFESSIONAL SERIES

OMEGA PRO-18A

Recommended for professional audio as a woofer in vented enclosures. The best 18" for horn loading, scoops, and W bins.

- **1600 W** Program Power
- **18"** Nominal Diameter
- **8** or **4 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	
Midbass		Vented Box	✔
Woofer	✔	Scoop Loading	✔
Subwoofer	✔	Horn Loading	✔
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	18", 457 mm
Nominal Impedance*	8 or 4 Ω
Power Rating*	
Program Power	1600 W
Nominal Power	800 W
Resonance	25 Hz
Usable Frequency Range	40 Hz – 0.8 kHz
Sensitivity*	97 dB
Magnet Weight	109 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	4", 102 mm

THIELE & SMALL PARAMETERS

Fs	25 Hz
Re	5.2 Ω
Le	1.67 mH
Qms	8.18
Qes	0.32
Qts	0.31
Vas	19.38 cu.ft., 548.7 liters
Vd	556 cc
Cms	0.29 mm/N
BL	18.8 T-M
Mms	137 grams
EBP	79
Xmax	4.8 mm
Sd	1159 cm2
Xlim	16 mm

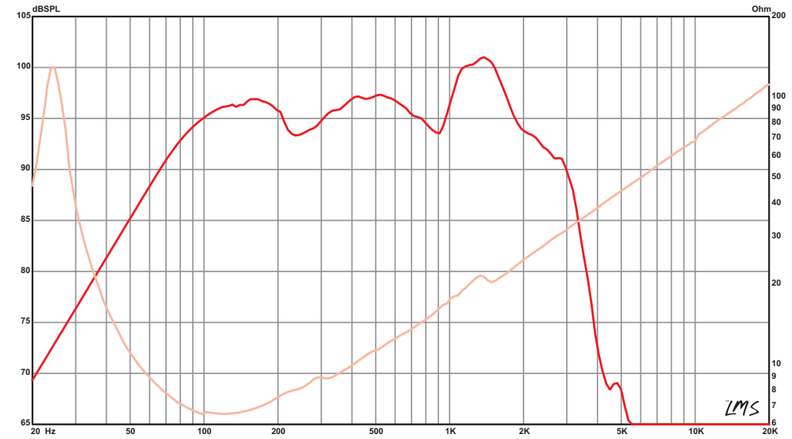
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	96–198 liters, 3.4–7 cu.ft.
Driver Volume Displaced	0.234 cu.ft., 6.62 liters
Overall Diameter	18", 457.2 mm
Baffle Hole Diameter	16.56", 420.6 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	17.25", 438.2 mm
Depth	8.15", 207 mm
Net Weight	25.2 lbs , 11.43 kg
Shipping Weight	28.9 lbs , 13.11 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented and extended core
- Die-cast aluminum basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PROFESSIONAL SERIES

PRO 5W-8

Small in size, large in performance. Featuring an advanced X5™ pulp cone, high temperature copper wire voice coil, and truncated cast frame chassis, the Pro 5W can handle your most demanding midbass, midrange, line array, or column array applications.

- **150 W** Program Power
- **5"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	
Bass Guitar	✔		

ISO-5

The ISO-5 isolation box provides a quick and cost-effective solution for chambering a 5" open-frame speaker. Page 91. (sold separately)

SPECIFICATION

Nominal Basket Diameter	5", 127 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	150 W
Nominal Power	75 W
Resonance	95 Hz
Usable Frequency Range	120 Hz – 7.5 kHz
Sensitivity*	91.1 dB
Magnet Weight	15 oz.
Gap Height	0.315", 8 mm
Voice Coil Diameter	1", 25 mm

THIELE & SMALL PARAMETERS

Fs	95 Hz
Re	5.43 Ω
Le	0.28 mH
Qms	3.35
Qes	0.35
Qts	0.32
Vas	0.15 cu.ft., 4.31 liters
Vd	19.7 cc
Cms	0.7 mm/N
BL	6.11 T-M
Mms	4 grams
EBP	271
Xmax	2.95 mm
Sd	66.6 cm2
Xlim	6 mm

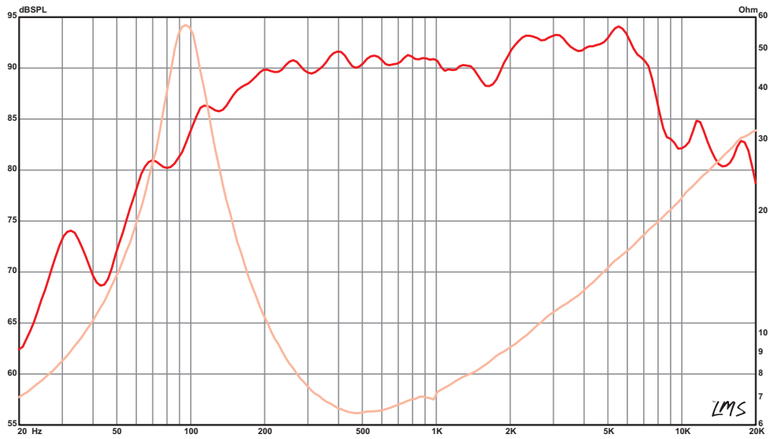
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	1.98–3.11 liters, 0.07–0.11 cu.ft.
Vented	2.55–4.81 liters, 0.09–0.17 cu.ft.
Driver Volume Displaced	0.013 cu.ft., 0.36 liters
Major Diameter	5.25", 133.4 mm
Flat to Flat Diameter	4.74", 120.4 mm
Baffle Hole Diameter	4.28", 108.7 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.13", 3.2 mm
Mounting Holes B.C.D.	4.79", 121.7 mm
Depth	2.5", 63.5 mm
Net Weight	2.9 lbs , 1.32 kg
Shipping Weight	3.3 lbs , 1.5 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Kapton former
- Ferrite magnet
- Vented and extended core
- Die-cast aluminum basket
- X5™ Pulp cone
- Cloth cone edge
- Treated paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PROFESSIONAL SERIES

SIGMA PRO 18A-2

High efficiency, high value pro audio woofer for vented enclosures. Gives you the most from your low powered amp.

- **1300 W** Program Power
- **18"** Nominal Diameter
- **8** or **4 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	
Midbass		Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer	✔	Horn Loading	
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	18", 457 mm
Nominal Impedance*	8 or 4 Ω
Power Rating*	
Program Power	1300 W
Nominal Power	650 W
Resonance	28 Hz
Usable Frequency Range	41 Hz – 2.4 kHz
Sensitivity*	99 dB
Magnet Weight	120 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	3", 76 mm

THIELE & SMALL PARAMETERS

Fs	28 Hz
Re	6.29 Ω
Le	1.9 mH
Qms	8.28
Qes	0.3
Qts	0.29
Vas	15.58 cu.ft., 441.2 liters
Vd	695 cc
Cms	0.24 mm/N
BL	22.1 T-M
Mms	130 grams
EBP	93
Xmax	6.1 mm
Sd	1140 cm2
Xlim	18 mm

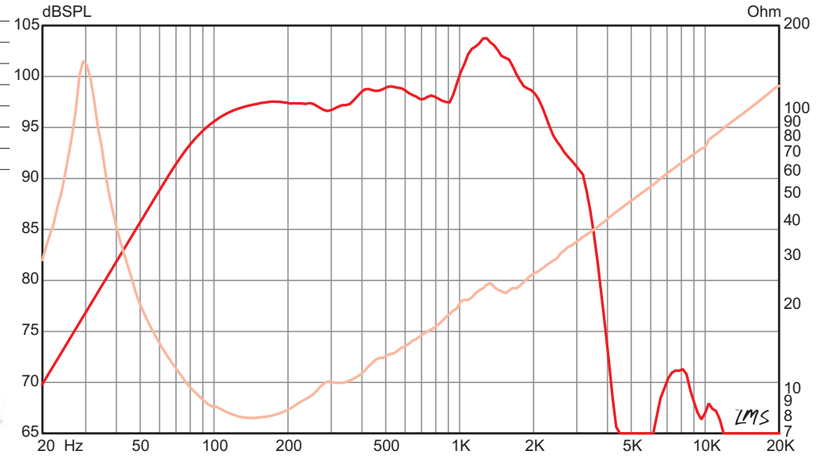
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	93–212 liters, 3.3–7.5 cu.ft.
Driver Volume Displaced	0.234 cu.ft., 6.62 liters
Overall Diameter	18", 457.2 mm
Baffle Hole Diameter	16.56", 420.6 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	17.25", 438.2 mm
Depth	8.15", 207 mm
Net Weight	24.5 lbs , 11.11 kg
Shipping Weight	28.1 lbs , 12.75 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented and extended core
- Die-cast aluminum basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

LIGHTEN UP

KAPPALITE 3015
15" / 900 W

only 7.9 LBS.

NEODYMIUM SERIES

Taking the weight out, leaving the performance in.

7 YEAR WARRANTY*

There are 12 unique models offered in our Neodymium Professional Series. Each one is designed with a specific application in mind. And all are built with the needs of audio professionals at the forefront. Lighter weight is just one of the benefits of neodymium. From heavy-duty subwoofers, midranges and transducers in truncated frames for line arrays, punch, clarity and balance remain unmatched in these speakers.

Every Eminence speaker is backed by a seven-year warranty against manufacturer's defects*. With over 1,200 dealers and distributors worldwide, the sound you want is within reach.

*Warranty policy may vary outside of the continental United States and Canada. Check with your local distributor for warranty details.

NEODYMIUM SERIES

ALPHALITE™ 6A

Lightweight pro audio midbass driver. For sealed, vented, or infinite baffle applications.

- **200 W** Program Power
- **6.5"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer		Scoop Loading	
Subwoofer		Horn Loading	✔
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	6.5", 165 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	200 W
Nominal Power	100 W
Resonance	126 Hz
Usable Frequency Range	100 Hz – 5.5 kHz
Sensitivity*	94 dB
Magnet Weight	4 oz.
Gap Height	0.25", 6.4 mm
Voice Coil Diameter	1.5", 38 mm

THIELE & SMALL PARAMETERS

Fs	126 Hz	Vas	0.17 cu.ft., 4.92 liters
Re	7.3 Ω	Vd	46 cc
Le	0.53 mH	Cms	0.21 mm/N
Qms	6.51	BL	8.45 T-M
Qes	0.61	Mms	8 grams
Qts	0.56	EBP	205
		Xmax	3.5 mm
		Sd	129.9 cm2
		Xlim	4 mm

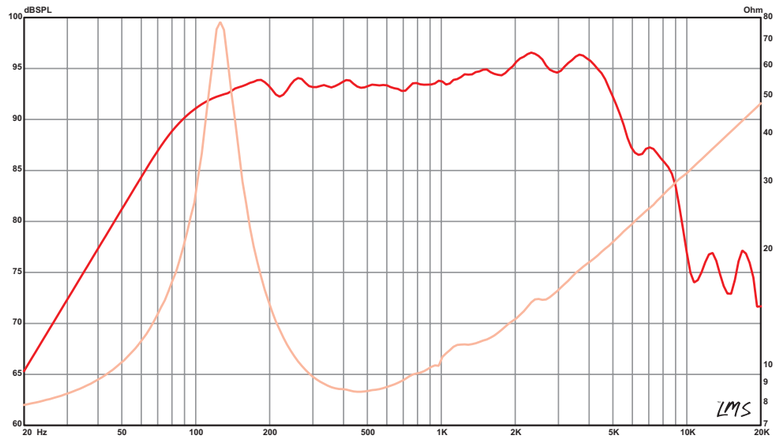
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	2.83–566 liters, 0.1–20 cu.ft.
Vented	3–16 liters, 0.1–0.6 cu.ft.
Driver Volume Displaced	0.01 cu.ft., 0.27 liters
Overall Diameter	6.59", 167.4 mm
Baffle Hole Diameter	5.69", 144.5 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.23", 5.8 mm
Mounting Holes B.C.D.	6.06", 153.9 mm
Depth	2.4", 61 mm
Net Weight	2.2 lbs , 1 kg
Shipping Weight	2.9 lbs , 1.32 kg

MATERIALS OF CONSTRUCTION

- Round copper voice coil
- Kapton former
- Neodymium magnet
- Vented and Extended core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Treated paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

DELTALITE® II 2510

Recommended for pro audio as a mid/hi or full-range and monitor. Also suited for bass guitar and works well in sealed or vented enclosures.

- **500 W** Program Power
- **10"** Nominal Diameter
- **8** or **4 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	✔
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 or 4 Ω
Power Rating*	
Program Power	500 W
Nominal Power	250 W
Resonance	53 Hz
Usable Frequency Range	60 Hz – 4 kHz
Sensitivity*	97.3 dB
Magnet Weight	7 oz.
Gap Height	0.275", 7 mm
Voice Coil Diameter	2.5", 64 mm

THIELE & SMALL PARAMETERS

Fs	53 Hz
Re	5.06 Ω
Le	0.4 mH
Qms	5.76
Qes	0.45
Qts	0.42
Vas	1.85 cu.ft., 52.5 liters
Vd	147 cc
Cms	0.3 mm/N
BL	10.6 T-M
Mms	31 grams
EBP	117
Xmax	4.2 mm
Sd	350.1 cm2
Xlim	8 mm

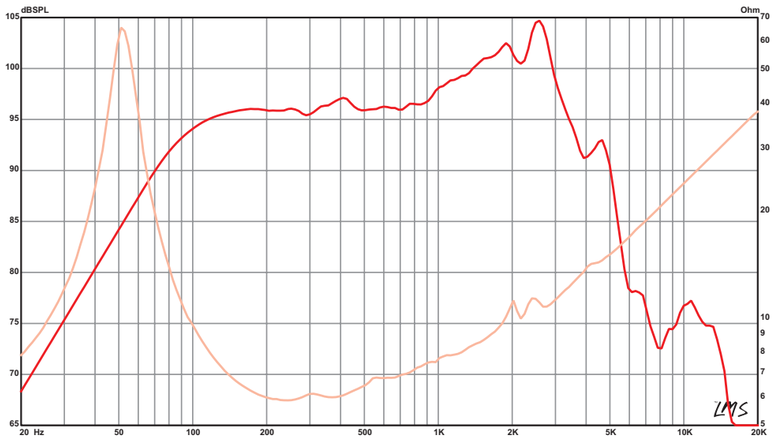
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	12.7–17 liters, 0.45–0.6 cu.ft.
Vented	17–39.6 liters, 0.6–1.4 cu.ft.
Driver Volume Displaced	0.026 cu.ft., 0.74 liters
Overall Diameter	10.25", 260.4 mm
Baffle Hole Diameter	9.15", 232.4 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	9.73", 247.1 mm
Depth	4.9", 124.5 mm
Net Weight	4.6 lbs , 2.09 kg
Shipping Weight	5.7 lbs , 2.59 kg

MATERIALS OF CONSTRUCTION

- Aluminum voice coil
- Polyimide former
- Neodymium magnet
- Vented core
- Die-cast aluminum basket/ heatsink
- Paper Cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

DELTALITE® II 2512

Suited for pro audio as a mid/hi or full-range and monitor. Also recommended for bass guitar. Works well in sealed or vented enclosures.

- **500 W** Program Power
- **12"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	✔
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	500 W
Nominal Power	250 W
Resonance	44 Hz
Usable Frequency Range	58 Hz – 4.3 kHz
Sensitivity*	99.9 dB
Magnet Weight	7 oz.
Gap Height	0.275", 7 mm
Voice Coil Diameter	2.5", 64 mm

THIELE & SMALL PARAMETERS

Fs	44 Hz
Re	5.17 Ω
Le	0.43 mH
Qms	4.17
Qes	0.45
Qts	0.41
Vas	4.76 cu.ft., 134.88 liters
Vd	255 cc
Cms	0.36 mm/N
BL	10.69 T-M
Mms	37 grams
EBP	96
Xmax	4.9 mm
Sd	519.5 cm2
Xlim	8.5 mm

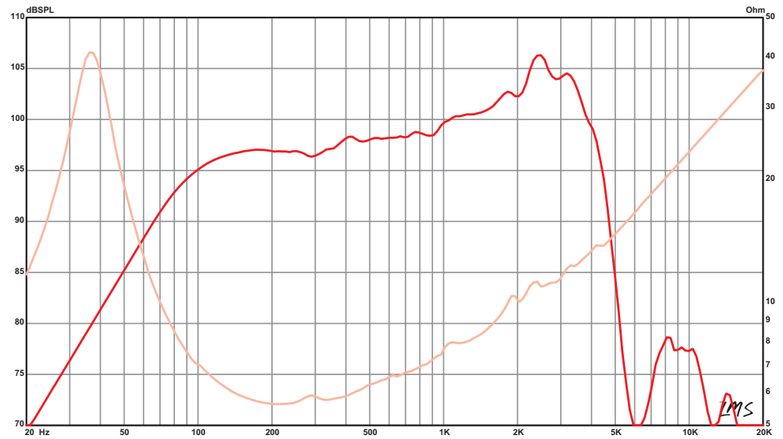
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	25.49–42.48 liters, 0.9–1.5 cu.ft.
Vented	32.56–127.43 liters, 1.15–4.5 cu.ft.
Driver Volume Displaced	0.05 cu.ft., 1.42 liters
Overall Diameter	12.38", 314.5 mm
Baffle Hole Diameter	11.06", 280.9 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	11.62", 295.2 mm
Depth	6.06", 153.9 mm
Net Weight	5.1 lbs , 2.31 kg
Shipping Weight	6.8 lbs , 3.08 kg

MATERIALS OF CONSTRUCTION

- Aluminum voice coil
- Polyimide former
- Neodymium magnet
- Vented core
- Die-cast aluminum basket/ heatsink
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

DELTALITE® II 2515

Recommended for pro audio as a mid/hi or full-range and monitor. Also suited for bass guitar. Works well in sealed or vented enclosures.

- **600 W** Program Power
- **15”** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	15”, 381 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	600 W
Nominal Power	300 W
Resonance	42 Hz
Usable Frequency Range	54 Hz – 3.7 kHz
Sensitivity*	99.2 dB
Magnet Weight	7 oz.
Gap Height	0.275”, 7 mm
Voice Coil Diameter	2.5”, 64 mm

THIELE & SMALL PARAMETERS

Fs	42 Hz
Re	5.29 Ω
Le	1.15 mH
Qms	4.56
Qes	0.41
Qts	0.38
Vas	7.2 cu.ft., 204 liters
Vd	411 cc
Cms	0.2 mm/N
BL	15.7 T-M
Mms	72 grams
EBP	103
Xmax	4.8 mm
Sd	856.3 cm2
Xlim	9 mm

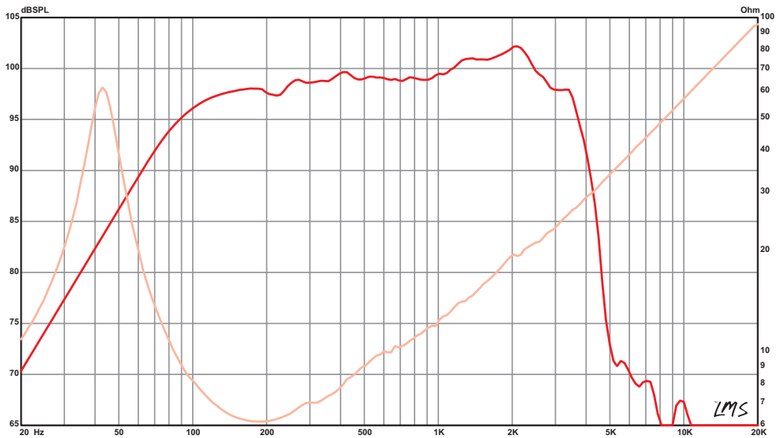
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	42.5–48 liters, 1.5–1.7 cu.ft.
Vented	51–119 liters, 1.8–4.2 cu.ft.
Driver Volume Displaced	0.084 cu.ft., 2.38 liters
Overall Diameter	15.32”, 389.1 mm
Baffle Hole Diameter	14”, 355.6 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28”, 7.1 mm
Mounting Holes B.C.D.	14.56”, 369.8 mm
Depth	6.81”, 173 mm
Net Weight	5.7 lbs , 2.59 kg
Shipping Weight	7.9 lbs , 3.58 kg

MATERIALS OF CONSTRUCTION

- Aluminum voice coil
- Polyimide former
- Neodymium magnet
- Vented core
- Die-cast aluminum basket/ heatsink
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

KAPPALITE™ 3010HO

Lightweight high power, high output midrange driver. For use in small sealed and vented enclosures.

- **800 W** Program Power
- **10”** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	✔
Midbass		Vented Box	✔
Woofer		Scoop Loading	
Subwoofer		Horn Loading	✔
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	10”, 254 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	800 W
Nominal Power	400 W
Resonance	61 Hz
Usable Frequency Range	400 Hz – 4 kHz
Sensitivity*	99.9 dB
Magnet Weight	11 oz.
Gap Height	0.365”, 9.3 mm
Voice Coil Diameter	3”, 76 mm

THIELE & SMALL PARAMETERS

Fs	61 Hz
Re	5.46 Ω
Le	0.57 mH
Qms	9.93
Qes	0.27
Qts	0.26
Vas	1.31 cu.ft., 37.21 liters
Vd	162.2 cc
Cms	0.2 mm/N
BL	16.27 T-M
Mms	34 grams
EBP	227
Xmax	4.43 mm
Sd	366.1 cm2
Xlim	7.5 mm

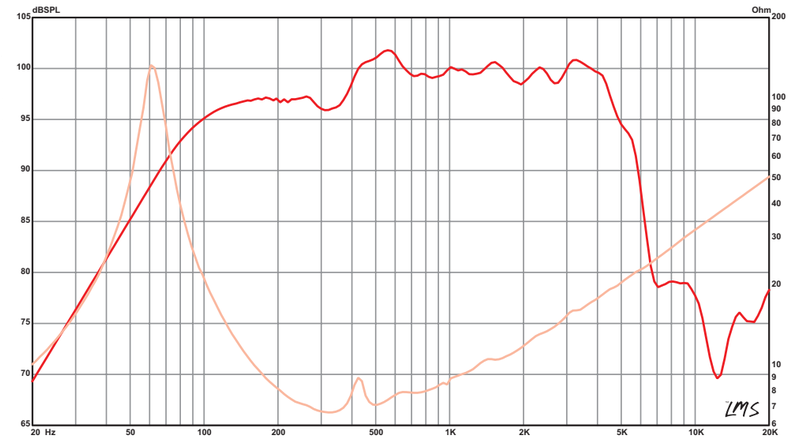
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	9.91–21.24 liters, 0.35–0.75 cu.ft.
Vented	15.01–28.32 liters, 0.53–1 cu.ft.
Driver Volume Displaced	0.037 cu.ft., 1.04 liters
Major Diameter	11.18”, 284 mm
Flat to Flat Diameter	10”, 254 mm
Baffle Hole Diameter	9.12”, 231.7 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.29”, 7.4 mm
Mounting Holes B.C.D.	10.49”, 266.5 mm
Depth	4.61”, 117.1 mm
Net Weight	7.1 lbs , 3.22 kg
Shipping Weight	8.7 lbs , 3.95 kg

MATERIALS OF CONSTRUCTION

- Edge wound aluminum voice coil
- Fiberglass former
- Neodymium magnet
- Vented Core
- Die-cast aluminum basket
- Treated paper cone
- Sealed cloth Edge
- Treated Paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

NEODYMIUM SERIES

KAPPALITE™ 3010MB

Lightweight high power midbass driver. When used as a true midrange, a small sealed box will work. When used as a midbass, use a vented box.

- **800 W** Program Power
- **10”** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer		Scoop Loading	
Subwoofer		Horn Loading	✔
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	10”, 254 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	800 W
Nominal Power	400 W
Resonance	51 Hz
Usable Frequency Range	85 Hz – 3.6 kHz
Sensitivity*	98.6 dB
Magnet Weight	11 oz.
Gap Height	0.365”, 9.3 mm
Voice Coil Diameter	3”, 76 mm

THIELE & SMALL PARAMETERS

Fs	51 Hz
Re	5.01 Ω
Le	0.68 mH
Qms	6.83
Qes	0.21
Qts	0.2
Vas	1.84 cu.ft., 52.1 liters
Vd	183.1 cc
Cms	0.28 mm/N
BL	16.51 T-M
Mms	36 grams
EBP	244
Xmax	5 mm
Sd	366.1 cm2
Xlim	7.5 mm

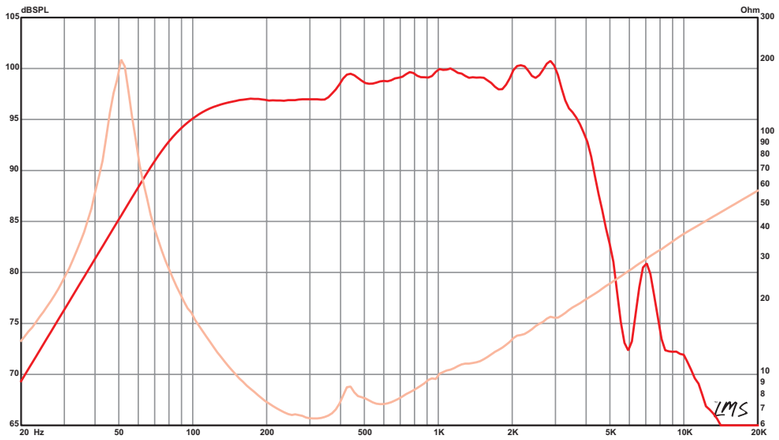
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	15.57–43.89 liters, 0.55–1.55 cu.ft.
Vented	19.82–63.71 liters, 0.7–2.25 cu.ft.
Driver Volume Displaced	0.037 cu.ft., 1.04 liters
Major Diameter	11.18”, 284 mm
Flat to Flat Diameter	10”, 254 mm
Baffle Hole Diameter	9.12”, 231.7 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.29”, 7.4 mm
Mounting Holes B.C.D.	10.49”, 266.5 mm
Depth	4.61”, 117.1 mm
Net Weight	7.1 lbs , 3.22 kg
Shipping Weight	8.7 lbs , 3.95 kg

MATERIALS OF CONSTRUCTION

- Edge wound copper voice coil
- Polyimide former
- Neodymium magnet
- Vented core
- Die-cast aluminum basket
- Treated paper cone
- Sealed cloth Edge
- Treated paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

NEODYMIUM SERIES

KAPPALITE™ 3010LF

High power subwoofer recommended for vented and horn loaded enclosures. Truncated chassis allows for close placement in tight fitting applications.

- **900 W** Program Power
- **10”** Nominal Diameter
- **8** or **4 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	
Midbass		Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer	✔	Horn Loading	✔
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	10”, 254 mm
Nominal Impedance*	8 or 4 Ω
Power Rating*	
Program Power	900 W
Nominal Power	450 W
Resonance	39 Hz
Usable Frequency Range	42 Hz – 1.6 kHz
Sensitivity*	92.7 dB
Magnet Weight	11 oz.
Gap Height	0.365”, 9.3 mm
Voice Coil Diameter	3”, 76 mm

THIELE & SMALL PARAMETERS

Fs	39 Hz
Re	7.2 Ω
Le	1.13 mH
Qms	11.75
Qes	0.28
Qts	0.27
Vas	2.2 cu.ft., 62.41 liters
Vd	305.4 cc
Cms	0.35 mm/N
BL	17.45 T-M
Mms	49 grams
EBP	138
Xmax	8.52 mm
Sd	358.4 cm2
Xlim	15.7 mm

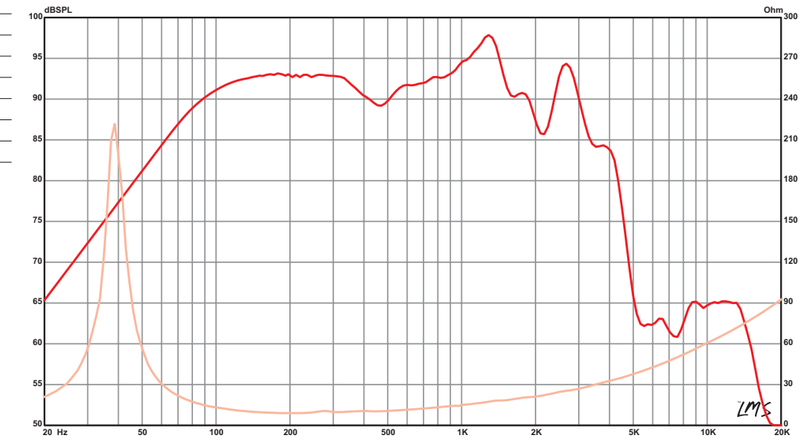
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	19.82–84.95 liters, 0.7–3 cu.ft.
Driver Volume Displaced	0.037 cu.ft., 1.06 liters
Major Diameter	11.18”, 284 mm
Flat to Flat Diameter	10”, 254 mm
Baffle Hole Diameter	9.12”, 231.7 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.29”, 7.4 mm
Mounting Holes B.C.D.	10.49”, 266.5 mm
Depth	5”, 127 mm
Net Weight	7.6 lbs , 3.45 kg
Shipping Weight	9.2 lbs , 4.17 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Neodymium magnet
- Vented core
- Die-cast aluminum basket
- Treated paper cone
- Sealed cloth Edge
- Treated paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

NEODYMIUM SERIES

KAPPALITE™ 3012H0

Recommended as a woofer, midbass or midrange in sealed and vented enclosures. A popular choice for 12″ line arrays and bass guitar applications.

- **800 W** Program Power
- **12″** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	✔
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	12″, 305 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	800 W
Nominal Power	400 W
Resonance	52 Hz
Usable Frequency Range	51 Hz – 3.5 kHz
Sensitivity*	100.5 dB
Magnet Weight	11 oz.
Gap Height	0.365″, 9.3 mm
Voice Coil Diameter	3″, 76 mm

THIELE & SMALL PARAMETERS

Fs	52 Hz
Re	5.5 Ω
Le	0.57 mH
Qms	8.39
Qes	0.33
Qts	0.32
Vas	2.86 cu.ft., 81.1 liters
Vd	330 cc
Cms	0.2 mm/N
BL	15.9 T-M
Mms	47 grams
EBP	157
Xmax	6.2 mm
Sd	532.4 cm2
Xlim	12.5 mm

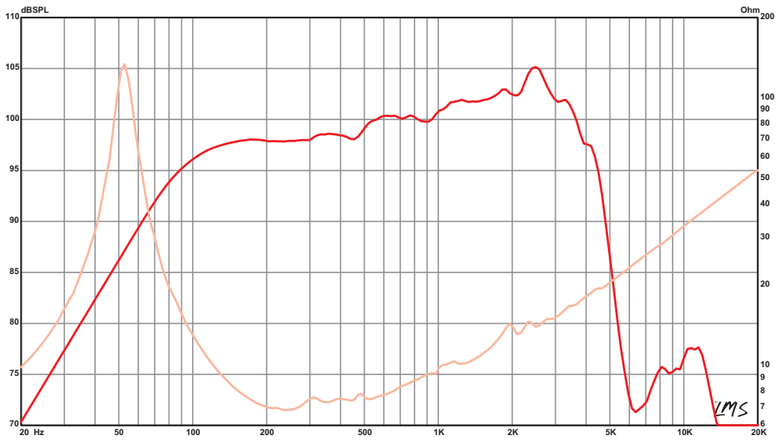
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	28–76 liters, 1–2.7 cu.ft.
Vented	41–110 liters, 1.5–3.9 cu.ft.
Driver Volume Displaced	0.054 cu.ft., 1.53 liters
Overall Diameter	12.38″, 314.5 mm
Baffle Hole Diameter	11.06″, 280.9 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28″, 7.1 mm
Mounting Holes B.C.D.	11.62″, 295.2 mm
Depth	5.63″, 143 mm
Net Weight	7.1 lbs , 3.22 kg
Shipping Weight	8.7 lbs , 3.95 kg

MATERIALS OF CONSTRUCTION

- Aluminum voice coil
- Kapton former
- Neodymium magnet
- Vented core
- Die-cast aluminum basket
- Treated paper cone
- Sealed cloth surround
- Treated paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

NEODYMIUM SERIES

KAPPALITE™ 3012LF

Recommended for pro audio and bass in vented enclosures.

- **900 W** Program Power
- **12″** Nominal Diameter
- **8** or **4 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	✔
Midbass		Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer	✔	Horn Loading	✔
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	12″, 305 mm
Nominal Impedance*	8 or 4 Ω
Power Rating*	
Program Power	900 W
Nominal Power	450 W
Resonance	37 Hz
Usable Frequency Range	46 Hz – 2 kHz
Sensitivity*	95.5 dB
Magnet Weight	11 oz.
Gap Height	0.365″, 9.3 mm
Voice Coil Diameter	3″, 76 mm

THIELE & SMALL PARAMETERS

Fs	37 Hz
Re	5.6 Ω
Le	0.98 mH
Qms	6.94
Qes	0.34
Qts	0.32
Vas	3.77 cu.ft., 106.65 liters
Vd	496 cc
Cms	0.26 mm/N
BL	16.7 T-M
Mms	72 grams
EBP	110
Xmax	9.1 mm
Sd	545.4 cm2
Xlim	14.5 mm

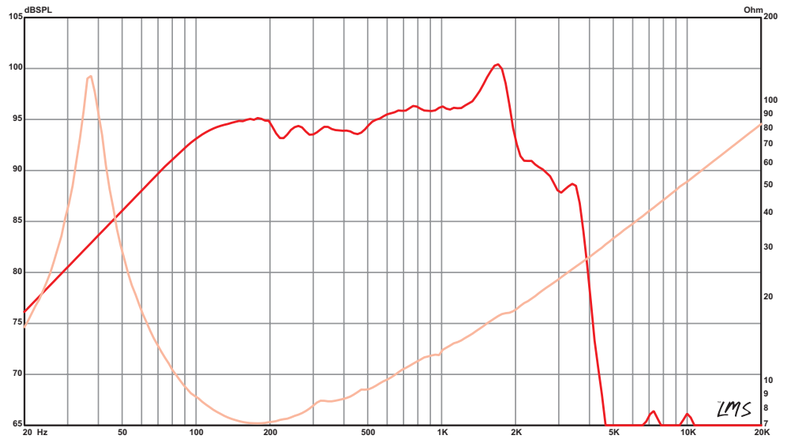
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	23–59 liters, 0.8–2.1 cu.ft.
Vented	37–85 liters, 1.3–3 cu.ft.
Driver Volume Displaced	0.055 cu.ft., 1.56 liters
Overall Diameter	12.38″, 314.5 mm
Baffle Hole Diameter	11.06″, 280.9 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28″, 7.1 mm
Mounting Holes B.C.D.	11.62″, 295.2 mm
Depth	6″, 152.4 mm
Net Weight	7.6 lbs , 3.45 kg
Shipping Weight	9.2 lbs , 4.17 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Kapton former
- Neodymium magnet
- Vented core
- Die-cast aluminum basket
- Treated paper cone
- Sealed cloth Edge
- Treated paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*

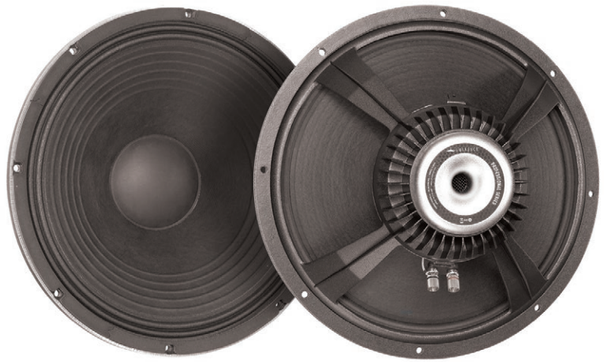


* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

KAPPALITE™ 3015

Recommended for vented professional audio enclosures for full-range or as mids. Also suitable for bass guitar.

- **900 W** Program Power
- **15"** Nominal Diameter
- **8 Ω**



APPLICATION		ENCLOSURE	
Midrange		Sealed Box	
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	✔
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	900 W
Nominal Power	450 W
Resonance	45 Hz
Usable Frequency Range	40 Hz – 4 kHz
Sensitivity*	100.8 dB
Magnet Weight	11 oz.
Gap Height	0.365", 9.3 mm
Voice Coil Diameter	3", 76 mm

THIELE & SMALL PARAMETERS

Fs	45 Hz
Re	5.27 Ω
Le	0.64 mH
Qms	6.7
Qes	0.36
Qts	0.34
Vas	5.4 cu.ft., 153 liters
Vd	505 cc
Cms	0.15 mm/N
BL	18.6 T-M
Mms	84 grams
EBP	125
Xmax	5.9 mm
Sd	856 cm2
Xlim	11 mm

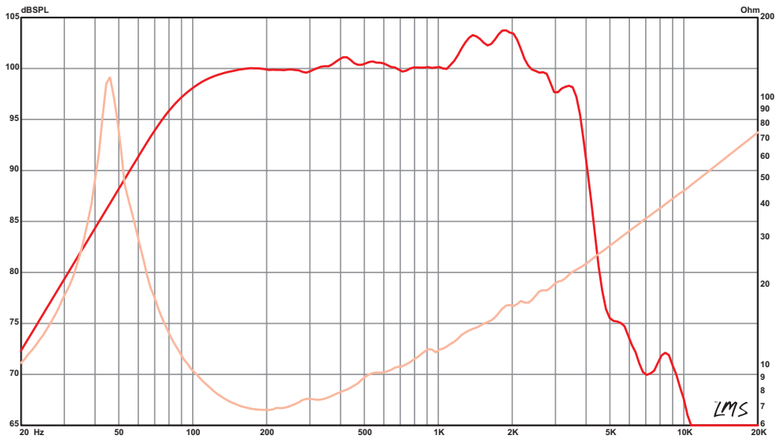
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	51–144 liters, 1.8–5.1 cu.ft.
Driver Volume Displaced	0.09 cu.ft., 2.54 liters
Overall Diameter	15.32", 389.1 mm
Baffle Hole Diameter	14", 355.6 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	14.56", 369.8 mm
Depth	6.8", 172.7 mm
Net Weight	7.9 lbs , 3.58 kg
Shipping Weight	10.1 lbs , 4.58 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Neodymium magnet
- Vented core
- Die-cast aluminum basket/ heatsink
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

KAPPALITE™ 3015LF

Recommended for professional audio and bass in vented enclosures.

- **900 W** Program Power
- **15"** Nominal Diameter
- **8** or **4 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	
Midbass		Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer	✔	Horn Loading	✔
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	900 W
Nominal Power	450 W
Resonance	44 Hz
Usable Frequency Range	40 Hz – 1.5 kHz
Sensitivity*	98.4 dB
Magnet Weight	11 oz.
Gap Height	0.365", 9.3 mm
Voice Coil Diameter	3", 76 mm

THIELE & SMALL PARAMETERS

Fs	44 Hz
Re	5.5 Ω
Le	0.93 mH
Qms	8.97
Qes	0.48
Qts	0.46
Vas	5.33 cu.ft., 150.9 liters
Vd	846 cc
Cms	0.14 mm/N
BL	17 T-M
Mms	93 grams
EBP	90
Xmax	9.6 mm
Sd	881.1 cm2
Xlim	17 mm

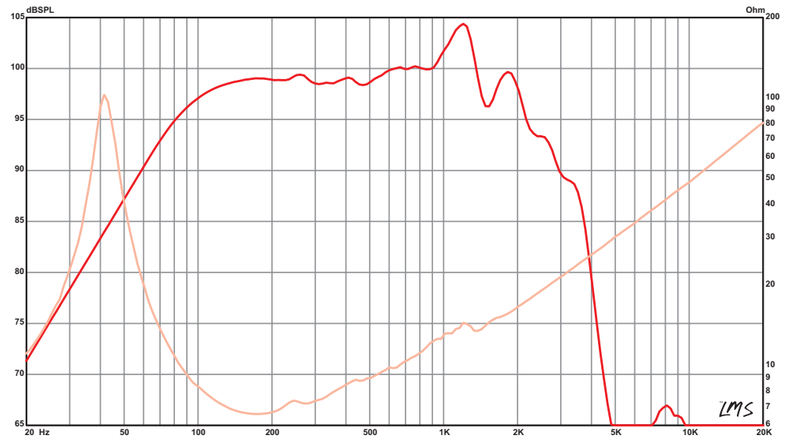
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	99–195 liters, 3.5–6.9 cu.ft.
Driver Volume Displaced	0.09 cu.ft., 2.56 liters
Overall Diameter	15.32", 389.1 mm
Baffle Hole Diameter	14.03", 356.4 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	14.56", 369.8 mm
Depth	7.25", 184.2 mm
Net Weight	8.6 lbs , 3.9 kg
Shipping Weight	10.7 lbs , 4.85 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Kapton former
- Neodymium magnet
- Vented core
- Die-cast aluminum basket/heatsink
- Treated paper cone
- Cloth cone edge
- Treated paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

NEODYMIUM SERIES

PRO 5MRN-8

Weighing a mere 2 lbs., the Pro 5MRN neodymium midrange/tweeter driver features a wide usable frequency range and water resistant epoxy treated paper cone for a warm, rich tone. The truncated cast frame chassis allows for tight placement in your pro audio or car audio cabinet, and pair it with a Kappalite model for the ultimate in ultra-light bass guitar performance.

- **130 W** Program Power
- **5"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	✔
Midbass		Vented Box	
Woofer		Scoop Loading	
Subwoofer		Horn Loading	
Bass Guitar	✔		

ISO-5

The ISO-5 isolation box provides a quick and cost-effective solution for chambering a 5" open-frame speaker. Page 91. (sold separately)

SPECIFICATION

Nominal Basket Diameter	5", 127 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	130 W
Nominal Power	65 W
Resonance	223 Hz
Usable Frequency Range	325 Hz – 20 kHz
Sensitivity*	93.1 dB
Magnet Weight	4 oz.
Gap Height	0.236", 6 mm
Voice Coil Diameter	1", 25 mm

THIELE & SMALL PARAMETERS

Fs	223 Hz
Re	5.45 Ω
Le	0.18 mH
Qms	2.8
Qes	0.93
Qts	0.7
Vas	0.03 cu.ft., 0.85 liters
Vd	3.6 cc
Cms	0.12 mm/N
BL	5.84 T-M
Mms	4 grams
EBP	239
Xmax	0.51 mm
Sd	71.3 cm2
Xlim	5 mm

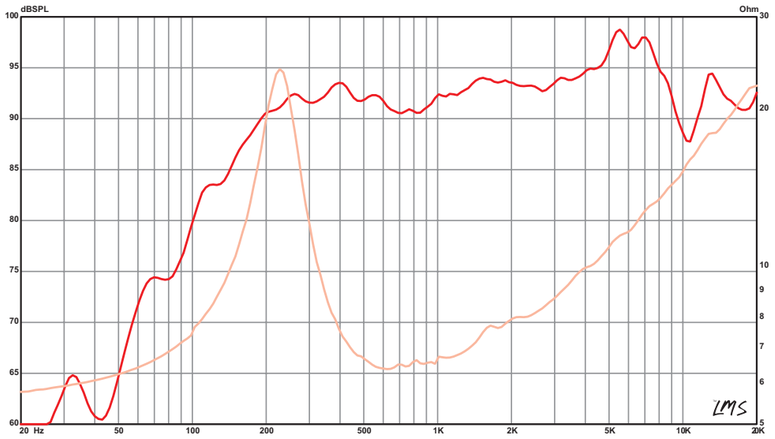
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	0.85–1.56 liters, 0.03–0.06 cu.ft.
Vented	N/A
Driver Volume Displaced	0.494 cu.ft., 14 liters
Major Diameter	5.25", 133.4 mm
Flat to Flat Diameter	4.74", 120.4 mm
Baffle Hole Diameter	4.28", 108.7 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.18", 4.6 mm
Mounting Holes B.C.D.	4.79", 121.7 mm
Depth	2.16", 54.8 mm
Net Weight	2 lbs , 0.91 kg
Shipping Weight	2.2 lbs , 1 kg

MATERIALS OF CONSTRUCTION

- Pure aluminum voice coil
- Kapton former
- Neodymium magnet
- Vented and Extended core
- Die-cast aluminum basket
- Treated paper cone
- Cloth cone edge
- Treated paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

EMINENCE®

Designed and assembled by hand in the USA,
Eminence is the most trusted name in the industry.

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AMERICAN STANDARD SERIES

Offering unmatched quality and value.

There are 27 unique models available in our American Standard series, each designed for versatility in a wide range of applications.

7 YEAR WARRANTY*

Each Eminence American Standard model can be identified by its economical stamped steel chassis. Although more affordable than cast aluminum, these frames provide an excellent and versatile chassis. We coat the basket and all metal parts with an epoxy-acrylic finish. Our in-house e-coat process lets us control the thickness of that coating to within 0.001". That's the diameter of a human hair and it's critical when working with close tolerance transducer motor designs. We then add front and rear sealing gaskets on each model to allow front or rear loading.

And like our Professional series, every speaker is designed and assembled by hand, and is backed by a seven-year warranty against manufacturer's defects*.

Eminence offers 4" to 15" models with applications ranging from standard subwoofers, two-way enclosures, and coaxials, to truncated line array models, monitor woofers, and high performance midranges setting records for output in car audio.

No other loudspeaker line provides more choices, power handling, performance, and reliability for the price.

*Warranty policy may vary outside of the continental United States and Canada. Check with your local distributor for warranty details.

ALPHA 4

Perfectly suited for line array, car doors or side panels, and other tight fitting applications, the Alpha 4 is a very versatile 110 watt driver that can be used full range, as a midbass, or as a midrange. They can be stacked by themselves in a column for vocal applications, or in conjunction with a tweeter and a sub for compact, high performance PA or MI applications.

- **110 W** Program Power
- **4"** Nominal Diameter
- **4** or **8 Ω**

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer		Scoop Loading	
Subwoofer		Horn Loading	
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	4", 102 mm
Nominal Impedance*	4 or 8 Ω
Power Rating*	
Program Power	110 W
Nominal Power	55 W
Resonance	120 Hz
Usable Frequency Range	105 Hz – 10 kHz
Sensitivity*	88 dB
Magnet Weight	10 oz.
Gap Height	0.14", 3.7 mm
Voice Coil Diameter	1", 25 mm

THIELE & SMALL PARAMETERS

Fs	120 Hz
Re	3.42 Ω
Le	0.18 mH
Qms	6.41
Qes	0.7
Qts	0.63
Vas	0.06 cu.ft., 1.76 liters
Vd	15 cc
Cms	0.38 mm/N
BL	4.12 T-M
Mms	5 grams
EBP	172
Xmax	2.6 mm
Sd	57.7 cm2
Xlim	4.5 mm

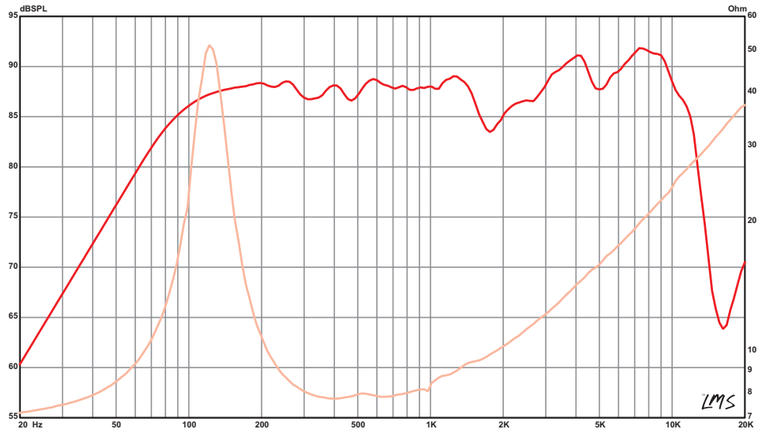
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	1.84–4.53 liters, 0.07–0.16 cu.ft.
Vented	3.96–7.08 liters, 0.14–0.25 cu.ft.
Driver Volume Displaced	0.012 cu.ft., 0.33 liters
Overall Diameter	4.57", 116.1 mm
Baffle Hole Diameter	3.77", 95.8 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.15", 3.8 mm
Mounting Holes B.C.D.	4.25", 108 mm
Depth	2.31", 58.7 mm
Net Weight	1.5 lbs , 0.68 kg
Shipping Weight	1.9 lbs , 0.86 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Non-Vented core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

ALPHA-6A

Very versatile and great sounding pro audio midrange in a sealed cabinet, or as a midbass in a vented satellite enclosure.

- **200 W** Program Power
- **6.5"** Nominal Diameter
- **8** or **4 Ω**

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer		Scoop Loading	
Subwoofer		Horn Loading	✔
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	6.5", 165 mm
Nominal Impedance*	8 or 4 Ω
Power Rating*	
Program Power	200 W
Nominal Power	100 W
Resonance	103 Hz
Usable Frequency Range	95 Hz – 6 kHz
Sensitivity*	93.6 dB
Magnet Weight	20 oz.
Gap Height	0.25", 6.4 mm
Voice Coil Diameter	1.5", 38 mm

THIELE & SMALL PARAMETERS

Fs	103 Hz
Re	7.2 Ω
Le	0.19 mH
Qms	5.68
Qes	0.6
Qts	0.54
Vas	0.2 cu.ft., 5.8 liters
Vd	44 cc
Cms	0.26 mm/N
BL	8 T-M
Mms	7 grams
EBP	159
Xmax	3.5 mm
Sd	126.7 cm2
Xlim	4 mm

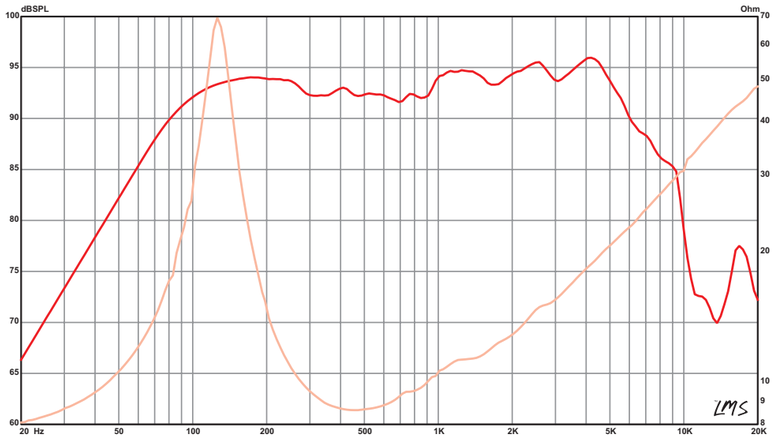
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	2.8–5.7 liters, 0.1–0.2 cu.ft.
Vented	3.4–15.6 liters, 0.12–0.55 cu.ft.
Driver Volume Displaced	0.014 cu.ft., 0.41 liters
Overall Diameter	6.59", 167.4 mm
Baffle Hole Diameter	5.65", 143.5 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.23", 5.8 mm
Mounting Holes B.C.D.	6.06", 153.9 mm
Depth	2.8", 71.1 mm
Net Weight	4.1 lbs , 1.86 kg
Shipping Weight	4.8 lbs , 2.18 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented and extended core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

ALPHA-6CBMRA

Recommended for pro audio, car audio, and bass guitar midrange applications. Sealed basket affords this speaker enclosure independence.

- **200 W** Program Power
- **6.5"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	
Midbass		Vented Box	
Woofer		Scoop Loading	
Subwoofer		Horn Loading	✔
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	6.5", 165 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	200 W
Nominal Power	100 W
Resonance	407 Hz
Usable Frequency Range	400 Hz – 5 kHz
Sensitivity*	97.8 dB
Magnet Weight	16 oz.
Gap Height	0.25", 6.4 mm
Voice Coil Diameter	1.5", 38 mm

THIELE & SMALL PARAMETERS

Fs	407 Hz
Re	5.26 Ω
Le	0.38 mH
Qms	6.04
Qes	1.74
Qts	1.35
Vas	0.02 cu.ft., 0.45 liters
Vd	19 cc
Cms	0.02 mm/N
BL	7.86 T-M
Mms	8 grams
EBP	234
Xmax	1.5 mm
Sd	126.7 cm2
Xlim	3 mm

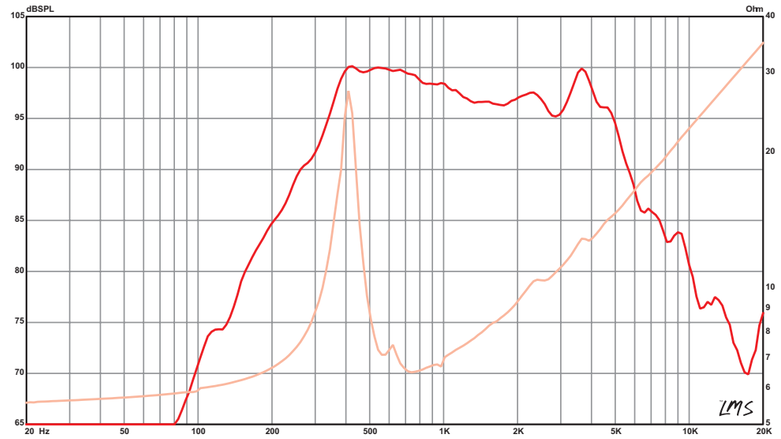
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	N/A
Driver Volume Displaced	0.014 cu.ft., 0.4 liters
Overall Diameter	6.59", 167.4 mm
Baffle Hole Diameter	5.69", 144.5 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.23", 5.8 mm
Mounting Holes B.C.D.	6.06", 153.9 mm
Depth	2.2", 55.9 mm
Net Weight	3.7 lbs , 1.68 kg
Shipping Weight	4.4 lbs , 2 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Non-vented core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

ALPHA-8A

Recommended for professional audio midrange applications in a sealed cabinet, or as a midbass in a vented satellite enclosure.

- **250 W** Program Power
- **8″** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	8″, 203 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	250 W
Nominal Power	125 W
Resonance	73 Hz
Usable Frequency Range	58 Hz – 5 kHz
Sensitivity*	94 dB
Magnet Weight	20 oz.
Gap Height	0.25″, 6.4 mm
Voice Coil Diameter	1.5″, 38 mm

THIELE & SMALL PARAMETERS

Fs	73 Hz
Re	5.3 Ω
Le	0.44 mH
Qms	4.6
Qes	0.68
Qts	0.59
Vas	0.63 cu.ft., 17.7 liters
Vd	67 cc
Cms	0.28 mm/N
BL	7.8 T-M
Mms	17 grams
EBP	107
Xmax	3.2 mm
Sd	210 cm2
Xlim	7.1 mm

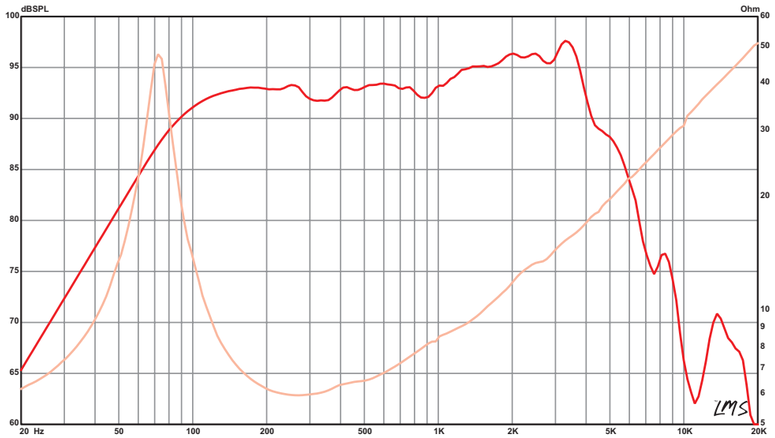
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	5–7 liters, 0.18–0.25 cu.ft.
Vented	16.7–25.5 liters, 0.59–0.9 cu.ft.
Driver Volume Displaced	0.02 cu.ft., 0.58 liters
Overall Diameter	8.24″, 209.3 mm
Baffle Hole Diameter	7.13″, 181.1 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.22″, 5.6 mm
Mounting Holes B.C.D.	7.75″, 196.9 mm
Depth	3.25″, 82.6 mm
Net Weight	4.3 lbs , 1.95 kg
Shipping Weight	5.1 lbs , 2.31 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

ALPHA-8MRA

Recommended for pro audio and bass guitar applications as a midrange. Sealed basket makes this woofer independent of enclosure design.

- **250 W** Program Power
- **8″** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	
Midbass		Vented Box	
Woofer		Scoop Loading	
Subwoofer		Horn Loading	✔
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	8″, 203 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	250 W
Nominal Power	125 W
Resonance	514 Hz
Usable Frequency Range	400 Hz – 4.8 kHz
Sensitivity*	100.9 dB
Magnet Weight	20 oz.
Gap Height	0.25″, 6.4 mm
Voice Coil Diameter	1.5″, 38 mm

THIELE & SMALL PARAMETERS

Fs	514 Hz
Re	7.32 Ω
Le	0.34 mH
Qms	4.48
Qes	2.08
Qts	1.42
Vas	0.03 cu.ft., 0.8 liters
Vd	0 cc
Cms	0.01 mm/N
BL	8.9 T-M
Mms	7 grams
EBP	247
Xmax	1.6 mm
Sd	205.9 cm2
Xlim	3 mm

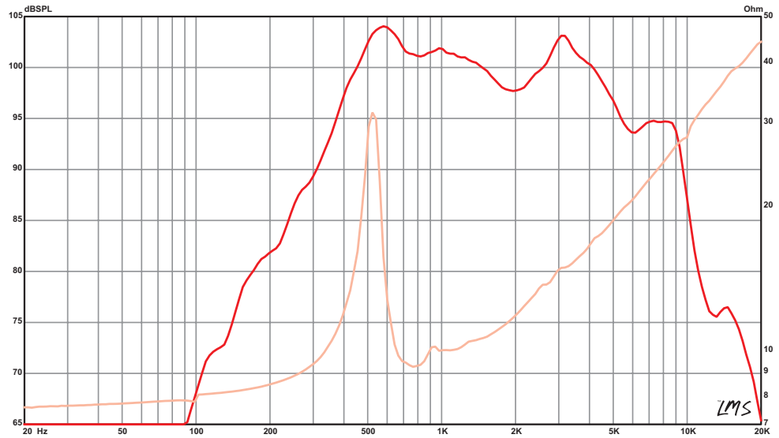
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	N/A
Driver Volume Displaced	0.02 cu.ft., 0.58 liters
Overall Diameter	8.22″, 208.8 mm
Baffle Hole Diameter	7.19″, 182.6 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.22″, 5.6 mm
Mounting Holes B.C.D.	7.78″, 197.6 mm
Depth	3.25″, 82.6 mm
Net Weight	4.4 lbs , 2 kg
Shipping Weight	5.1 lbs , 2.31 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented core
- Pressed steel basket with closed back
- Paper cone
- Paper cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

ALPHA-10A

Recommended for professional audio midbass applications in a small sealed cabinet.

- **300 W** Program Power
- **10"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	✔
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	300 W
Nominal Power	150 W
Resonance	50 Hz
Usable Frequency Range	57 Hz – 4.5 kHz
Sensitivity*	95.6 dB
Magnet Weight	20 oz.
Gap Height	0.25", 6.4 mm
Voice Coil Diameter	1.5", 38 mm

THIELE & SMALL PARAMETERS

Fs	50 Hz
Re	5.31 Ω
Le	0.66 mH
Qms	5.21
Qes	0.66
Qts	0.59
Vas	2.9 cu.ft., 82.2 liters
Vd	114 cc
Cms	0.46 mm/N
BL	7.5 T-M
Mms	22 grams
EBP	76
Xmax	3.2 mm
Sd	355.4 cm2
Xlim	9.1 mm

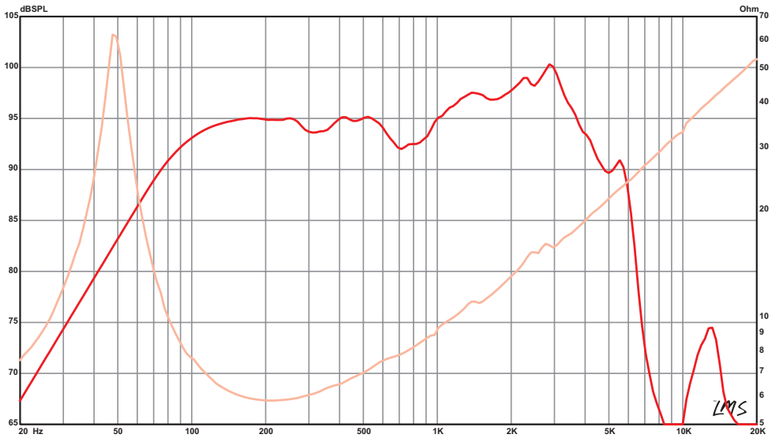
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	8.5–11.3 liters, 0.3–0.4 cu.ft.
Vented	28.3–53.8 liters, 1–1.9 cu.ft.
Driver Volume Displaced	0.034 cu.ft., 0.95 liters
Overall Diameter	10.11", 256.8 mm
Baffle Hole Diameter	9.13", 231.9 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.23", 5.8 mm
Mounting Holes B.C.D.	9.6", 243.8 mm
Depth	3.9", 99.1 mm
Net Weight	4.5 lbs , 2.04 kg
Shipping Weight	5.6 lbs , 2.54 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented and extended core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

ALPHA-12A

Recommended for professional audio midbass applications in a small sealed or medium vented enclosure.

- **300 W** Program Power
- **12"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	300 W
Nominal Power	150 W
Resonance	49 Hz
Usable Frequency Range	51 Hz – 4.3 kHz
Sensitivity*	95.6 dB
Magnet Weight	20 oz.
Gap Height	0.25", 6.4 mm
Voice Coil Diameter	1.5", 38 mm

THIELE & SMALL PARAMETERS

Fs	49 Hz
Re	6.3 Ω
Le	0.79 mH
Qms	6.53
Qes	0.88
Qts	0.77
Vas	4.29 cu.ft., 121.5 liters
Vd	125 cc
Cms	0.32 mm/N
BL	8.5 T-M
Mms	33 grams
EBP	56
Xmax	2.4 mm
Sd	519.5 cm2
Xlim	6.6 mm

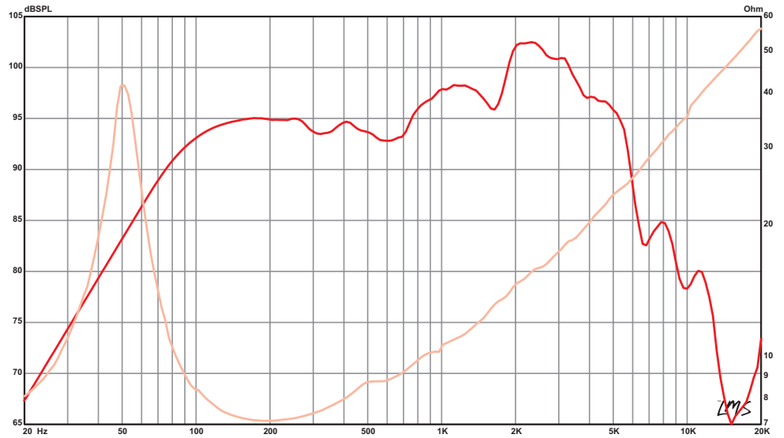
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	17–22.7 liters, 0.6–0.8 cu.ft.
Vented	56.6–113.3 liters, 2–4 cu.ft.
Driver Volume Displaced	0.063 cu.ft., 1.78 liters
Overall Diameter	12.26", 311.4 mm
Baffle Hole Diameter	11.06", 280.9 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25", 6.4 mm
Mounting Holes B.C.D.	11.71", 297.4 mm
Depth	4.73", 120.1 mm
Net Weight	5.3 lbs , 2.4 kg
Shipping Weight	7.4 lbs , 3.36 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented and extended core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition felt dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

ALPHA-15A

Recommended for professional audio as a woofer in a vented or sealed enclosure. The high Qts makes it ideal for open baffle hi-fi designs.

- **400 W** Program Power
- **15"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	400 W
Nominal Power	200 W
Resonance	41 Hz
Usable Frequency Range	46 Hz – 3.5 kHz
Sensitivity*	97 dB
Magnet Weight	25 oz.
Gap Height	0.25", 6.4 mm
Voice Coil Diameter	1.5", 38 mm

THIELE & SMALL PARAMETERS

Fs	41 Hz
Re	5.88 Ω
Le	0.84 mH
Qms	7.23
Qes	1.53
Qts	1.26
Vas	9.18 cu.ft., 260 liters
Vd	325 cc
Cms	0.25 mm/N
BL	7.7 T-M
Mms	59 grams
EBP	27
Xmax	3.8 mm
Sd	856.3 cm2
Xlim	8.4 mm

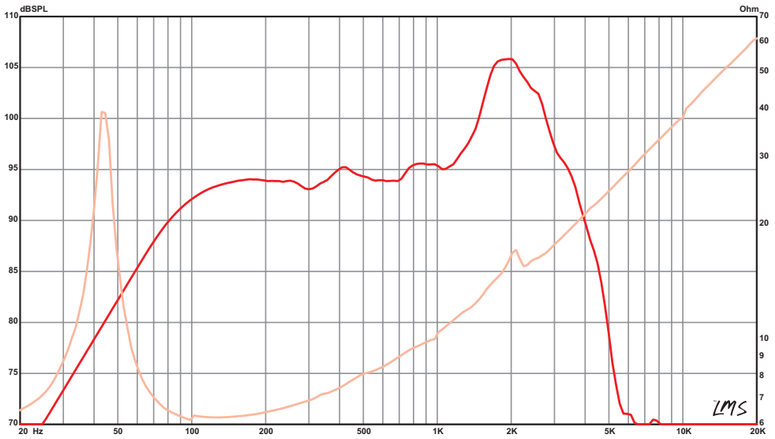
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	71–85 liters, 2.5–3 cu.ft.
Vented	106–177 liters, 3.75–6.25 cu.ft.
Driver Volume Displaced	0.113 cu.ft., 3.21 liters
Overall Diameter	15.15", 384.8 mm
Baffle Hole Diameter	13.87", 352.3 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25", 6.4 mm
Mounting Holes B.C.D.	14.56", 369.8 mm
Depth	5.83", 148.1 mm
Net Weight	6.7 lbs , 3.04 kg
Shipping Weight	8.8 lbs , 3.99 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented and extended core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

BETA-6A

High power 6.5 inch midbass driver for use in concert sound systems or in high power auto sound as a midbass or a midrange driver. Works well in tiny sealed or vented enclosures, and in infinite baffles too.

- **350 W** Program Power
- **6.5"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer		Scoop Loading	
Subwoofer		Horn Loading	✔
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	6.5", 165 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	350 W
Nominal Power	175 W
Resonance	123 Hz
Usable Frequency Range	95 Hz – 4 kHz
Sensitivity*	94 dB
Magnet Weight	30 oz.
Gap Height	0.25", 6.4 mm
Voice Coil Diameter	2", 51 mm

THIELE & SMALL PARAMETERS

Fs	123 Hz
Re	5.18 Ω
Le	0.43 mH
Qms	3.46
Qes	0.66
Qts	0.56
Vas	0.12 cu.ft., 3.51 liters
Vd	61.1 cc
Cms	0.15 mm/N
BL	8.13 T-M
Mms	11 grams
EBP	185
Xmax	4.5 mm
Sd	129.9 cm2
Xlim	5.7 mm

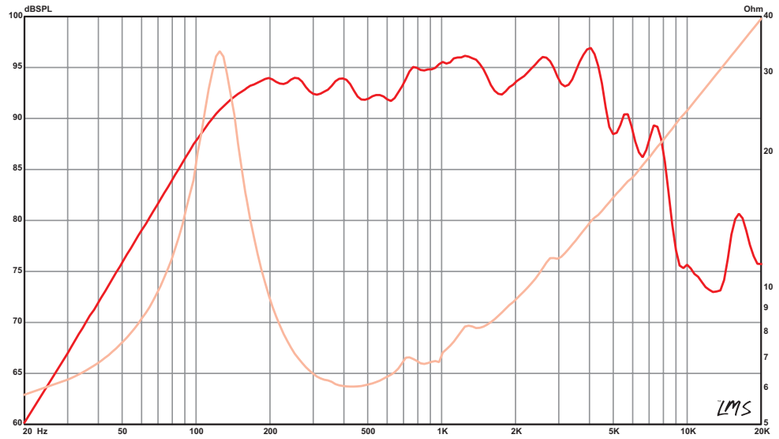
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	2.38–9999.99 liters, 0.08–9999.99 cu.ft.
Vented	5.1–14.16 liters, 0.18–0.5 cu.ft.
Driver Volume Displaced	0.021 cu.ft., 0.6 liters
Overall Diameter	6.59", 167.4 mm
Baffle Hole Diameter	5.65", 143.5 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.23", 5.8 mm
Mounting Holes B.C.D.	6.06", 153.9 mm
Depth	2.66", 67.6 mm
Net Weight	5.6 lbs , 2.54 kg
Shipping Weight	6.3 lbs , 2.86 kg

MATERIALS OF CONSTRUCTION

- Aluminum voice coil
- Polyimide former
- Ferrite magnet
- Vented and extended core
- Pressed steel basket
- Water resistant paper cone
- Treated cloth cone edge
- Water resistant treated paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

BETA-8A

Recommended for professional audio midbass applications or as a woofer in vented enclosures. Also suitable as a midbass speaker in sealed enclosures.

- **450 W** Program Power
- **8"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	✔
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	8", 203 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	450 W
Nominal Power	225 W
Resonance	65 Hz
Usable Frequency Range	78 Hz – 4.5 kHz
Sensitivity*	95.1 dB
Magnet Weight	34 oz.
Gap Height	0.312", 7.9 mm
Voice Coil Diameter	2", 51 mm

THIELE & SMALL PARAMETERS

Fs	65 Hz
Re	5.99 Ω
Le	0.49 mH
Qms	4.95
Qes	0.42
Qts	0.38
Vas	0.82 cu.ft., 23.3 liters
Vd	63 cc
Cms	0.37 mm/N
BL	9.6 T-M
Mms	16 grams
EBP	156
Xmax	3 mm
Sd	210 cm2
Xlim	7.4 mm

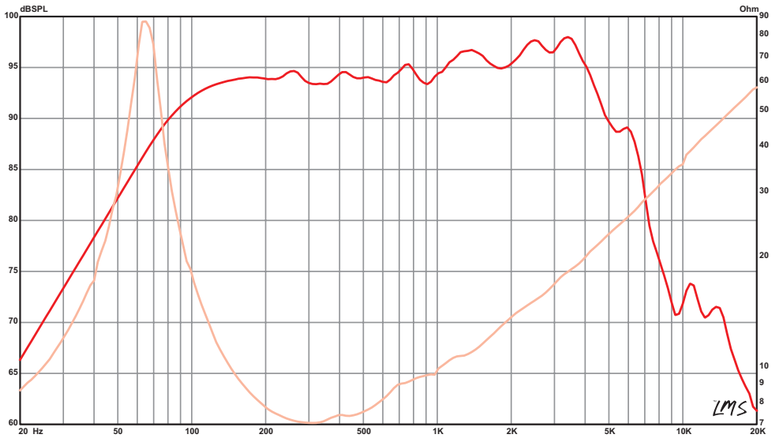
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	5.7–9.9 liters, 0.2–0.35 cu.ft.
Vented	8.5–19 liters, 0.3–0.67 cu.ft.
Driver Volume Displaced	0.027 cu.ft., 0.76 liters
Overall Diameter	8.24", 209.3 mm
Baffle Hole Diameter	7.13", 181.1 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.22", 5.6 mm
Mounting Holes B.C.D.	7.75", 196.9 mm
Depth	3.5", 88.9 mm
Net Weight	6.6 lbs , 2.99 kg
Shipping Weight	7.4 lbs , 3.36 kg

MATERIALS OF CONSTRUCTION

- Aluminum voice coil
- Polyimide former
- Ferrite magnet
- Vented core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

BETA-8CX

Recommended for professional audio midrange reproduction in sealed enclosures. Also suitable for midbass or floor monitor applications in vented 2-way cabinets. A great choice for home hi-fi, satellites, and acoustic guitar applications.

- **500 W** Program Power
- **8"** Nominal Diameter
- **8 Ω**

The data for this coaxial woofer was calculated with the ASD:1001 driver screwed into the woofer, but not active.

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	8", 203 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	500 W
Nominal Power	250 W
Resonance	62 Hz
Usable Frequency Range	95 Hz – 3.3 kHz
Sensitivity*	92.9 dB
Magnet Weight	38 oz.
Gap Height	0.312", 7.9 mm
Voice Coil Diameter	2", 51 mm

THIELE & SMALL PARAMETERS

Fs	62 Hz
Re	5.37 Ω
Le	0.67 mH
Qms	6.57
Qes	0.31
Qts	0.29
Vas	0.76 cu.ft., 21.43 liters
Vd	67.2 cc
Cms	0.35 mm/N
BL	11.21 T-M
Mms	19 grams
EBP	201
Xmax	3.2 mm
Sd	210 cm2
Xlim	6.9 mm

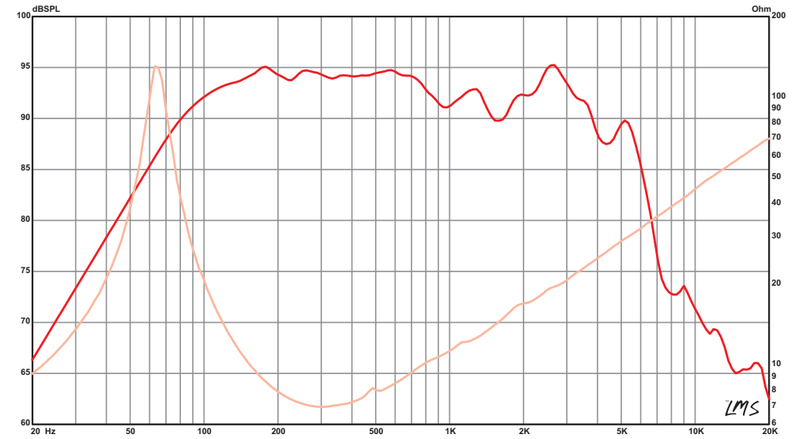
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	3.4–9.91 liters, 0.12–0.35 cu.ft.
Vented	7.08–16.99 liters, 0.25–0.6 cu.ft.
Driver Volume Displaced	0.028 cu.ft., 0.79 liters
Overall Diameter	8.24", 209.3 mm
Baffle Hole Diameter	7.13", 181.1 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.22", 5.6 mm
Mounting Holes B.C.D.	7.75", 196.9 mm
Depth	3.5", 88.9 mm
Net Weight	6.8 lbs , 3.08 kg
Shipping Weight	7.5 lbs , 3.4 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Kapton former
- Ferrite magnet
- Tapered Coax
- Pressed steel basket
- Paper Cone
- Sealed cloth cone edge
- Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

BETA-10A

Recommended for professional audio, bass guitar, midbass or floor monitor applications in sealed enclosures. Also works well as a midbass or woofer in vented enclosures.

- **500 W** Program Power
- **10″** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	✔
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	10″, 254 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	500 W
Nominal Power	250 W
Resonance	53 Hz
Usable Frequency Range	51 Hz – 3.8 kHz
Sensitivity*	97 dB
Magnet Weight	34 oz.
Gap Height	0.312″, 7.9 mm
Voice Coil Diameter	2″, 51 mm

THIELE & SMALL PARAMETERS

Fs	53 Hz
Re	5.75 Ω
Le	0.67 mH
Qms	8.14
Qes	0.52
Qts	0.49
Vas	2.12 cu.ft., 60.1 liters
Vd	103.5 cc
Cms	0.36 mm/N
BL	9.6 T-M
Mms	25 grams
EBP	102
Xmax	3 mm
Sd	344.9 cm2
Xlim	8.6 mm

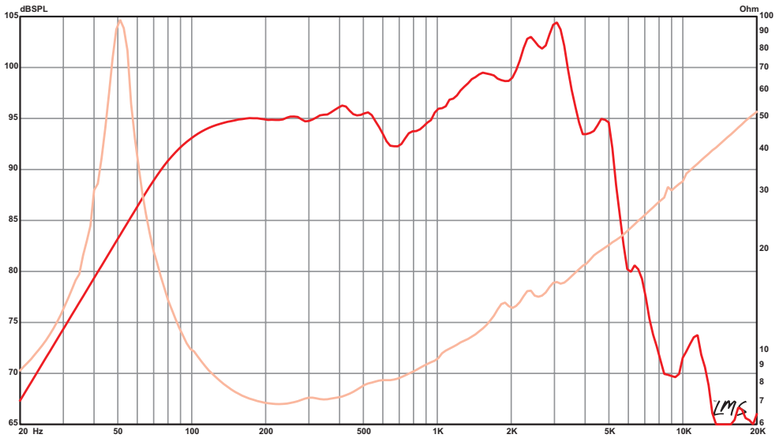
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	8.5–14.2 liters, 0.3–0.5 cu.ft.
Vented	19.8–70.8 liters, 0.7–2.5 cu.ft.
Driver Volume Displaced	0.04 cu.ft., 1.13 liters
Overall Diameter	10.11″, 256.8 mm
Baffle Hole Diameter	9.13″, 231.9 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.23″, 5.8 mm
Mounting Holes B.C.D.	9.6″, 243.8 mm
Depth	3.98″, 101.1 mm
Net Weight	6.8 lbs , 3.08 kg
Shipping Weight	7.8 lbs , 3.54 kg

MATERIALS OF CONSTRUCTION

- Aluminum voice coil
- Polyimide former
- Ferrite magnet
- Vented core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

BETA-10CBMRA

Recommended for high power pro audio and car audio midrange applications. Sealed basket affords this speaker cabinet independence.

- **400 W** Program Power
- **10″** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	
Midbass		Vented Box	
Woofer		Scoop Loading	
Subwoofer		Horn Loading	✔
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	10″, 254 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	400 W
Nominal Power	200 W
Resonance	326 Hz
Usable Frequency Range	300 Hz – 4 kHz
Sensitivity*	99.6 dB
Magnet Weight	34 oz.
Gap Height	0.313″, 8 mm
Voice Coil Diameter	2″, 51 mm

THIELE & SMALL PARAMETERS

Fs	326 Hz
Re	5.68 Ω
Le	0.48 mH
Qms	7.14
Qes	2.27
Qts	1.73
Vas	0.06 cu.ft., 1.7 liters
Vd	52.5 cc
Cms	0.01 mm/N
BL	9.5 T-M
Mms	18 grams
EBP	143
Xmax	1.5 mm
Sd	350.1 cm2
Xlim	3 mm

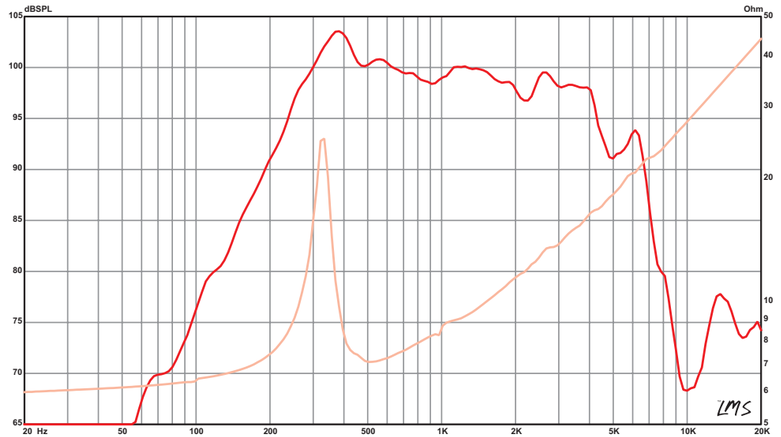
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	N/A
Driver Volume Displaced	0.039 cu.ft., 1.1 liters
Overall Diameter	10.09″, 256.3 mm
Baffle Hole Diameter	9.18″, 233.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25″, 6.4 mm
Mounting Holes B.C.D.	9.66″, 245.4 mm
Depth	3.56″, 90.4 mm
Net Weight	7.3 lbs , 3.31 kg
Shipping Weight	8.3 lbs , 3.76 kg

MATERIALS OF CONSTRUCTION

- Aluminum voice coil
- Polyimide former
- Ferrite magnet
- Non-Vented core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

BETA-10CX

Recommended for professional audio vocal wedges, or midbass in a sealed enclosure. Also works well in a vented enclosure as a satellite or monitor.

- **500 W** Program Power
- **10″** Nominal Diameter
- **8 Ω**

The data for this coaxial woofer was calculated with the ASD:1001 driver screwed into the woofer, but not active.

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	10″, 254 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	500 W
Nominal Power	250 W
Resonance	49 Hz
Usable Frequency Range	60 Hz – 4 kHz
Sensitivity*	94.3 dB
Magnet Weight	38 oz.
Gap Height	0.312″, 7.9 mm
Voice Coil Diameter	2″, 51 mm

THIELE & SMALL PARAMETERS

Fs	49 Hz
Re	5.48 Ω
Le	0.67 mH
Qms	6.16
Qes	0.41
Qts	0.38
Vas	2.16 cu.ft., 61.1 liters
Vd	172.5 cc
Cms	0.37 mm/N
BL	10.88 T-M
Mms	29 grams
EBP	120
Xmax	5 mm
Sd	344.9 cm2
Xlim	7.6 mm

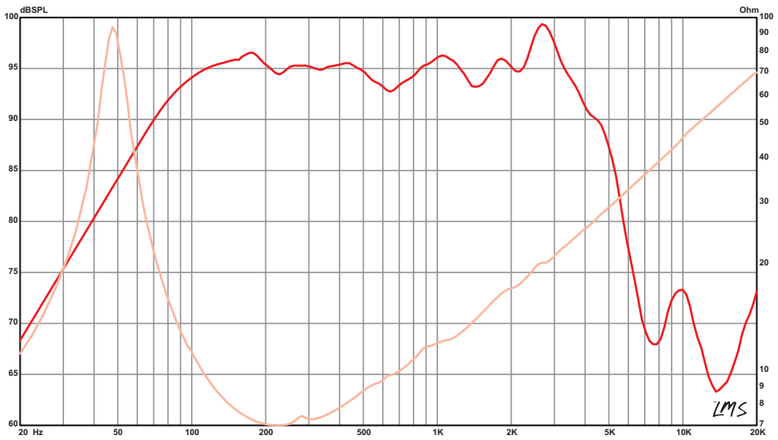
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	14.16–42.48 liters, 0.5–1.5 cu.ft.
Vented	15.29–87.78 liters, 0.54–3.1 cu.ft.
Driver Volume Displaced	0.041 cu.ft., 1.17 liters
Overall Diameter	10.08″, 256 mm
Baffle Hole Diameter	9.18″, 233.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25″, 6.4 mm
Mounting Holes B.C.D.	9.66″, 245.4 mm
Depth	3.98″, 101.1 mm
Net Weight	7.3 lbs , 3.31 kg
Shipping Weight	8.4 lbs , 3.81 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Kapton former
- Ferrite magnet
- Tapered Coax
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

BETA-12A-2

One of our most versatile woofers for pro audio and bass guitar applications. A popular replacement for two-way systems. Also works well in a sealed or bandpass enclosure.

- **500 W** Program Power
- **12″** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	✔
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	12″, 305 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	500 W
Nominal Power	250 W
Resonance	47 Hz
Usable Frequency Range	43 Hz – 3.8 kHz
Sensitivity*	98 dB
Magnet Weight	38 oz.
Gap Height	0.312″, 7.9 mm
Voice Coil Diameter	2″, 51 mm

THIELE & SMALL PARAMETERS

Fs	47 Hz
Re	5 Ω
Le	0.64 mH
Qms	6
Qes	0.5
Qts	0.46
Vas	4.24 cu.ft., 120.1 liters
Vd	237 cc
Cms	0.29 mm/N
BL	10.8 T-M
Mms	40 grams
EBP	94
Xmax	4.4 mm
Sd	538.9 cm2
Xlim	11 mm

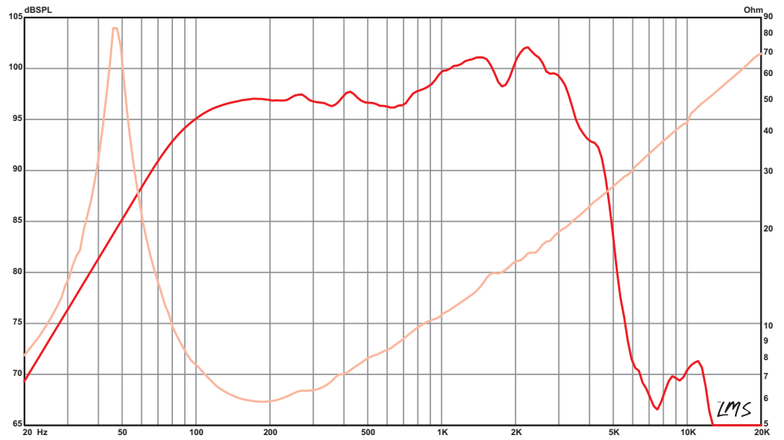
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	25.5–35.4 liters, 0.9–1.25 cu.ft.
Vented	36.8–139 liters, 1.3–4.9 cu.ft.
Driver Volume Displaced	0.071 cu.ft., 2 liters
Overall Diameter	12.03″, 305.6 mm
Baffle Hole Diameter	11.07″, 281.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25″, 6.4 mm
Mounting Holes B.C.D.	11.59″, 294.4 mm
Depth	4.57″, 116.1 mm
Net Weight	7.5 lbs , 3.4 kg
Shipping Weight	9.7 lbs , 4.4 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented and extended core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

BETA-12CX

Recommended for professional audio as a midbass in either vented, or sealed satellite or floor monitor enclosures. Also works nicely in vented two-way enclosures used for small coverage areas. Great for newer generation FRFR (full range, flat response) systems.

- **500 W** Program Power
- **12"** Nominal Diameter
- **8 Ω**

The data for this coaxial woofer was calculated with the ASD:1001 driver screwed into the woofer, but not active.

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	500 W
Nominal Power	250 W
Resonance	47 Hz
Usable Frequency Range	57 Hz – 4.6 kHz
Sensitivity*	97.3 dB
Magnet Weight	38 oz.
Gap Height	0.312", 7.9 mm
Voice Coil Diameter	2", 51 mm

THIELE & SMALL PARAMETERS

Fs	47 Hz
Re	5.42 Ω
Le	0.64 mH
Qms	5.64
Qes	0.52
Qts	0.48
Vas	4.27 cu.ft., 120.94 liters
Vd	188.6 cc
Cms	0.3 mm/N
BL	10.79 T-M
Mms	38 grams
EBP	90
Xmax	3.5 mm
Sd	538.9 cm2
Xlim	10.4 mm

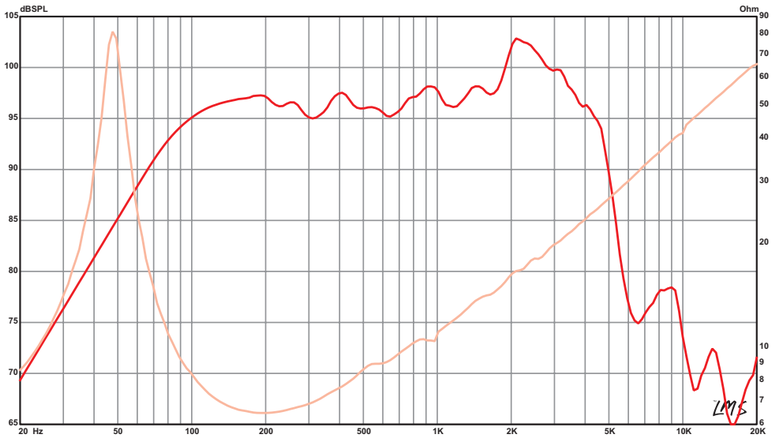
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	26.9–70.79 liters, 0.95–2.5 cu.ft.
Vented	32.85–158.58 liters, 1.16–5.6 cu.ft.
Driver Volume Displaced	0.071 cu.ft., 2 liters
Overall Diameter	12.03", 305.6 mm
Baffle Hole Diameter	11.07", 281.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25", 6.4 mm
Mounting Holes B.C.D.	11.59", 294.4 mm
Depth	4.47", 113.5 mm
Net Weight	7.8 lbs , 3.54 kg
Shipping Weight	10 lbs , 4.54 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Kapton former
- Ferrite magnet
- Tapered Coax
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Screened cloth dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

BETA-12LTA

Recommended for professional audio as a woofer in small sealed monitors, or as a PA woofer or monitor in a vented enclosure.

- **450 W** Program Power
- **12"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	450 W
Nominal Power	225 W
Resonance	45 Hz
Usable Frequency Range	48 Hz – 8 kHz
Sensitivity*	97.7 dB
Magnet Weight	38 oz.
Gap Height	0.312", 7.9 mm
Voice Coil Diameter	2", 51 mm

THIELE & SMALL PARAMETERS

Fs	45 Hz
Re	7.37 Ω
Le	0.83 mH
Qms	6.44
Qes	0.55
Qts	0.51
Vas	4.81 cu.ft., 136.3 liters
Vd	170 cc
Cms	0.34 mm/N
BL	11.7 T-M
Mms	36 grams
EBP	82
Xmax	3.2 mm
Sd	532.4 cm2
Xlim	8 mm

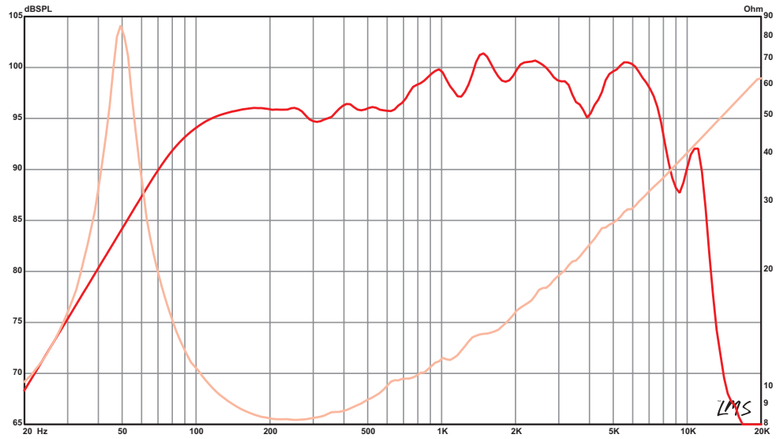
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	14–51 liters, 0.5–1.8 cu.ft.
Vented	56.6–116 liters, 2–4.1 cu.ft.
Driver Volume Displaced	0.071 cu.ft., 2 liters
Overall Diameter	12.03", 305.6 mm
Baffle Hole Diameter	11.07", 281.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25", 6.4 mm
Mounting Holes B.C.D.	11.59", 294.4 mm
Depth	4.47", 113.5 mm
Net Weight	8.1 lbs , 3.67 kg
Shipping Weight	10.2 lbs , 4.63 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

BETA-15A

Recommended for professional audio as a woofer in sealed and vented enclosures. Also works great for midbass and bass guitar applications.

- **600 W** Program Power
- **15”** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	15”, 381 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	600 W
Nominal Power	300 W
Resonance	35 Hz
Usable Frequency Range	45 Hz – 3.7 kHz
Sensitivity*	98.2 dB
Magnet Weight	34 oz.
Gap Height	0.312”, 7.9 mm
Voice Coil Diameter	2”, 51 mm

THIELE & SMALL PARAMETERS

Fs	35 Hz
Re	6.32 Ω
Le	1.1 mH
Qms	8.1
Qes	0.63
Qts	0.58
Vas	11.82 cu.ft., 334.6 liters
Vd	330 cc
Cms	0.35 mm/N
BL	11.5 T-M
Mms	60 grams
EBP	56
Xmax	4 mm
Sd	823.7 cm2
Xlim	11.6 mm

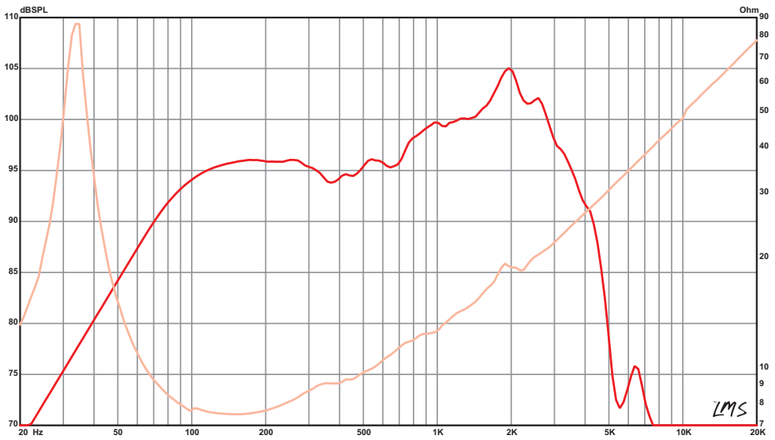
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	45–62 liters, 1.6–2.2 cu.ft.
Vented	99–175.6 liters, 3.5–6.2 cu.ft.
Driver Volume Displaced	0.118 cu.ft., 3.33 liters
Overall Diameter	15.15”, 384.8 mm
Baffle Hole Diameter	13.87”, 352.3 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25”, 6.4 mm
Mounting Holes B.C.D.	14.56”, 369.8 mm
Depth	6.05”, 153.7 mm
Net Weight	8.8 lbs , 3.99 kg
Shipping Weight	10.8 lbs , 4.9 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented and extended core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

DELTA-10A

Recommended for professional audio and bass guitar applications as a woofer/midbass or midrange in vented monitors, satellites and multi-way enclosures.

- **700 W** Program Power
- **10”** Nominal Diameter
- **8** or **16 Ω**

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	✔
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	10”, 254 mm
Nominal Impedance*	8 or 16 Ω
Power Rating*	
Program Power	700 W
Nominal Power	350 W
Resonance	66 Hz
Usable Frequency Range	63 Hz – 3.7 kHz
Sensitivity*	98.8 dB
Magnet Weight	56 oz.
Gap Height	0.375”, 9.5 mm
Voice Coil Diameter	2.5”, 64 mm

THIELE & SMALL PARAMETERS

Fs	66 Hz
Re	5.42 Ω
Le	0.74 mH
Qms	6.53
Qes	0.35
Qts	0.33
Vas	1.08 cu.ft., 30.5 liters
Vd	121 cc
Cms	0.18 mm/N
BL	14.4 T-M
Mms	32 grams
EBP	189
Xmax	3.5 mm
Sd	344.9 cm2
Xlim	9.4 mm

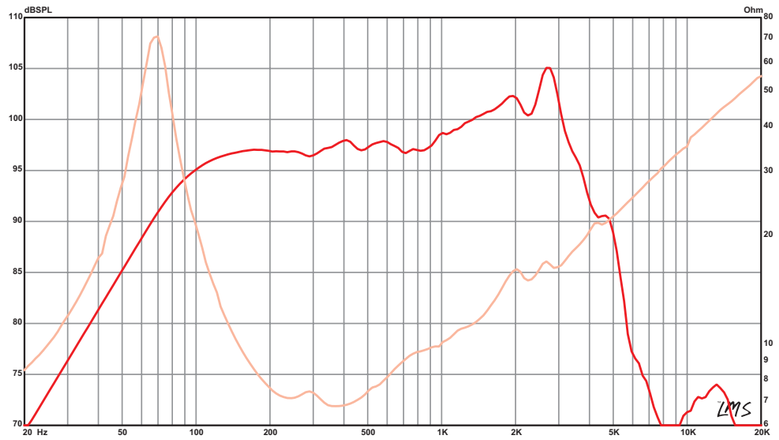
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	12.7–37.9 liters, 0.45–1.34 cu.ft.
Driver Volume Displaced	0.05 cu.ft., 1.42 liters
Overall Diameter	10.09”, 256.3 mm
Baffle Hole Diameter	9.18”, 233.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25”, 6.4 mm
Mounting Holes B.C.D.	9.66”, 245.4 mm
Depth	4.25”, 108 mm
Net Weight	10.8 lbs , 4.9 kg
Shipping Weight	12 lbs , 5.44 kg

MATERIALS OF CONSTRUCTION

- Aluminum voice coil
- Polyimide former
- Ferrite magnet
- Vented core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

DELTA-12A

Recommended for professional audio as a midbass or woofer (with high-pass filter) in vented enclosures.

- **800 W** Program Power
- **12"** Nominal Diameter
- **8** or **16 Ω**

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 or 16 Ω
Power Rating*	
Program Power	800 W
Nominal Power	400 W
Resonance	55 Hz
Usable Frequency Range	54 Hz – 5 kHz
Sensitivity*	98.3 dB
Magnet Weight	56 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	2.5", 64 mm

THIELE & SMALL PARAMETERS

Fs	55 Hz
Re	6.3 Ω
Le	0.74 mH
Qms	5.27
Qes	0.46
Qts	0.43
Vas	2.87 cu.ft., 81.3 liters
Vd	125 cc
Cms	0.21 mm/N
BL	13.5 T-M
Mms	39 grams
EBP	120
Xmax	2.4 mm
Sd	519.5 cm2
Xlim	9.9 mm

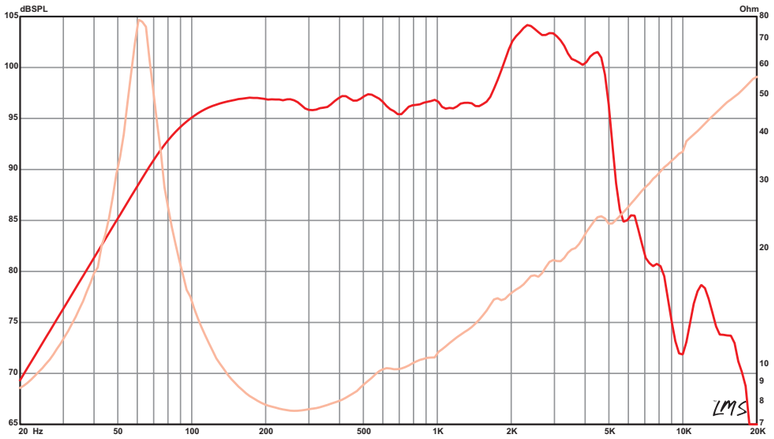
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	25.5–85 liters, 0.9–3 cu.ft.
Driver Volume Displaced	0.079 cu.ft., 2.25 liters
Overall Diameter	12.03", 305.6 mm
Baffle Hole Diameter	11.07", 281.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25", 6.4 mm
Mounting Holes B.C.D.	11.59", 294.4 mm
Depth	5.35", 135.9 mm
Net Weight	11.4 lbs , 5.17 kg
Shipping Weight	13.5 lbs , 6.12 kg

MATERIALS OF CONSTRUCTION

- Aluminum voice coil
- Polyimide former
- Ferrite magnet
- Vented core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition felt dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

DELTA-12LFA

Low frequency woofer for pro audio midbass or floor monitor applications in a sealed enclosure. Also suitable as a woofer in vented bass guitar or PA enclosures.

- **1000 W** Program Power
- **12"** Nominal Diameter
- **8** or **4 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer	✔	Horn Loading	✔
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 or 4 Ω
Power Rating*	
Program Power	1000 W
Nominal Power	500 W
Resonance	51 Hz
Usable Frequency Range	44 Hz – 3 kHz
Sensitivity*	94.6 dB
Magnet Weight	56 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	2.5", 64 mm

THIELE & SMALL PARAMETERS

Fs	51 Hz
Re	6.06 Ω
Le	1.45 mH
Qms	7.28
Qes	0.51
Qts	0.47
Vas	2.4 cu.ft., 67.9 liters
Vd	243 cc
Cms	0.19 mm/N
BL	14.1 T-M
Mms	51 grams
EBP	100
Xmax	4.8 mm
Sd	506.7 cm2
Xlim	13.5 mm

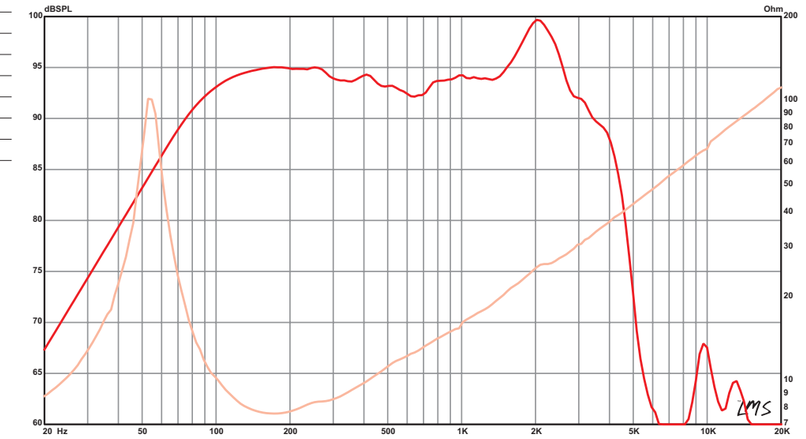
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	19.8–28 liters, 0.7–1 cu.ft.
Vented	25.5–102 liters, 0.9–3.6 cu.ft.
Driver Volume Displaced	0.079 cu.ft., 2.25 liters
Overall Diameter	12.03", 305.6 mm
Baffle Hole Diameter	11.07", 281.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25", 6.4 mm
Mounting Holes B.C.D.	11.59", 294.4 mm
Depth	5.35", 135.9 mm
Net Weight	11.8 lbs , 5.35 kg
Shipping Weight	14 lbs , 6.35 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented and extended core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

DELTA-15A

Recommended for professional audio as a midbass or vocal wedge in a sealed enclosure. Also suitable as a midbass or woofer in vented enclosures.

- **800 W** Program Power
- **15"** Nominal Diameter
- **8** or **16 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 or 16 Ω
Power Rating*	
Program Power	800 W
Nominal Power	400 W
Resonance	40 Hz
Usable Frequency Range	48 Hz – 4 kHz
Sensitivity*	100 dB
Magnet Weight	56 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	2.5", 64 mm

THIELE & SMALL PARAMETERS

Fs	40 Hz
Re	6.3 Ω
Le	0.64 mH
Qms	8.05
Qes	0.57
Qts	0.53
Vas	9.56 cu.ft., 270.7 liters
Vd	233 cc
Cms	0.26 mm/N
BL	13.2 T-M
Mms	62 grams
EBP	70
Xmax	2.7 mm
Sd	864.6 cm2
Xlim	11.1 mm

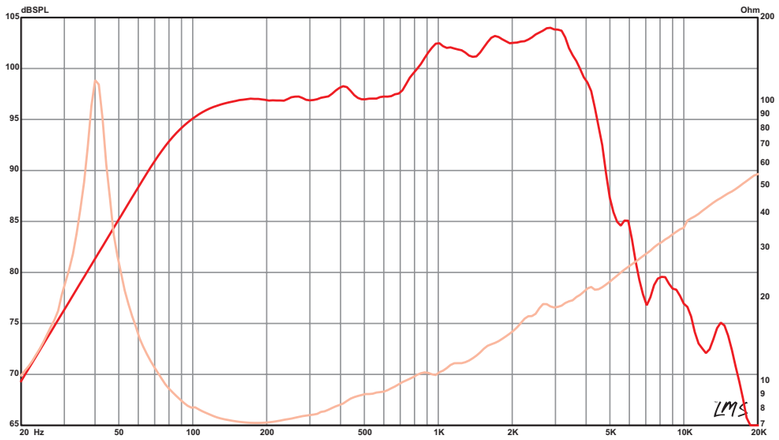
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	37–42.5 liters, 1.3–1.5 cu.ft.
Vented	82–161.4 liters, 2.9–5.7 cu.ft.
Driver Volume Displaced	0.128 cu.ft., 3.62 liters
Overall Diameter	15.15", 384.8 mm
Baffle Hole Diameter	13.87", 352.3 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25", 6.4 mm
Mounting Holes B.C.D.	14.56", 369.8 mm
Depth	6.05", 153.7 mm
Net Weight	12.3 lbs , 5.58 kg
Shipping Weight	14.4 lbs , 6.53 kg

MATERIALS OF CONSTRUCTION

- Aluminum voice coil
- Polyimide former
- Ferrite magnet
- Vented core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

DELTA-15LFA

Low frequency woofer for pro audio as a midbass or floor monitor in a sealed enclosure. Also suitable as a woofer in vented bass guitar or PA enclosures.

- **1000 W** Program Power
- **15"** Nominal Diameter
- **8** or **4 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer	✔	Horn Loading	
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 or 4 Ω
Power Rating*	
Program Power	1000 W
Nominal Power	500 W
Resonance	39 Hz
Usable Frequency Range	42 Hz – 3.2 kHz
Sensitivity*	96 dB
Magnet Weight	56 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	2.5", 64 mm

THIELE & SMALL PARAMETERS

Fs	39 Hz
Re	6.11 Ω
Le	1.37 mH
Qms	6.3
Qes	0.52
Qts	0.48
Vas	8.51 cu.ft., 241 liters
Vd	419 cc
Cms	0.23 mm/N
BL	14.6 T-M
Mms	75 grams
EBP	75
Xmax	4.8 mm
Sd	873 cm2
Xlim	16.5 mm

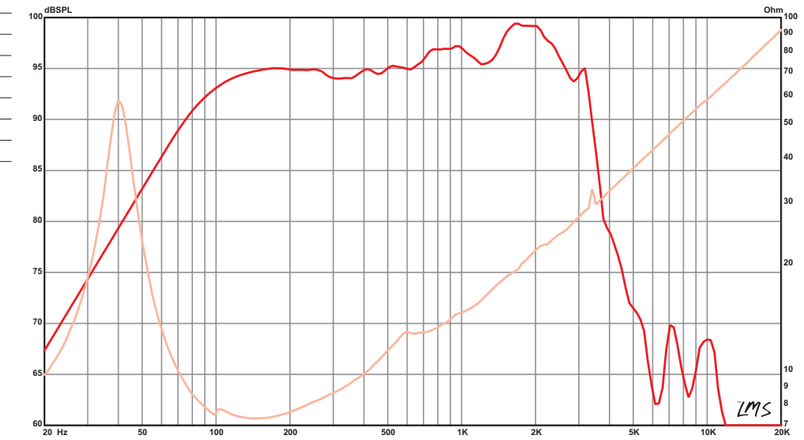
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	36.8–42.5 liters, 1.3–1.5 cu.ft.
Vented	85–167 liters, 3–5.9 cu.ft.
Driver Volume Displaced	0.128 cu.ft., 3.62 liters
Overall Diameter	15.15", 384.8 mm
Baffle Hole Diameter	13.87", 352.3 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25", 6.4 mm
Mounting Holes B.C.D.	14.56", 369.8 mm
Depth	6.3", 160 mm
Net Weight	12.8 lbs , 5.81 kg
Shipping Weight	14.8 lbs , 6.71 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented and extended core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

KAPPA-12A

Recommended for professional audio as a mid/hi or full range in a vented enclosure.

- **900 W** Program Power
- **12"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	✔
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	900 W
Nominal Power	450 W
Resonance	45 Hz
Usable Frequency Range	62 Hz – 4.2 kHz
Sensitivity*	99.3 dB
Magnet Weight	80 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	3", 76 mm

THIELE & SMALL PARAMETERS

Fs	45 Hz
Re	5.41 Ω
Le	0.77 mH
Qms	7.76
Qes	0.28
Qts	0.27
Vas	3.96 cu.ft., 112.1 liters
Vd	166 cc
Cms	0.3 mm/N
BL	15.2 T-M
Mms	42 grams
EBP	161
Xmax	3.2 mm
Sd	519.5 cm2
Xlim	11.5 mm

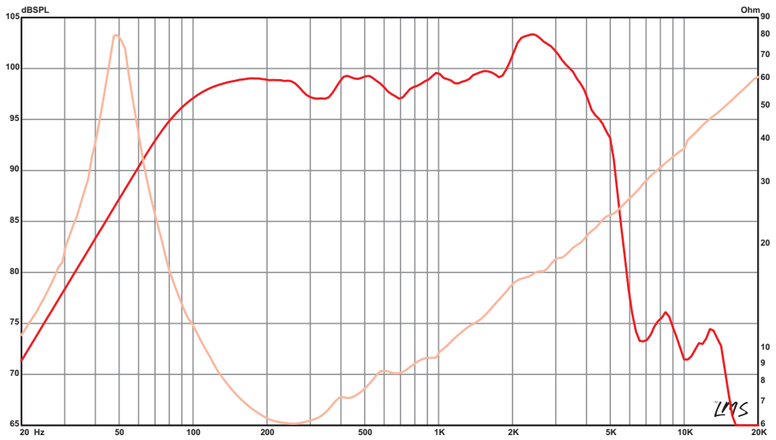
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	34–62 liters, 1.2–2.2 cu.ft.
Driver Volume Displaced	0.09 cu.ft., 2.55 liters
Overall Diameter	12.26", 311.4 mm
Baffle Hole Diameter	11", 279.4 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25", 6.4 mm
Mounting Holes B.C.D.	11.71", 297.4 mm
Depth	5.63", 143 mm
Net Weight	14.9 lbs , 6.76 kg
Shipping Weight	17.9 lbs , 8.12 kg

MATERIALS OF CONSTRUCTION

- Aluminum voice coil
- Polyimide former
- Ferrite magnet
- Vented core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

KAPPA-15A

Recommended for professional audio in a vented midbass or bass enclosure. Great for monitors and two-way systems.

- **900 W** Program Power
- **15"** Nominal Diameter
- **8** or **4 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer		Horn Loading	✔
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 or 4 Ω
Power Rating*	
Program Power	900 W
Nominal Power	450 W
Resonance	33 Hz
Usable Frequency Range	52 Hz – 2.3 kHz
Sensitivity*	100.5 dB
Magnet Weight	80 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	3", 76 mm

THIELE & SMALL PARAMETERS

Fs	33 Hz
Re	5.22 Ω
Le	1.05 mH
Qms	8.9
Qes	0.33
Qts	0.32
Vas	11.35 cu.ft., 321.3 liters
Vd	343 cc
Cms	0.31 mm/N
BL	15.7 T-M
Mms	76 grams
EBP	98
Xmax	4 mm
Sd	856.3 cm2
Xlim	11.6 mm

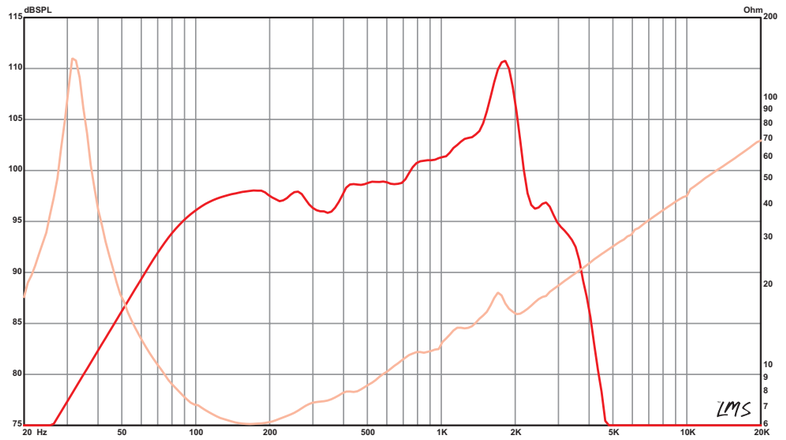
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	45–113 liters, 1.6–4 cu.ft.
Driver Volume Displaced	0.138 cu.ft., 3.92 liters
Overall Diameter	15.16", 385.1 mm
Baffle Hole Diameter	13.87", 352.3 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25", 6.4 mm
Mounting Holes B.C.D.	14.56", 369.8 mm
Depth	6.13", 155.7 mm
Net Weight	17.6 lbs , 7.98 kg
Shipping Weight	19.8 lbs , 8.98 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

KAPPA-15LFA

Low frequency woofer for pro audio in a vented midbass or bass enclosure. Also suitable for bass guitar.

- **1200 W** Program Power
- **15"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange		Sealed Box	
Midbass	✔	Vented Box	✔
Woofer	✔	Scoop Loading	
Subwoofer	✔	Horn Loading	✔
Bass Guitar	✔		

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	1200 W
Nominal Power	600 W
Resonance	39 Hz
Usable Frequency Range	38 Hz – 2.7 kHz
Sensitivity*	99 dB
Magnet Weight	95 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	3", 76 mm

THIELE & SMALL PARAMETERS

Fs	39 Hz
Re	5.4 Ω
Le	1.27 mH
Qms	6.08
Qes	0.41
Qts	0.38
Vas	5.62 cu.ft., 159 liters
Vd	471 cc
Cms	0.15 mm/N
BL	18.6 T-M
Mms	105 grams
EBP	95
Xmax	5.5 mm
Sd	856.3 cm2
Xlim	10.4 mm

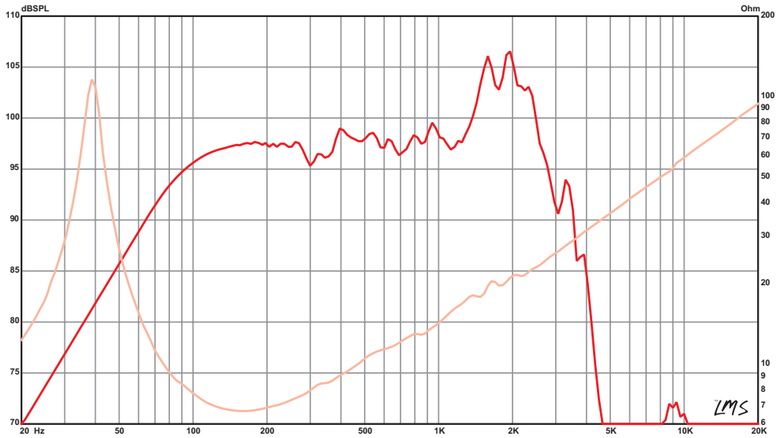
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	62–193 liters, 2.2–6.8 cu.ft.
Driver Volume Displaced	0.145 cu.ft., 4.12 liters
Overall Diameter	15.16", 385.1 mm
Baffle Hole Diameter	13.87", 352.3 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25", 6.4 mm
Mounting Holes B.C.D.	14.56", 369.8 mm
Depth	6.38", 162.1 mm
Net Weight	20 lbs , 9.07 kg
Shipping Weight	22.3 lbs , 10.12 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

LA6-CBMR

Recommended for pro audio midrange applications from 500Hz-3kHz. Features a closed truncated basket for close spacing in line-arrays. Use it in a two-way box for better bass tone.

- **300 W** Program Power
- **6.5"** Nominal Diameter
- **8 Ω**

APPLICATION		ENCLOSURE	
Midrange	✔	Sealed Box	
Midbass		Vented Box	
Woofer		Scoop Loading	
Subwoofer		Horn Loading	✔
Bass Guitar			

SPECIFICATION

Nominal Basket Diameter	6.5", 165 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	300 W
Nominal Power	150 W
Resonance	460 Hz
Usable Frequency Range	500 Hz – 5.4 kHz
Sensitivity*	97.8 dB
Magnet Weight	38 oz.
Gap Height	0.31", 7.9 mm
Voice Coil Diameter	1.5", 38 mm

THIELE & SMALL PARAMETERS

Fs	460 Hz
Re	6.3 Ω
Le	0.33 mH
Qms	3.13
Qes	1.24
Qts	0.89
Vas	0.01 cu.ft., 0.4 liters
Vd	2.7 cc
Cms	0.01 mm/N
BL	11.1 T-M
Mms	9 grams
EBP	371
Xmax	0.2 mm
Sd	133.1 cm2
Xlim	0.8 mm

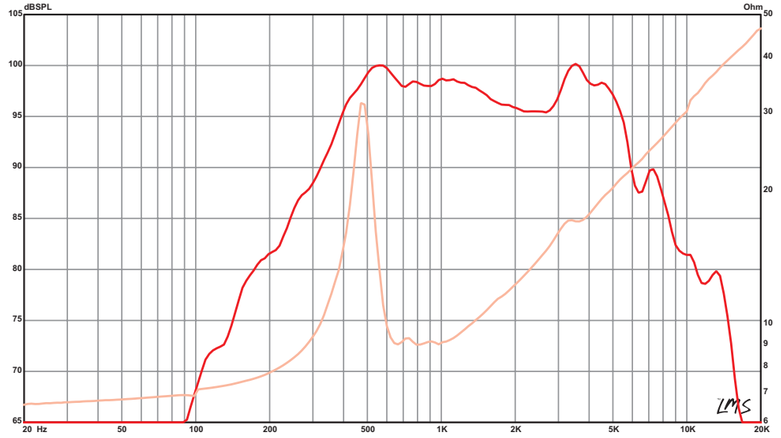
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	N/A
Driver Volume Displaced	0.022 cu.ft., 0.62 liters
Major Diameter	6.59", 167.4 mm
Flat to Flat Diameter	6.0", 152.4 mm
Baffle Hole Diameter	5.65", 143.5 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	N/A
Mounting Holes Diameter	0.23", 5.8 mm
Mounting Holes B.C.D.	6.06", 153.9 mm
Depth	2.77", 70.4 mm
Net Weight	6.7 lbs , 3.04 kg
Shipping Weight	7.2 lbs , 3.27 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented and extended core
- Pressed steel basket with truncated sides
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

A NEW STANDARD IN HIGH FREQUENCY.

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From low-pass and high-pass filters, to two-way and three-way units with multiple crossover point options, and L-PADs for more custom HF level control, there is an Eminence crossover solution to meet your needs.

See Driver and Horn Flare usage guide on page 91 for product compatibility.

DAMPED DIAMETRIC DRIVE D3

N314T-8

☐ SCREW-ON
☑ BOLT-ON

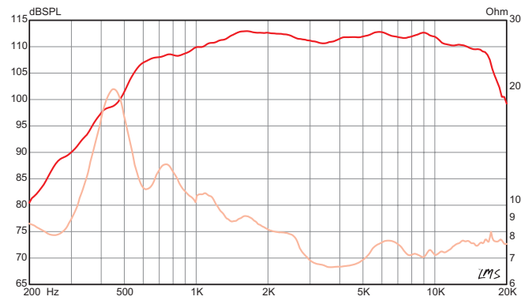
SPECIFICATION

Throat Size	1.4", 35.6 mm
Nominal Impedance*	8 Ω
Minimum Impedance	6.7 ohm @ 3.7 kHz
Power Rating*	100 W (AES)
Resonance	550 Hz
DC Resistance (Re)	4.80 Ω
Usable Frequency Range	800 Hz - 20 kHz
Recommended Crossover	800 Hz / 12 dB
Sensitivity*	110.9 dB
Magnet Material	Neodymium
Magnet Weight	11 oz, 0.31 kg
Voice Coil Diameter	3.0", 76 mm
Voice Coil Former	Polyimide
Diaphragm Material	Titanium

MOUNTING INFORMATION

Overall Diameter	5.72", 145.3 mm
Driver Volume Displaced	0.023 cu.ft., 0.66 liters
Depth	2.53", 64.3 mm
Net Weight	5.1 lb, 2.3 kg
Shipping Weight	5.4 lb, 2.4 kg
Mounting Thread	N/A
Mounting Holes Diameter	4X 1/4-20
Mounting Holes B.C.D.	4.00", 101.6 mm

FREQUENCY RESPONSE & IMPEDANCE CURVE*



N320T-8

☐ SCREW-ON
☑ BOLT-ON

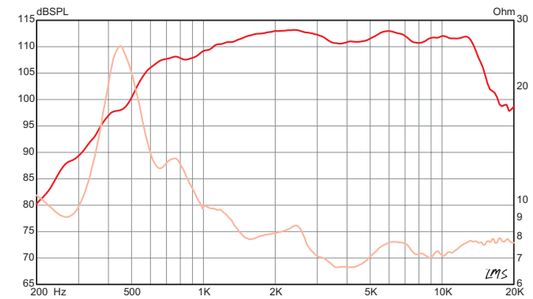
SPECIFICATION

Throat Size	2.0", 50.8 mm
Nominal Impedance*	8 Ω
Minimum Impedance	6.7 ohm @ 3.6 kHz
Power Rating*	100 W (AES)
Resonance	521 Hz
DC Resistance (Re)	4.80 Ω
Usable Frequency Range	800 Hz - 20 kHz
Recommended Crossover	800 Hz / 12 dB
Sensitivity*	110.4 dB
Magnet Material	Neodymium
Magnet Weight	11 oz, 0.31 kg
Voice Coil Diameter	3.0", 76 mm
Voice Coil Former	Polyimide
Diaphragm Material	Titanium

MOUNTING INFORMATION

Overall Diameter	5.72", 145.3 mm
Driver Volume Displaced	0.028 cu.ft., 0.81 liters
Depth	3.10", 78.7 mm
Net Weight	5.5 lb, 2.5 kg
Shipping Weight	5.8 lb, 2.6 kg
Mounting Thread	N/A
Mounting Holes Diameter	4X 1/4-20
Mounting Holes B.C.D.	4.00", 101.6 mm

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

See Driver and Horn Flare usage guide on page 91 for product compatibility.

APT:50

☑ SCREW-ON
☐ BOLT-ON

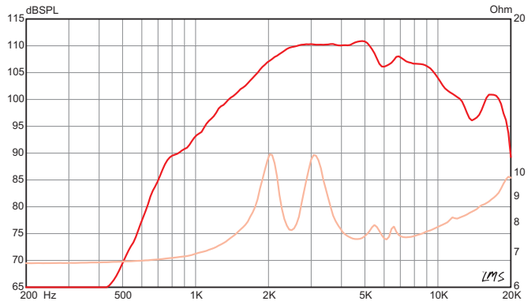
SPECIFICATION

Throat Size	1.0", 25.4 mm
Nominal Impedance*	8 Ω
Minimum Impedance	7.4 ohm @ 6.1 kHz
Power Rating*	35 W (AES)
Resonance	2.1 kHz
DC Resistance (Re)	6.30 Ω
Usable Frequency Range	3.5 kHz - 20 kHz
Recommended Crossover	3.5 kHz / 12 dB
Sensitivity*	104.7 dB
Magnet Material	Ferrite
Magnet Weight	8 oz, 0.23 kg
Voice Coil Diameter	1.0", 25 mm
Voice Coil Former	Kapton
Diaphragm Material	Phenolic

MOUNTING INFORMATION

Overall Diameter	2.75", 69.9 mm
Driver Volume Displaced	0.004 cu.ft., 0.12 liters
Depth	2.53", 64.3 mm
Net Weight	1.70 lb, 0.8 kg
Shipping Weight	2.00 lb, 0.9 kg
Mounting Thread	Use Apt Horn or Adapter
Mounting Holes Diameter	N/A
Mounting Holes B.C.D.	N/A

FREQUENCY RESPONSE & IMPEDANCE CURVE*



ASD:1001

☑ SCREW-ON
☑ BOLT-ON

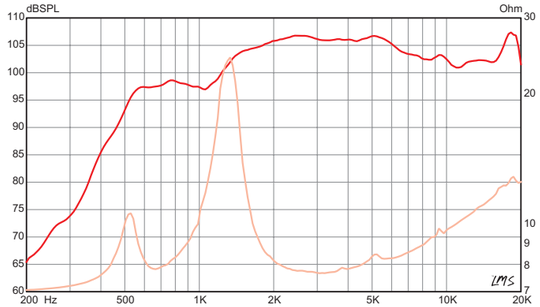
SPECIFICATION

Throat Size	1.0", 25.4 mm
Nominal Impedance*	8 Ω
Minimum Impedance	7.7 ohm @ 3.0 kHz
Power Rating*	50 W (EIA-426A)
Resonance	592 Hz
DC Resistance (Re)	6.70 Ω
Usable Frequency Range	2.5 kHz - 20 kHz
Recommended Crossover	2.5 kHz / 18 dB
Sensitivity*	104.4 dB
Magnet Material	Ferrite
Magnet Weight	12 oz, 0.34 kg
Voice Coil Diameter	1.3", 33 mm
Voice Coil Former	Aluminum
Diaphragm Material	Titanium

MOUNTING INFORMATION

Overall Diameter	3.50", 88.9 mm
Driver Volume Displaced	0.009 cu.ft., 0.26 liters
Depth	2.45", 62.2 mm
Net Weight	1.70 lb, 0.8 kg
Shipping Weight	2.00 lb, 0.9 kg
Mounting Thread	1 3/8 in. 18 ext.
Mounting Holes Diameter	2X M6
Mounting Holes B.C.D.	3.0", 76.2 mm

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

See Driver and Horn Flare usage guide on page 91 for product compatibility.

COMPRESSION DRIVERS

PSD:2002-8

☑ SCREW-ON
☑ BOLT-ON

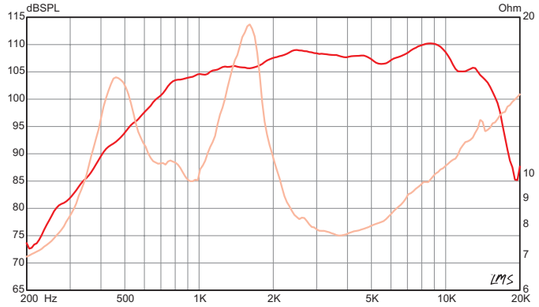
SPECIFICATION

Throat Size	1.0", 25.4 mm
Nominal Impedance*	8 or 16 Ω
Minimum Impedance	7.6 ohm @ 3.7 kHz
Power Rating*	80 W (AES)
Resonance	540 Hz
DC Resistance (Re)	6.10 Ω
Usable Frequency Range	1.2 kHz - 20 kHz
Recommended Crossover	1.2 kHz / 12 dB
Sensitivity*	106.1 dB
Magnet Material	Ferrite
Magnet Weight	34 oz, 0.96 kg
Voice Coil Diameter	2.0", 51 mm
Voice Coil Former	Polyimide
Diaphragm Material	Titanium

MOUNTING INFORMATION

Overall Diameter	5.25", 133.4 mm
Driver Volume Displaced	0.018 cu.ft., 0.50 liters
Depth	2.20", 55.9 mm
Net Weight	4.70 lb, 2.1 kg
Shipping Weight	5.00 lb, 2.3 kg
Mounting Thread	1 3/8 in. 18 ext.
Mounting Holes Diameter	2X 1/4-20 or 3x M6
Mounting Holes B.C.D.	3.0", 76.2 mm

FREQUENCY RESPONSE & IMPEDANCE CURVE*



PSD:2013-8

☑ SCREW-ON
☑ BOLT-ON

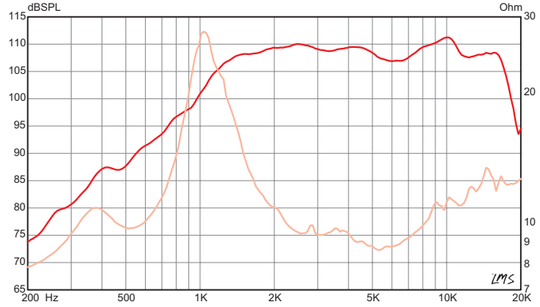
SPECIFICATION

Throat Size	1.0", 25.4 mm
Nominal Impedance*	8 or 16 Ω
Minimum Impedance	8.7 ohm @ 5.3 kHz
Power Rating*	85 W (AES)
Resonance	438 Hz
DC Resistance (Re)	6.80 Ω
Usable Frequency Range	1.5 kHz - 20 kHz
Recommended Crossover	1.5 kHz / 12 dB
Sensitivity*	108.3 dB
Magnet Material	Ferrite
Magnet Weight	34 oz, 0.96 kg
Voice Coil Diameter	2.0", 51 mm
Voice Coil Former	Polymide
Diaphragm Material	Titanium

MOUNTING INFORMATION

Overall Diameter	5.25", 133.4 mm
Driver Volume Displaced	0.018 cu.ft., 0.51 liters
Depth	2.30", 58.4 mm
Net Weight	5.60 lb, 2.5 kg
Shipping Weight	5.90 lb, 2.7 kg
Mounting Thread	1 3/8 in. 18 ext.
Mounting Holes Diameter	2X 1/4-20
Mounting Holes B.C.D.	3.00", 76.2 mm

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

See Driver and Horn Flare usage guide on page 91 for product compatibility.

PSD:3014-8

☐ SCREW-ON
☑ BOLT-ON

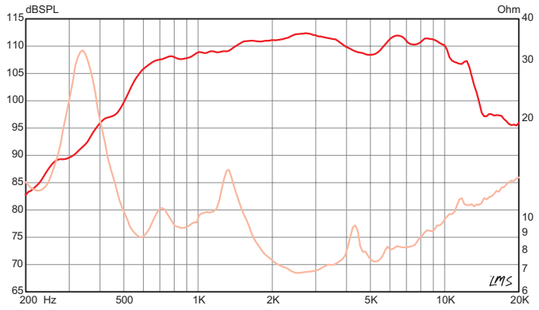
SPECIFICATION

Throat Size	1.4", 35.6 mm
Nominal Impedance*	8 Ω
Minimum Impedance	6.8 ohm @ 2.5 kHz
Power Rating*	100 W (AES)
Resonance	419 Hz
DC Resistance (Re)	4.80 Ω
Usable Frequency Range	800 Hz - 20 kHz
Recommended Crossover	800 Hz / 12 dB
Sensitivity*	108.4 dB
Magnet Material	Ferrite
Magnet Weight	80 oz, 2.27 kg
Voice Coil Diameter	3.0", 76 mm
Voice Coil Former	Polyimide
Diaphragm Material	Titanium w/ geodesic ribs for increased stiffness and break-up control.

MOUNTING INFORMATION

Overall Diameter	7.90", 200.7 mm
Driver Volume Displaced	0.048 cu.ft., 1.36 liters
Depth	3.10", 78.7 mm
Net Weight	13.40 lb, 6.1 kg
Shipping Weight	13.70 lb, 6.2 kg
Mounting Thread	
Mounting Holes Diameter	4X 1/4-20
Mounting Holes B.C.D.	4.00", 101.6 mm

FREQUENCY RESPONSE & IMPEDANCE CURVE*



PSD:3006-8

☐ SCREW-ON
☑ BOLT-ON

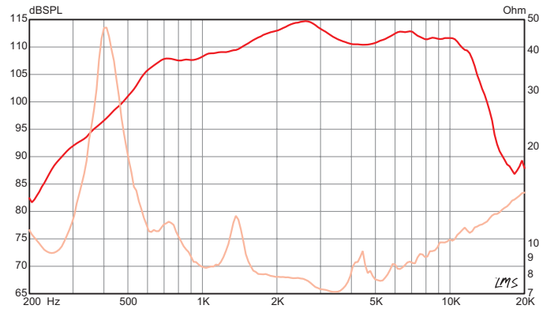
SPECIFICATION

Throat Size	2.0", 50.8 mm
Nominal Impedance*	8 Ω
Minimum Impedance	7.1 ohm @ 3.4 kHz
Power Rating*	100 W (AES)
Resonance	470 Hz
DC Resistance (Re)	4.80 Ω
Usable Frequency Range	800 Hz - 20 kHz
Recommended Crossover	800 Hz / 12 dB
Sensitivity*	108.8 dB
Magnet Material	Ferrite
Magnet Weight	80 oz, 2.27 kg
Voice Coil Diameter	3.0", 76 mm
Voice Coil Former	Polyimide
Diaphragm Material	Titanium w/ geodesic ribs for increased stiffness and break-up control.

MOUNTING INFORMATION

Overall Diameter	7.90", 200.7 mm
Driver Volume Displaced	0.048 cu.ft., 1.36 liters
Depth	3.10", 78.7 mm
Net Weight	13.20 lb, 6.0 kg
Shipping Weight	13.50 lb, 6.1 kg
Mounting Thread	
Mounting Holes Diameter	4X 1/4-20
Mounting Holes B.C.D.	4.0", 101.6 mm

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

See Driver and Horn Flare usage guide on page 91 for product compatibility.

NSD:2005-8

☑ SCREW-ON
☑ BOLT-ON

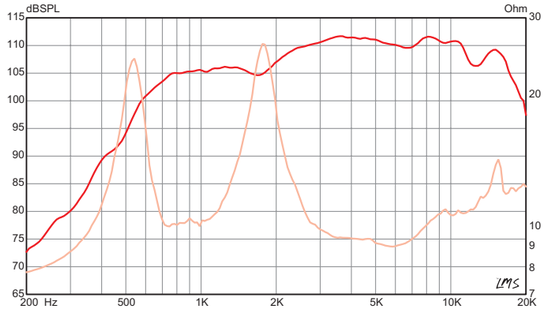
SPECIFICATION

Throat Size	1.0", 25.4 mm
Nominal Impedance*	8 or 16 Ω
Minimum Impedance	9.0 ohm @ 5.9 kHz
Power Rating*	50 W (AES)
Resonance	578 Hz
DC Resistance (Re)	6.80 Ω
Usable Frequency Range	1.5 kHz - 20 kHz
Recommended Crossover	1.5 kHz / 12 dB
Sensitivity*	109.0 dB
Magnet Material	Neodymium
Magnet Weight	4 oz, 0.11 kg
Voice Coil Diameter	2.0", 51 mm
Voice Coil Former	Polyimide
Diaphragm Material	Titanium

MOUNTING INFORMATION

Overall Diameter	3.87", 98.3 mm
Driver Volume Displaced	0.008 cu.ft., 0.22 liters
Depth	1.75", 44.5 mm
Net Weight	1.70 lb, 0.8 kg
Shipping Weight	2.00 lb, 0.9 kg
Mounting Thread	1 3/8 in. 18 ext.
Mounting Holes Diameter	2X 1/4-20
Mounting Holes B.C.D.	3.0", 76.2 mm

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

HF DRIVER USAGE GUIDE

DRIVER	HORN OPTION
N314T-8	H14EA
N320T-8	H2EA
APT:50	APT:80S
	APT:150S
	APT:200S
	BH410
	H290S
	SST1 **
ASD1001S	APT:150*
	APT200S
	H290S
	BH410
ASD1001B	H290B
	SST1

DRIVER	HORN OPTION
NSD2005S	APT:150S*
	APT:200S
	H290S
	BH410
NSD2005B	H290B
	SST1
PSD2002S	APT:200S*
	H290S*
PSD2002B	H290B
	SST1
PSD2013S	APT:200S*
	H290S*
PSD2013B	H290B
	SST1
PSD3006	H2EA

* Driver bracing recommended ** S2B Adapter required

ADAPTERS

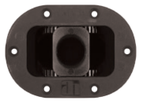
B2S-A

Aluminum adapter converts bolt-on driver to accept a screw-on horn. 2x 1/4-20 or 3x M6 driver to 1 3/8" 18 thread horn.

S2B-A

Aluminum adapter converts screw-on driver to accept a bolt-on horn. 1 3/8" 18 ext. driver to 2x 1/4-20 or 3x M6 horn.

CABINET HARDWARE



TOP HAT-CH

Adjustable-angle speaker stand receptacle for loudspeaker boxes. Vertical angle can be adjusted in 4° increments to +/- 18°. Fits SPS56B and most other standard speaker stands. Internal Ø 36mm. Max weight 55.1 lbs., 25 kg. Black polyamide. Patent pending.

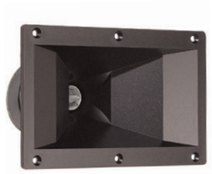
ISO-5

The ISO-5 isolation box provides a quick and cost-effective solution for chambering a 5" open-frame speaker. The molded ABS construction offers a durable and lightweight option for eliminating interference from larger woofers mounted in the same enclosure. Ideal for pro audio, MI, installed sound, and car audio applications.

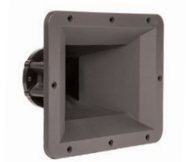
MATERIAL	ABS
WEIGHT	0.2 lbs, 0.09 kg
DEPTH	3.25", 82.6 mm
MAJOR DIAMETER	5.31", 135.0 mm
FLAT TO FLAT DIA.	4.80", 121.9 mm
CUT-OUT	4.56", 115.8 mm

HORN FLARES AND SUPERTWEETER OPTIONS

APT horn flares are available separately for use with any driver with 1 3/8" ext. thread.



	APT:80	APT:150	APT:200
Description	APT:50 Driver with APT:80S Horn	APT:50 Driver with APT:150S Horn	APT:50 Driver with APT:200S Horn
Type	Conical	Constant Directivity	Bi-Radial
Throat Size	1.0", 25.4 mm	1.0", 25.4 mm	1.0", 25.4 mm
Dispersion	80° Conical	100 x 50	90 x 90
Power Rating	35 W (AES)	35 W (AES)	35 W (AES)
Nominal Impedance	8 Ω	8 Ω	8 Ω
Minimum Impedance	7.3 Ω @ 6 kHz	7.7 Ω @ 6 kHz	7.3 Ω @ 6.1 kHz
Sensitivity	102.3 dB	102.4 dB	103 dB
Resonance	1.5 kHz	2.7 kHz	2.6 kHz
Recommended Crossover	3.5 kHz / 12 dB	3.5 kHz / 12 dB	3.5 kHz / 12 dB
Width/Height/Depth	3.40 x 3.40 x 3.70 in., 86.4 x 86.4 x 94.0 mm	7.60 x 4.50 x 5.10 in., 193.0 x 114.3 x 129.5 mm	5.90 x 6.00 x 6.30 in., 149.9 x 152.4 x 160.0 mm
Cut-out	3.15 in., 80 mm	6.7 x 3.4 in., 170 x 86 mm	4.3 x 4.4 in., 109 x 112 mm
Weight	1.80 lb., 0.82 kg	1.90 lb., 0.86 kg	2.50 lb., 1.13 kg
Material	ABS	ABS	ABS



	H290S	H14EA	H2EA	BH410	SST1
Type	Radial	Exponential	Exponential	Exponential	Constant Directivity
Throat Size	1.0", 25.4 mm	1.4", 35.6 mm	2.0", 50.8 mm	1.0", 25.4 mm	1.0", 25.4 mm
Attachment Method	Screw-on or Bolt-on (H290B)	Bolt-on	Bolt-on	Screw-on	Bolt-on
Dispersion	90 x 40	60 X 40	60 x 40	60 x 60	90 x 40
Recommended Crossover	1.0 kHz	600 Hz	700 Hz	1.2 kHz	1.0 kHz
Width/Height/Depth	11.7" x 6.6" x 6.6", 297.2 x 167.6 x 167.6 mm	12.60" x 7.50" x 7.90", 320 x 190.5 x 200.7 mm	12.4" x 7.3" x 6.1", 315 x 185.4 x 154.9 mm	5.59" x 5.59" x 4.38", 142 x 142 x 111.3 mm	9.8" x 7.7" x 5.2", 249 x 196 x 132 mm
Cut-out	9.7 x 4.9", 246 x 124 mm	11.3 x 6.1", 287 x 155 mm	11.3 x 6.3", 287 x 160 mm	3.56 x 3.56", 90.4 x 90.4 mm	8.5" x 6.4", 216 x 163 mm
Weight	1.10 lb., 0.50 kg	4.80 lb., 2.18 kg	4.90 lb., 2.22 kg	0.35 lb., 0.16 kg	1.80 lb., 0.82 kg
Material	ABS	Aluminum	Aluminum	ABS	ABS

CROSSOVERS

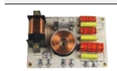
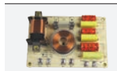
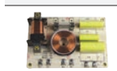
PX-BULB

Replacement bulb

PX-LPAD

Recommended for LF and HF level matching unless using our coax crossover PXB2:2k5CX.

Type: L-Pad **Impedance:** 8 ohm
Cabinet Ready: Yes **Power Handling:** 100 W

	MODEL	TYPE	CABINET READY	CROSSOVER FREQUENCY	SLOPE	IMPEDANCE	POWER HANDLING	HF LEVEL	MOUNTING CUT-OUT
	**PXB:250**	Low-pass	No	250 Hz	12 dB/octave Butterworth	8 Ω	600 W		
	**PXB:500**	Low-pass	No	500 Hz	12 dB/octave Butterworth	8 Ω	600 W		
	**PXB:1K6**	High-pass	No	1.6 kHz	18 dB/octave Butterworth	8 Ω	400 W		
	**PXB:3K5**	High-pass	No	3.5 kHz	18 dB/octave Butterworth	8 Ω	400 W		
	**PXB:5K0**	High-pass	No	5 kHz	18 dB/octave Butterworth	8 Ω	400 W		
	**PX2:5K0**	2-way	Yes	5 kHz	12 dB/octave LP 18 dB/octave HP Butterworth	8 Ω	400 W	9 dB	3.875" x 6" 98.4 x 152.4 mm
	**PXB2:500**	2-way	No	500 Hz	12 dB/octave LP 18 dB/octave HP Butterworth	8 Ω	400 W		
	**PXB2:800**	2-way	No	800 Hz	12 dB/octave LP 18 dB/octave HP Butterworth	8 Ω	400 W		
	**PXB2:1k6**	2-way	No	1.6 kHz	12 dB/octave LP 18 dB/octave HP Butterworth	8 Ω	400 W		
	**PXB2:2K5 CX**	2-way	No	2.5 kHz	12 dB/octave LP 18 dB/octave HP Custom	8 Ω	250 W		
	**PXB2:3k5**	2-way	No	3.5 kHz	12 dB/octave LP 18 dB/octave HP Butterworth	8 Ω	400 W		
	**PXB2:5K0**	2-way	No	5 kHz	12 dB/octave LP 18 dB/octave HP Butterworth	8 Ω	400 W		
	**PXB3:3K5**	3-way	No	500 Hz / 3.5 kHz	12 dB/octave LP 6 dB/octave MP 18 dB/octave HP Butterworth	8 Ω	400 W		
	**PXB3:5k0**	3-way	No	500 Hz / 5 kHz	12 dB/octave LP 6 dB/octave MP 18 dB/octave HP Butterworth	8 Ω	400 W		

FROM **VINTAGE** TO **MODERN** AND **EVERY TONE** IN BETWEEN

From rock, twang, to British spank, vintage or modern, Eminence has a model to match your style. You can find Eminence inside the world's premier guitar and bass amplifier brands, backing up the hardest working session artists and touring professionals in the music industry. Eminence is America's premier speaker manufacturer, with a history of innovation and quality. Designed and assembled in the USA with a 7-year warranty*, Eminence is the choice of guitarists the world over.

SIGNATURE SERIES

Our Signature series is a reflection of our heritage of designing custom speakers for the industry's most respected amplifier and cabinet brands. Offering versatility and a unique range of tones, make one of these models part of YOUR signature sound.

PAGE 96

LEGEND SERIES

This long-standing line of guitar speakers didn't get its name by accident. Known for their power, reliability and value, these rock-solid speakers have backed legendary players in legendary venues. If you want to sound like a legend, play one.

PAGE 102

PATRIOT SERIES

Whatever the sound, from the bayou to the blues, the Patriot series has a speaker that can deliver it. From thumping bass, mellow mid-tones or soaring highs, Patriot speakers offer different balances of that spectrum with a wide selection of models.

PAGE 111

REDCOAT SERIES

The Redcoat series captures some of the most well-known amp tones ever recorded and revered for decades. Ranging from tight and bright to growling grit, there's a Redcoat model that will bring classic sounds alive for today's players.

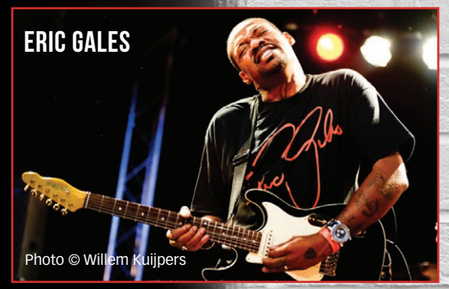
PAGE 124

BASS GUITAR

Look inside most name brand bass amps and you'll find custom designed Eminence bass guitar speakers. The people who make them know what bass players want. From fast and tight to fat and round, Eminence speakers give you the tone to hold it all together.

PAGE 140

*Warranty policy may vary outside of the continental United States and Canada. Check with your local distributor for warranty details.



ERIC GALES

Photo © Willem Kuijpers

KENNY VAUGHAN
Solo Artist / Marty Stuart

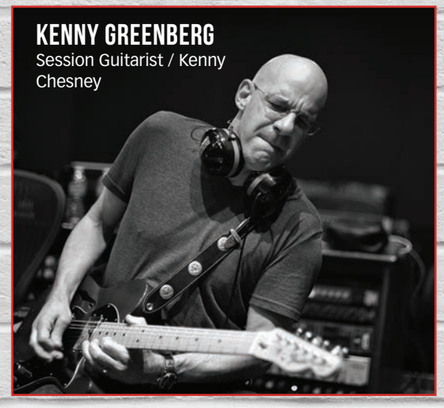
TOMO FUJITA

JOSH SMITH

COURTLAN CLEMENT
Nashville Session Musician, Jonny Lang

TRAVIS TOY
Rascal Flatts

GUTHRIE TRAPP
Session Guitarist



KENNY GREENBERG
Session Guitarist / Kenny Chesney

JEFF MATZ
Bassist / High on Fire

DAVID WALLACE
Jake Owen

PAUL JACKSON JR.
Studio, American Idol, Tonight Show, Grammy Nominated

MATT SCHOFIELD
Photo © Sam Hare

DEREK WELLS
Session Guitarist/ Shakira, Blake Shelton, Darius Rucker, Lady Antebellum

GREG MARTIN
The Kentucky HeadHunters
Photo © Brad Wheeler

GARY MORSE
Session Artist / Mo Pitney
Photo © J.A. Cheong

CHRIS CONDON
Nashville Session / Touring Guitarist

JEFF KING
Session Guitarist / Reba McEntire

PETE ANDERSON

DAVE BAKER
Session Guitarist / Kellie Pickler

PENNAL JOHNSON

GEORGE ALESSANDRO SIGNATURE

GA10-SC64

Tones of 1964 still ring true in this vintage voiced 10 inch speaker by amp guru George Alessandro. Very balanced with dynamic character, this ceramic 10 inch speaker offers tight, punchy tone with nice warmth, richness, and sparkling highs.

10” | 20 WATTS 8 Ω

SPECIFICATION

Nominal Basket Diameter	10”, 254 mm
Nominal Impedance*	8 Ω
Power Rating*	20 W
Resonance (Fs)	100 Hz
Usable Frequency Range	100 Hz – 5.5 kHz
Sensitivity*	98.2 dB
DC Resistance (Re)	7.58 Ω
Qts	1.28
Magnet Weight	15 oz.
Gap Height	0.25”, 6.4 mm
Voice Coil Diameter	1”, 25 mm

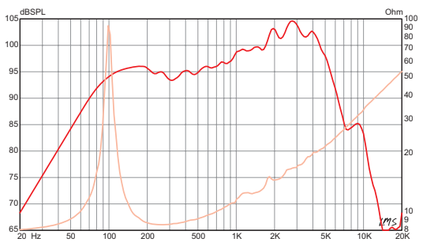
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.027 cu.ft., 0.77 liters
Overall Diameter	10.11”, 256.8 mm
Baffle Hole Diameter	9.13”, 231.9 mm
Depth	4.1”, 104.1 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	N/A
Mounting Holes Diameter	0.22”, 5.6 mm
Mounting Holes B.C.D.	9.6”, 243.8 mm
Net Weight	3.3 lbs , 1.5 kg
Shipping Weight	4.4 lbs , 2 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Paper former
Ferrite magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Solid composition felt dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

GEORGE ALESSANDRO SIGNATURE

GA-SC64

Tones of 1964 still ring true in this vintage voiced speaker by seasoned amp guru George Alessandro. Well-balanced from top to bottom, the GA-SC64’s warm, dynamic character lends itself to vintage amps as well as modern gain and distortion. The traditional build materials offer warmth, dynamics, low note articulation and proper distorted harmonic content layering.

12” | 40 WATTS 8 OR 16 Ω

SPECIFICATION

Nominal Basket Diameter	12”, 305 mm
Nominal Impedance*	8 or 16 Ω
Power Rating*	40 W
Resonance (Fs)	88 Hz
Usable Frequency Range	80 Hz – 5.3 kHz
Sensitivity*	100.5 dB
DC Resistance (Re)	7.63 Ω
Qts	0.58
Magnet Weight	38 oz.
Gap Height	0.31”, 8 mm
Voice Coil Diameter	1.75”, 44 mm

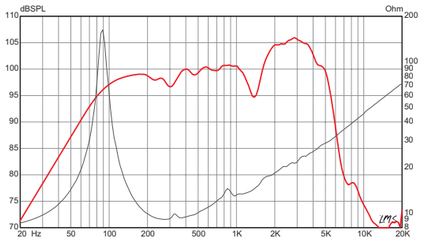
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.071 cu.ft., 2 liters
Overall Diameter	12.17”, 309.1 mm
Baffle Hole Diameter	11.13”, 282.7 mm
Depth	5.13”, 130.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	N/A
Mounting Holes Diameter	0.24”, 6.1 mm
Mounting Holes B.C.D.	11.75”, 298.5 mm
Net Weight	7.5 lbs , 3.4 kg
Shipping Weight	8.4 lbs , 3.81 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Paper former
Ferrite magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Solid composition felt dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

TRAVIS TOY SIGNATURE

DOUBLE-T 12

Rated at 300 watts, the Travis Toy Signature Double-T 12 pedal steel guitar speaker features a tight low end, a midrange bite that can cut through a mix, and detailed high end without being too bright. Travis worked closely with the engineers at Eminence to achieve these characteristics and even managed to pack them all into a 12" speaker that weighs just over 7 lbs.

12" | **300 WATTS** **8 Ω**

"This speaker directly addresses many of the issues I've had with existing speaker designs for my entire career. I feel that it's the perfect modern steel guitar speaker." – Travis Toy

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 Ω
Power Rating*	300 W
Resonance (Fs)	53 Hz
Usable Frequency Range	50 Hz – 3.8 kHz
Sensitivity*	100.2 dB
DC Resistance (Re)	5.6 Ω
Qts	0.3
Magnet Weight	11 oz.
Gap Height	0.36", 9.1 mm
Voice Coil Diameter	3", 76 mm

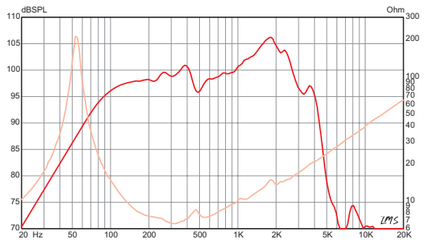
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.09 cu.ft., 2.54 liters
Overall Diameter	12.38", 314.5 mm
Baffle Hole Diameter	11.04", 280.4 mm
Depth	5.63", 143 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	11.62", 295.2 mm
Net Weight	7.1 lbs , 3.22 kg
Shipping Weight	8.7 lbs , 3.95 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Polyimide former
Neodymium magnet
Vented core
Die-cast aluminum basket
Paper cone
Cloth edge
Paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

ERIC JOHNSON SIGNATURE

EJ-1240

Eric Johnson, George Alessandro and Eminence have teamed up once again to reinvent vintage tone. Through a reformulated paper cone and optimized basket design, the 40 watt EJ-1240 offers vintage Alnico tone with tight, punchy lows, nice lower-mid growl, crisp upper-mids, and very controlled, articulate, and open highs.

12" | **40 WATTS** **8 OR 16 Ω**

"The new design concentrates on achieving a balanced EQ spectrum so that this speaker will sound good for clean tones, as well as semi-distorted and full for high gain lead tones." – Eric Johnson

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 or 16 Ω
Power Rating*	40 W
Resonance (Fs)	75 Hz
Usable Frequency Range	80 Hz – 5 kHz
Sensitivity*	100.7 dB
DC Resistance (Re)	7 Ω
Qts	0.53
Magnet Weight	35 oz.
Gap Height	0.31", 8 mm
Voice Coil Diameter	1.75", 44 mm

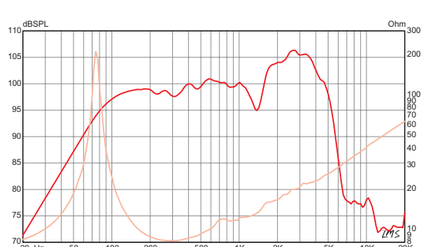
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.079 cu.ft., 2.24 liters
Overall Diameter	12.17", 309.1 mm
Baffle Hole Diameter	11.13", 282.7 mm
Depth	6.25", 158.8 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.24", 6.1 mm
Mounting Holes B.C.D.	11.75", 298.5 mm
Net Weight	8.4 lbs , 3.81 kg
Shipping Weight	10.2 lbs , 4.63 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Alnico magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PETE ANDERSON SIGNATURE

HEMPDOG 12

Multi-platinum, Grammy Award-winning producer/guitarist Pete Anderson wanted to combine the tonal characteristics from two of his favorite Eminence speakers into a single 12" model. The HempDog 12 borrows the warmth from the Cannabis Rex, and the neutral, clear tone from the Legend EM12.

12" | **150 WATTS** **8 Ω**

"The creation of the HempDog has exceeded my expectations. It has the hi-fidelity I require plus the warmth of hemp, an outstanding combination that covers all genres of music." – Pete Anderson

SPECIFICATION

Nominal Diameter	12", 305 mm
Nominal Impedance*	8 Ω
Power Rating*	150 W
Resonance (Fs)	69 Hz
Usable Frequency Range	80 Hz – 3.8 kHz
Sensitivity*	102.3 dB
DC Resistance (Re)	6.55 Ω
Qts	0.35
Magnet Weight	80 oz.
Gap Height	0.37", 9.5 mm
Voice Coil Diameter	2.5", 64 mm

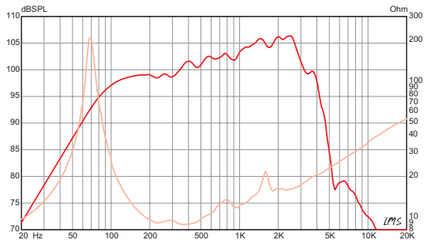
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.003 cu.ft., 0.09 liters
Overall Diameter	12.38", 314.5 mm
Baffle Hole Diameter	11.07", 281.2 mm
Depth	5.38", 136.7 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.26", 6.6 mm
Mounting Holes B.C.D.	11.57", 293.9 mm
Net Weight	16.3 lbs , 7.39 kg
Shipping Weight	18 lbs , 8.16 kg

MATERIALS OF CONSTRUCTION

Edge Wound Aluminum
Polyimide former
Vented core
Die-cast aluminum basket
Hemp cone
Paper cone edge
Paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

TOMO FUJITA SIGNATURE

TF-1250

A touch sensitive, bright and chimey vintage American tone with tight, punchy lows and nice, even mids. The 30 oz. ceramic magnet provides lower efficiency, which allows you to find the amp's sweet spot at lower volumes.

12" | **50 WATTS** **8 Ω**

"I feel lucky to have worked with Eminence since 2002, and my signature speaker is very special for me to achieve great quality vintage tone using modern technology." – Tomo Fujita

SPECIFICATION

Nominal Diameter	12", 305 mm
Nominal Impedance*	8 Ω
Power Rating*	50 W
Resonance (Fs)	95 Hz
Usable Frequency Range	80 Hz – 4.4 kHz
Sensitivity*	101.3 dB
DC Resistance (Re)	7.23 Ω
Qts	0.88
Magnet Weight	30 oz.
Gap Height	0.31", 8 mm
Voice Coil Diameter	1.5", 38 mm

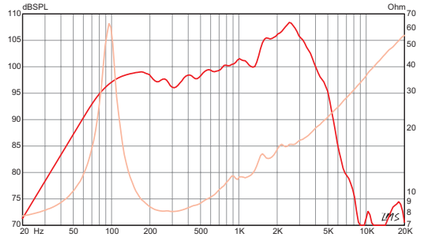
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.068 cu.ft., 1.93 liters
Overall Diameter	12.17", 309.1 mm
Baffle Hole Diameter	11.13", 282.7 mm
Depth	4.97", 126.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.24", 6.1 mm
Mounting Holes B.C.D.	11.75", 298.5 mm
Net Weight	6.6 lbs , 2.99 kg
Shipping Weight	8.6 lbs , 3.9 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Ferrite magnet
Non-vented core
Pressed steel basket
Full molded paper cone
Paper cone edge
Paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

LEGEND GUITAR SERIES

LEGEND 1058

The Eminence Legend 1058 guitar speaker takes classic tone a step further. Vintage American tone with punchy lows and warm, smooth, bluesy mids and highs. Fatter Legend 1028K tone with more depth.

10” | 75 WATTS 8 OR 16 Ω

SPECIFICATION

Nominal Basket Diameter	10”, 254 mm
Nominal Impedance*	8 or 16 Ω
Power Rating*	75 W
Resonance (Fs)	97 Hz
Usable Frequency Range	100 Hz – 5 kHz
Sensitivity*	98.7 dB
DC Resistance (Re)	7.49 Ω
Qts	1.13
Magnet Weight	16 oz.
Gap Height	0.25”, 6.4 mm
Voice Coil Diameter	1.5”, 38 mm

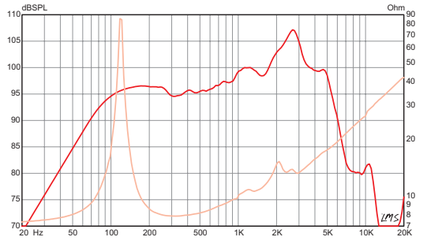
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.033 cu.ft., 0.93 liters
Overall Diameter	10.11”, 256.8 mm
Baffle Hole Diameter	9.13”, 231.9 mm
Depth	4.1”, 104.1 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.23”, 5.8 mm
Mounting Holes B.C.D.	9.6”, 243.8 mm
Net Weight	4.4 lbs , 2 kg
Shipping Weight	5.4 lbs , 2.45 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Polyimide former
Ferrite magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Solid composition felt dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

LEGEND GUITAR SERIES

LEGEND 1028K

The Eminence Legend 1028K guitar speaker is a classic stage fixture. Vintage American tone with moderate, but tight, percussive lows and extended highs. Hard-working under the bright lights.

10” | 35 WATTS 8 Ω

SPECIFICATION

Nominal Basket Diameter	10”, 254 mm
Nominal Impedance*	8 Ω
Power Rating*	35 W
Resonance (Fs)	95 Hz
Usable Frequency Range	100 Hz – 5 kHz
Sensitivity*	97.4 dB
DC Resistance (Re)	5.8 Ω
Qts	1.47
Magnet Weight	6 oz.
Gap Height	0.25”, 6.4 mm
Voice Coil Diameter	1”, 25 mm

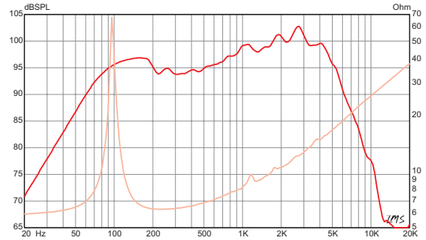
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.027 cu.ft., 0.77 liters
Overall Diameter	10.11”, 256.8 mm
Baffle Hole Diameter	9.13”, 231.9 mm
Depth	4.8”, 121.9 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	N/A
Mounting Holes Diameter	0.22”, 5.6 mm
Mounting Holes B.C.D.	9.6”, 243.8 mm
Net Weight	2.9 lbs , 1.32 kg
Shipping Weight	4 lbs , 1.81 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Alnico magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Solid composition felt dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

LEGEND GUITAR SERIES

LEGEND EM12

A high power 12 inch guitar speaker featuring ultra-clean tone with big, round, punchy lows and warm, smooth mids and highs. A more neutral tone so you can hear more of your amp and guitar.

12” | **200 WATTS** **8 Ω**

SPECIFICATION

Nominal Basket Diameter	12”, 305 mm
Nominal Impedance*	8 Ω
Power Rating*	200 W
Resonance (Fs)	49 Hz
Usable Frequency Range	60 Hz – 4.9 kHz
Sensitivity*	101.1 dB
DC Resistance (Re)	6.6 Ω
Qts	0.28
Magnet Weight	80 oz.
Gap Height	0.37”, 9.5 mm
Voice Coil Diameter	2.5”, 64 mm

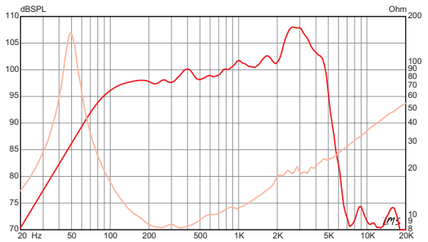
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.09 cu.ft., 2.55 liters
Overall Diameter	12.38”, 314.5 mm
Baffle Hole Diameter	11.07”, 281.2 mm
Depth	5.38”, 136.5 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.26”, 6.6 mm
Mounting Holes B.C.D.	11.57”, 293.9 mm
Net Weight	16.3 lbs , 7.39 kg
Shipping Weight	18 lbs , 8.16 kg

MATERIALS OF CONSTRUCTION

Edge wound aluminum voice coil	
Polyimide former	
Ferrite magnet	
Vented core	
Die cast aluminum basket	
Paper cone	
Cloth edge	
Paper dust cap	

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

LEGEND GUITAR SERIES

LEGEND 1218

The Eminence Legend 1218 guitar speaker brings tone to the masses. Very balanced, fat, round, punchy lows and warm, smooth mids and lows, very clean and articulate.

12” | **150 WATTS** **8 Ω**

SPECIFICATION

Nominal Basket Diameter	12”, 305 mm
Nominal Impedance*	8 Ω
Power Rating*	150 W
Resonance (Fs)	100 Hz
Usable Frequency Range	80 Hz – 4.2 kHz
Sensitivity*	98.7 dB
DC Resistance (Re)	6.95 Ω
Qts	0.89
Magnet Weight	38 oz.
Gap Height	0.31”, 7.9 mm
Voice Coil Diameter	2”, 51 mm

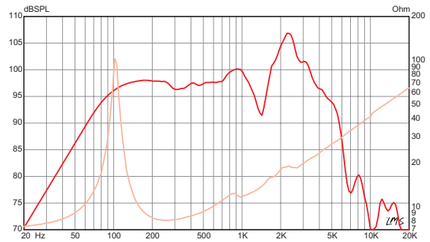
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.071 cu.ft., 2 liters
Overall Diameter	12.03”, 305.6 mm
Baffle Hole Diameter	11.07”, 281.2 mm
Depth	5.1”, 129.5 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25”, 6.4 mm
Mounting Holes B.C.D.	11.59”, 294.4 mm
Net Weight	8.4 lbs , 3.81 kg
Shipping Weight	10.6 lbs , 4.81 kg

MATERIALS OF CONSTRUCTION

Copper voice coil	
Polyimide former	
Ferrite magnet	
Non-vented core	
Pressed steel basket	
Paper cone	
Paper cone edge	
Zurette dust cap	

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

LEGEND GUITAR SERIES

LEGEND V128

The Eminence Legend V128 guitar speaker features balanced, more mellow British sound with warm, smooth mids and highs and tight lows.

12” | 120 WATTS 8 OR 16 Ω

SPECIFICATION

Nominal Basket Diameter	12”, 305 mm
Nominal Impedance*	8 or 16 Ω
Power Rating*	120 W
Resonance (Fs)	89 Hz
Usable Frequency Range	80 Hz – 5 kHz
Sensitivity*	100.9 dB
DC Resistance (Re)	6.37 Ω
Qts	0.77
Magnet Weight	38 oz.
Gap Height	0.31”, 7.9 mm
Voice Coil Diameter	1.75”, 44 mm

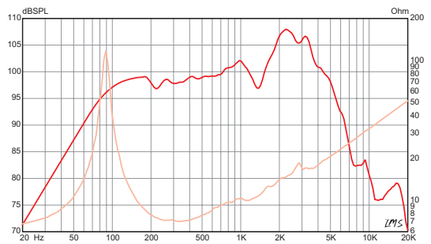
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.071 cu.ft., 2 liters
Overall Diameter	12.03”, 305.6 mm
Baffle Hole Diameter	11.07”, 281.2 mm
Depth	5.1”, 129.5 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25”, 6.4 mm
Mounting Holes B.C.D.	11.59”, 294.4 mm
Net Weight	8.1 lbs , 3.67 kg
Shipping Weight	10.1 lbs , 4.58 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Polyimide former
Ferrite magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Solid composition felt dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

LEGEND GUITAR SERIES

LEGEND 1258

Vintage American tone with moderate but tight lows, warm, smooth upper-mid emphasis and extended highs. American growl, but with sparkle, definition and an edgy top-end.

12” | 75 WATTS 8 Ω

SPECIFICATION

Nominal Basket Diameter	12”, 305 mm
Nominal Impedance*	8 Ω
Power Rating*	75 W
Resonance (Fs)	94 Hz
Usable Frequency Range	80 Hz – 4 kHz
Sensitivity*	100.1 dB
DC Resistance (Re)	7.44 Ω
Qts	0.99
Magnet Weight	34 oz.
Gap Height	0.31”, 7.9 mm
Voice Coil Diameter	1.5”, 38 mm

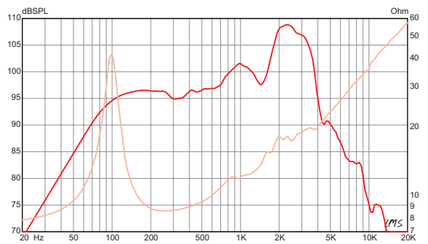
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.069 cu.ft., 1.96 liters
Overall Diameter	12.03”, 305.6 mm
Baffle Hole Diameter	11.07”, 281.2 mm
Depth	4.9”, 124.5 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25”, 6.4 mm
Mounting Holes B.C.D.	11.59”, 294.4 mm
Net Weight	7.8 lbs , 3.54 kg
Shipping Weight	9.9 lbs , 4.49 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Polyimide former
Ferrite magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

LEGEND GUITAR SERIES

LEGEND 1275

A British voiced speaker reminiscent of classic OEM tones from the past with tight, punchy lows, warm mids, and crisp, articulate, open highs.

12” | 75 WATTS 8 Ω

SPECIFICATION

Nominal Basket Diameter	12”, 305 mm
Nominal Impedance*	8 Ω
Power Rating*	75 W
Resonance (Fs)	111 Hz
Usable Frequency Range	80 Hz – 5.1 kHz
Sensitivity*	101.1 dB
DC Resistance (Re)	7.36 Ω
Qts	1.02
Magnet Weight	34 oz.
Gap Height	0.31”, 8 mm
Voice Coil Diameter	1.5”, 38 mm

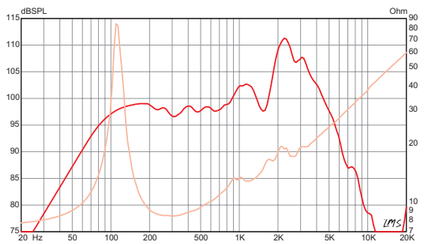
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.068 cu.ft., 1.93 liters
Overall Diameter	12.26”, 311.4 mm
Baffle Hole Diameter	11.06”, 280.9 mm
Depth	4.44”, 112.8 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25”, 6.4 mm
Mounting Holes B.C.D.	11.71”, 297.4 mm
Net Weight	7 lbs , 3.18 kg
Shipping Weight	9 lbs , 4.08 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Polyimide former
Ferrite Magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

LEGEND GUITAR SERIES

LEGEND GB128

The Legend GB128 guitar speaker offers cleaner vintage British voiced tone with a round, punchy low end, warm, throaty mids and very open and clear highs.

12” | 50 WATTS 8 Ω

SPECIFICATION

Nominal Basket Diameter	12”, 305 mm
Nominal Impedance*	8 Ω
Power Rating*	50 W
Resonance (Fs)	86 Hz
Usable Frequency Range	80 Hz – 5.1 kHz
Sensitivity*	101.3 dB
DC Resistance (Re)	6.37 Ω
Qts	0.65
Magnet Weight	38 oz.
Gap Height	0.31”, 7.9 mm
Voice Coil Diameter	1.75”, 44 mm

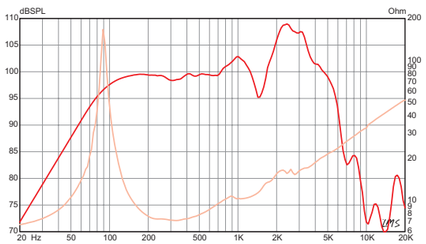
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.071 cu.ft., 2 liters
Overall Diameter	12.03”, 305.6 mm
Baffle Hole Diameter	11.07”, 281.2 mm
Depth	5.1”, 129.5 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25”, 6.4 mm
Mounting Holes B.C.D.	11.59”, 294.4 mm
Net Weight	8.1 lbs , 3.67 kg
Shipping Weight	10.1 lbs , 4.58 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Paper former
Ferrite magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

LEGEND GUITAR SERIES

LEGEND 1518

A higher power 15” guitar speaker with well balanced vintage guitar tone. Big low-end, with a mellow, but singing top end and medium break-up.

15” | 150 WATTS 8 Ω

SPECIFICATION

Nominal Basket Diameter	15”, 381 mm
Nominal Impedance*	8 Ω
Power Rating*	150 W
Resonance (Fs)	82 Hz
Usable Frequency Range	60 Hz – 4 kHz
Sensitivity*	103.4 dB
DC Resistance (Re)	7.16 Ω
Qts	0.93
Magnet Weight	59 oz.
Gap Height	0.31”, 7.9 mm
Voice Coil Diameter	2”, 51 mm

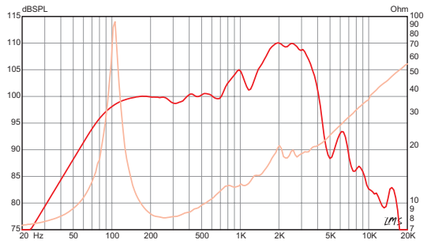
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.128 cu.ft., 3.62 liters
Overall Diameter	15.15”, 384.8 mm
Baffle Hole Diameter	13.87”, 352.3 mm
Depth	6.1”, 154.9 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	N/A
Mounting Holes Diameter	0.25”, 6.4 mm
Mounting Holes B.C.D.	14.56”, 369.8 mm
Net Weight	12.1 lbs , 5.49 kg
Shipping Weight	14.1 lbs , 6.4 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Polyimide former
Ferrite magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PATRIOT GUITAR SERIES

620H

The little brother to the 820H, the 620H is a four ohm hemp cone speaker with warm, full, and clean tone that will make a small, thin amp sound bigger and fatter. Cleaner, warmer, fatter, and better definition than any stock 6.5” speaker.

6” | 20 WATTS 4 Ω

SPECIFICATION

Nominal Basket Diameter	6.5”, 165 mm
Nominal Impedance*	4 Ω
Power Rating*	20 W
Resonance (Fs)	114 Hz
Usable Frequency Range	100 Hz – 5.3 kHz
Sensitivity*	94.6 dB
DC Resistance (Re)	3.94 Ω
Qts	0.49
Magnet Weight	15 oz.
Gap Height	0.25”, 6.4 mm
Voice Coil Diameter	1”, 25 mm

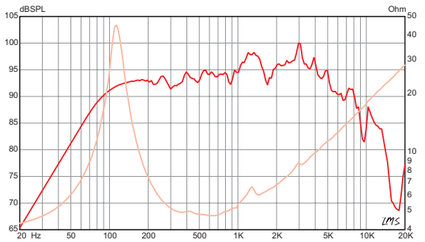
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.011 cu.ft., 0.3 liters
Overall Diameter	6.59”, 167.4 mm
Baffle Hole Diameter	5.65”, 143.5 mm
Depth	2.8”, 71.1 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.23”, 5.8 mm
Mounting Holes B.C.D.	6.06”, 153.9 mm
Net Weight	2.9 lbs , 1.32 kg
Shipping Weight	3.6 lbs , 1.63 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Paper former
Ferrite magnet
Non-vented core
Pressed steel basket
Paper cone
Full molded paper cone
Paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PATRIOT GUITAR SERIES

820H

A four ohm hemp cone speaker with rich, warm, full bodied tone with fat, punchy lows, smooth, but defined highs, and a nice break up. Prominent mids, but with a warm, smooth texture.

8” | 20 WATTS 4 Ω

SPECIFICATION

Nominal Basket Diameter	8”, 203 mm
Nominal Impedance*	4 Ω
Power Rating*	20 W
Resonance (Fs)	144 Hz
Usable Frequency Range	80 Hz – 4.6 kHz
Sensitivity*	96.1 dB
DC Resistance (Re)	3.64 Ω
Qts	0.88
Magnet Weight	15 oz.
Gap Height	0.25”, 6.4 mm
Voice Coil Diameter	1”, 25 mm

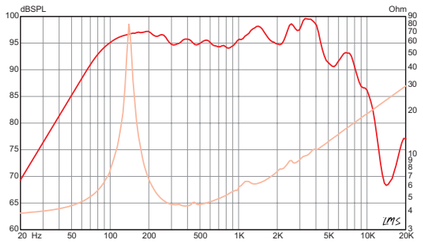
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.018 cu.ft., 0.51 liters
Overall Diameter	8.24”, 209.3 mm
Baffle Hole Diameter	7.13”, 181.1 mm
Depth	3.06”, 77.7 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	N/A
Mounting Holes Diameter	0.22”, 5.6 mm
Mounting Holes B.C.D.	7.75”, 196.9 mm
Net Weight	3.1 lbs , 1.41 kg
Shipping Weight	3.9 lbs , 1.77 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Polyimide former
Ferrite magnet
None-vented core
Pressed steel basket
Paper cone
Full paper cone
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PATRIOT GUITAR SERIES

THE COPPERHEAD™

The Eminence Copperhead guitar speaker combines the best of two tones, balancing country honk with a touch of classic blues. Extremely balanced vintage tone for smooth, driven leads and clean rhythm.

10” | 75 WATTS 8 Ω

SPECIFICATION

Nominal Basket Diameter	10”, 254 mm
Nominal Impedance*	8 Ω
Power Rating*	75 W
Resonance (Fs)	105 Hz
Usable Frequency Range	80 Hz – 4.5 kHz
Sensitivity*	98.8 dB
DC Resistance (Re)	7.59 Ω
Qts	0.98
Magnet Weight	20 oz.
Gap Height	0.31”, 7.9 mm
Voice Coil Diameter	1.5”, 38 mm

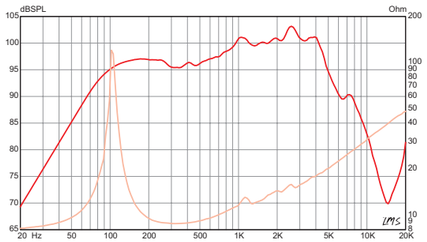
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.034 cu.ft., 0.95 liters
Overall Diameter	10.11”, 256.8 mm
Baffle Hole Diameter	9.13”, 231.9 mm
Depth	4.2”, 106.7 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.23”, 5.8 mm
Mounting Holes B.C.D.	9.6”, 243.8 mm
Net Weight	4.5 lbs , 2.04 kg
Shipping Weight	6.4 lbs , 2.9 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Polyimide former
Ferrite magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PATRIOT GUITAR SERIES

RAGIN CAJUN™

The Eminence Ragin Cajun guitar speaker puts you in control to be heard loud and clear. Very loud, touch sensitive and responsive A low end similar in definition to a 12", crisp mids, and nice bell-like highs.

10" | 75 WATTS 8 Ω

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 Ω
Power Rating*	75 W
Resonance (Fs)	84 Hz
Usable Frequency Range	80 Hz – 5 kHz
Sensitivity*	100.5 dB
DC Resistance (Re)	7.01 Ω
Qts	0.51
Magnet Weight	30 oz.
Gap Height	0.31", 7.9 mm
Voice Coil Diameter	1.5", 38 mm

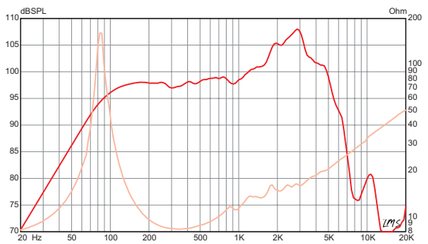
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.039 cu.ft., 1.1 liters
Overall Diameter	10.11", 256.8 mm
Baffle Hole Diameter	9.13", 231.9 mm
Depth	4.3", 109.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.23", 5.8 mm
Mounting Holes B.C.D.	9.6", 243.8 mm
Net Weight	6.4 lbs , 2.9 kg
Shipping Weight	8.2 lbs , 3.72 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Polyimide former
Ferrite magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PATRIOT GUITAR SERIES

LIL' BUDDY™

The Eminence Lil' Buddy 10" hemp cone guitar speaker offers clean and full tone with slow break-up, and is crunchy when driven. A much warmer and smoother 10" tone.

10" | 50 WATTS 8 Ω

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 Ω
Power Rating*	50 W
Resonance (Fs)	149 Hz
Usable Frequency Range	80 Hz – 5 kHz
Sensitivity*	98.8 dB
DC Resistance (Re)	6.31 Ω
Qts	0.84
Magnet Weight	30 oz.
Gap Height	0.31", 7.9 mm
Voice Coil Diameter	1.75", 44 mm

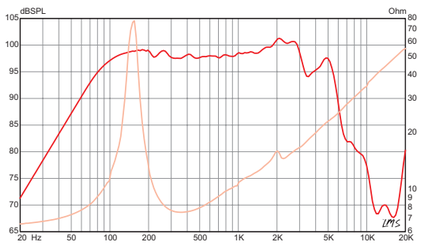
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.039 cu.ft., 1.1 liters
Overall Diameter	10.11", 256.8 mm
Baffle Hole Diameter	9.13", 231.9 mm
Depth	4.3", 109.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.23", 5.8 mm
Mounting Holes B.C.D.	9.6", 243.8 mm
Net Weight	6.3 lbs , 2.86 kg
Shipping Weight	7.4 lbs , 3.36 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Paper former
Ferrite magnet
Non-vented core
Pressed steel basket
Hemp cone ™
Paper cone edge
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PATRIOT GUITAR SERIES

EPS-12C

A fast and dynamic, ultra-lightweight pedal guitar speaker that has been field tested in Nashville, Arizona, Texas, and L.A. It has a full low end, neutral mids, and is bright and clear.

12” | 225 WATTS 4 Ω

SPECIFICATION

Nominal Basket Diameter	12”, 305 mm
Nominal Impedance*	4 Ω
Power Rating*	225 W
Resonance (Fs)	49 Hz
Usable Frequency Range	65 Hz – 4.9 kHz
Sensitivity*	100.1 dB
DC Resistance (Re)	3.55 Ω
Qts	0.24
Magnet Weight	11 oz.
Gap Height	0.36”, 9.1 mm
Voice Coil Diameter	3”, 76 mm

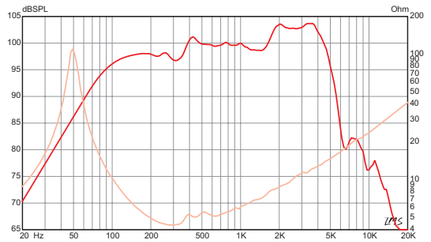
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.054 cu.ft., 1.53 liters
Overall Diameter	12.38”, 314.5 mm
Baffle Hole Diameter	11.06”, 280.9 mm
Depth	5.63”, 143 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28”, 7.1 mm
Mounting Holes B.C.D.	11.62”, 295.2 mm
Net Weight	7.1 lbs , 3.22 kg
Shipping Weight	8.7 lbs , 3.95 kg

MATERIALS OF CONSTRUCTION

Edge wound Aluminum Voice Coil
Kapton former
Neodymium magnet
Vented core
Die-cast aluminum basket/ heat sink
Paper cone
Cloth cone edge
Treated paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PATRIOT GUITAR SERIES

SWAMP THANG™

Designed with heavier players in mind, the Swamp Thang is very touch sensitive and provides a thick and chunky tone with loads of sustain. The awesome bottom end will hold up to even the most demanding drop-tune or 7 string players.

12” | 150 WATTS 8 OR 16 Ω

SPECIFICATION

Nominal Basket Diameter	12”, 305 mm
Nominal Impedance*	8 or 16 Ω
Power Rating*	150 W
Resonance (Fs)	97 Hz
Usable Frequency Range	70 Hz – 4 kHz
Sensitivity*	102 dB
DC Resistance (Re)	6.92 Ω
Qts	0.53
Magnet Weight	59 oz.
Gap Height	0.31”, 7.9 mm
Voice Coil Diameter	2”, 51 mm

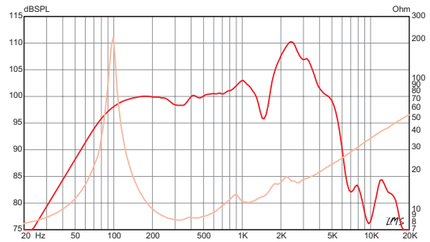
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.079 cu.ft., 2.25 liters
Overall Diameter	12.03”, 305.6 mm
Baffle Hole Diameter	11.07”, 281.2 mm
Depth	5.2”, 132.1 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25”, 6.4 mm
Mounting Holes B.C.D.	11.59”, 294.4 mm
Net Weight	11.1 lbs , 5.03 kg
Shipping Weight	12.8 lbs , 5.81 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Polyimide former
Ferrite magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PATRIOT GUITAR SERIES

TEXAS HEAT™

The Eminence Texas Heat is the All-American guitar speaker that's packin' heat, Texas style. It delivers a nice warm, fat tone with top end bite and clarity to cut through a mix while maintaining a rich, bluesy tone. Very touch-sensitive with a hint of British flavor.

12” | 150 WATTS 8, 4 OR 16 Ω

SPECIFICATION

Nominal Basket Diameter	12”, 305 mm
Nominal Impedance*	8, 4 or 16 Ω
Power Rating*	150 W
Resonance (Fs)	79 Hz
Usable Frequency Range	70 Hz – 4.7 kHz
Sensitivity*	99.4 dB
DC Resistance (Re)	7.3 Ω
Qts	0.65
Magnet Weight	38 oz.
Gap Height	0.31”, 7.9 mm
Voice Coil Diameter	2”, 51 mm

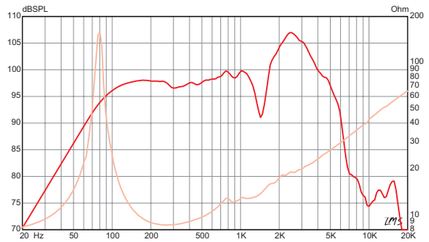
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.071 cu.ft., 2 liters
Overall Diameter	12.03”, 305.6 mm
Baffle Hole Diameter	11.07”, 281.2 mm
Depth	5.1”, 129.5 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25”, 6.4 mm
Mounting Holes B.C.D.	11.59”, 294.4 mm
Net Weight	8.3 lbs , 3.76 kg
Shipping Weight	10 lbs , 4.54 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Polyimide former
Ferrite magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PATRIOT GUITAR SERIES

LIL' TEXAS™

The lightweight Eminence Lil' Texas guitar speaker gives an All-American tone much like the ceramic Texas Heat. A very well-balanced tone with tight lows, crisp mids, and top end bite and clarity.

12” | 125 WATTS 8 Ω

SPECIFICATION

Nominal Basket Diameter	12”, 305 mm
Nominal Impedance*	8 Ω
Power Rating*	125 W
Resonance (Fs)	90 Hz
Usable Frequency Range	80 Hz – 5 kHz
Sensitivity*	101.2 dB
DC Resistance (Re)	7.2 Ω
Qts	0.65
Magnet Weight	4 oz.
Gap Height	0.28”, 7.1 mm
Voice Coil Diameter	2”, 51 mm

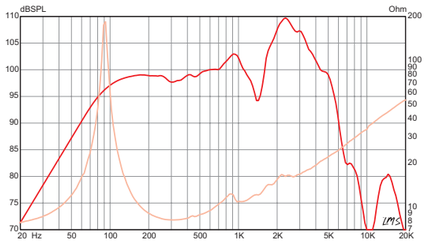
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.059 cu.ft., 1.67 liters
Overall Diameter	12.03”, 305.6 mm
Baffle Hole Diameter	11.07”, 281.2 mm
Depth	5.07”, 128.8 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25”, 6.4 mm
Mounting Holes B.C.D.	11.59”, 294.4 mm
Net Weight	4.1 lbs , 1.86 kg
Shipping Weight	5.8 lbs , 2.63 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Polyimide former
Neodymium magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PATRIOT GUITAR SERIES

RED WHITE AND BLUES™

The Eminence Red White and Blues guitar speaker is the natural upgrade for the classic American amp. A darker tone that's great for taming a bright amp. Tight low-end definition with warm, smooth mids and highs.

12" | 120 WATTS 8 Ω

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 Ω
Power Rating*	120 W
Resonance (Fs)	110 Hz
Usable Frequency Range	80 Hz – 4.3 kHz
Sensitivity*	101 dB
DC Resistance (Re)	6.42 Ω
Qts	0.79
Magnet Weight	38 oz.
Gap Height	0.31", 7.9 mm
Voice Coil Diameter	1.75", 44 mm

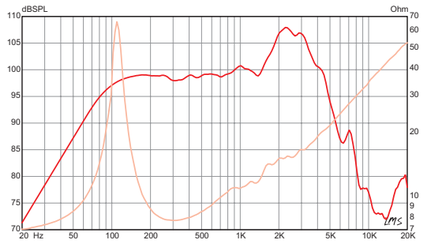
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.071 cu.ft., 2 liters
Overall Diameter	12.03", 305.6 mm
Baffle Hole Diameter	11.07", 281.2 mm
Depth	5.1", 129.5 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25", 6.4 mm
Mounting Holes B.C.D.	11.59", 294.4 mm
Net Weight	8.2 lbs , 3.72 kg
Shipping Weight	10.1 lbs , 4.58 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Polyimide former
Ferrite magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

FDM™ TECHNOLOGY

MAVERICK™

Don't sacrifice tone for lower stage volume! The Eminence Maverick™ guitar speaker with patent-pending FDM™ technology puts tonal control at your fingertips. Simply adjust the knob on the back of the speaker to attenuate volume while creating an overdriven, saturated tube tone. Perfect for small venues, studios and practice situations. Very balanced, versatile American tone with fat lows, warm mids, and articulate highs.

12" | 75 WATTS 8 Ω

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 Ω
Power Rating*	75 W
Resonance (Fs)	82 Hz
Usable Frequency Range	80 Hz – 5 kHz
Sensitivity*	91.5 – 100 dB
DC Resistance (Re)	5.99 Ω
Qts	1.09
Magnet Weight	38 oz.
Gap Height	0.31", 7.9 mm
Voice Coil Diameter	1.75", 44 mm

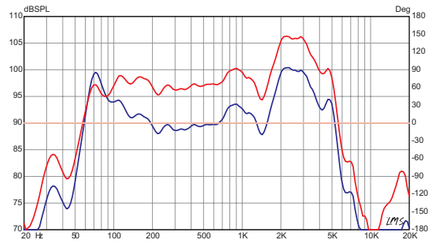
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.078 cu.ft., 2.2 liters
Overall Diameter	12.03", 305.6 mm
Baffle Hole Diameter	11.07", 281.2 mm
Depth	6.56", 166.7 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25", 6.4 mm
Mounting Holes B.C.D.	11.59", 294.4 mm
Net Weight	7.8 lbs , 3.54 kg
Shipping Weight	9.7 lbs , 4.4 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Polyimide former
Ferrite magnet
FDM Technology
Pressed steel basket
Paper cone
Paper cone edge
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PATRIOT GUITAR SERIES

CANNABIS REX™

The hemp cone Cannabis Rex guitar speaker offers clean and full tone with fat lows and warm, smooth mids and highs. A round and open tone makes it a great upgrade for American voiced amps.

12” | 50 WATTS 8 OR 16 Ω

SPECIFICATION

Nominal Basket Diameter	12”, 305 mm
Nominal Impedance*	8 or 16 Ω
Power Rating*	50 W
Resonance (Fs)	96 Hz
Usable Frequency Range	80 Hz – 4.5 kHz
Sensitivity*	101.8 dB
DC Resistance (Re)	6.56 Ω
Qts	0.64
Magnet Weight	38 oz.
Gap Height	0.31”, 7.9 mm
Voice Coil Diameter	1.75”, 44 mm

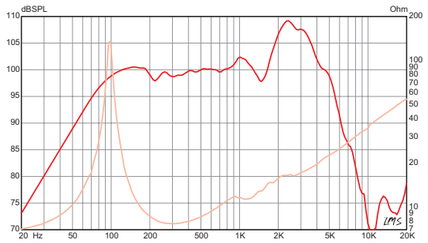
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.071 cu.ft., 2 liters
Overall Diameter	12.03”, 305.6 mm
Baffle Hole Diameter	11.07”, 281.2 mm
Depth	5.1”, 129.5 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25”, 6.4 mm
Mounting Holes B.C.D.	11.59”, 294.4 mm
Net Weight	8.2 lbs , 3.72 kg
Shipping Weight	9.8 lbs , 4.45 kg

MATERIALS OF CONSTRUCTION

Copper voice coil	
Paper former	
Ferrite magnet	
Non-vented core	
Pressed steel basket	
Hemp cone [a]	
Paper cone edge	
Zurette dust cap	

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

PATRIOT GUITAR SERIES

EPS-15C

The lightweight neodymium Eminence EPS-15C guuitar speaker is designed for pedal steel, lap steel, and related guitars. The aluminum dust cap lends chimey, extended highs that have come to define the classic pedal steel sound - all under 8 lbs.

15” | 300 WATTS 4 Ω

SPECIFICATION

Nominal Basket Diameter	15”, 381 mm
Nominal Impedance*	4 Ω
Power Rating*	300 W
Resonance (Fs)	42 Hz
Usable Frequency Range	42 Hz – 2.9 kHz
Sensitivity*	100.2 dB
DC Resistance (Re)	3.57 Ω
Qts	0.31
Magnet Weight	11 oz.
Gap Height	0.36”, 9.3 mm
Voice Coil Diameter	3”, 76 mm

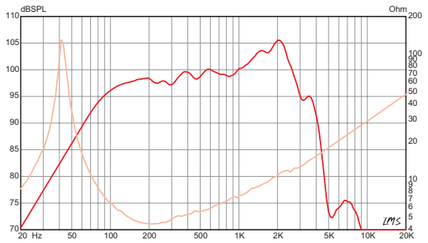
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.09 cu.ft., 2.54 liters
Overall Diameter	15.32”, 389.1 mm
Baffle Hole Diameter	14”, 355.6 mm
Depth	6.81”, 173 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28”, 7.1 mm
Mounting Holes B.C.D.	14.56”, 369.8 mm
Net Weight	7.9 lbs , 3.58 kg
Shipping Weight	10.1 lbs , 4.58 kg

MATERIALS OF CONSTRUCTION

Copper voice coil	
Polyimide former	
Neodymium magnet	
Vented core	
Die-cast aluminum basket	
Paper cone	
Cloth cone edge	
Aluminum dust cap	

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

REDCOAT GUITAR SERIES

RAMROD™

The Eminence Ramrod is a very loud and gutsy 10" British-voiced guitar speaker with meaty tone. A very balanced tone with full lows, warm, throaty mids, clear highs and abundant harmonic detail.

10" | 75 WATTS 8 Ω

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 Ω
Power Rating*	75 W
Resonance (Fs)	101 Hz
Usable Frequency Range	80 Hz – 4 kHz
Sensitivity*	100.2 dB
DC Resistance (Re)	7.3 Ω
Qts	0.64
Magnet Weight	30 oz.
Gap Height	0.31", 7.9 mm
Voice Coil Diameter	1.5", 38 mm

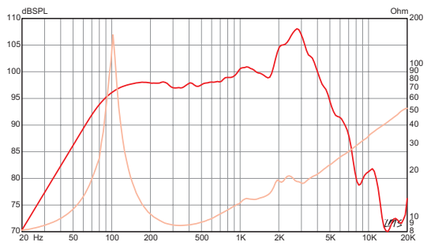
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.039 cu.ft., 1.1 liters
Overall Diameter	10.11", 256.8 mm
Baffle Hole Diameter	9.13", 231.9 mm
Depth	4.3", 109.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.23", 5.8 mm
Mounting Holes B.C.D.	9.6", 243.8 mm
Net Weight	6.4 lbs , 2.9 kg
Shipping Weight	8.3 lbs , 3.76 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Polyimide former
Ferrite magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

REDCOAT GUITAR SERIES

RF10C

A ceramic version of our popular Red Fang 12 alnico. A round and beefy British tone with abundant harmonic detail, full lows, and nice grit and chime.

10" | 50 WATTS 8 Ω

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 Ω
Power Rating*	50 W
Resonance (Fs)	105 Hz
Usable Frequency Range	80 Hz – 4.2 kHz
Sensitivity*	100.4 dB
DC Resistance (Re)	5.98 Ω
Qts	0.53
Magnet Weight	38 oz.
Gap Height	0.31", 8 mm
Voice Coil Diameter	1.75", 44 mm

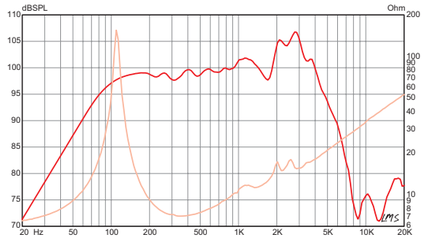
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.039 cu.ft., 1.1 liters
Overall Diameter	10.11", 256.8 mm
Baffle Hole Diameter	9.13", 231.9 mm
Depth	4", 101.6 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.23", 5.8 mm
Mounting Holes B.C.D.	9.6", 243.8 mm
Net Weight	7.3 lbs , 3.31 kg
Shipping Weight	8.4 lbs , 3.81 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Nomex former
Ferrite magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

REDCOAT GUITAR SERIES

THE TONKER™

The Eminence Tonker guitar speaker features very fat, punchy, clean and warm tone. A nice, smooth midrange honk and clear, open highs. Carries the day, from English Rock to Tele Twang.

12” | 150 WATTS 8 OR 16 Ω

SPECIFICATION

Nominal Basket Diameter	12”, 305 mm
Nominal Impedance*	8 or 16 Ω
Power Rating*	150 W
Resonance (Fs)	89 Hz
Usable Frequency Range	70 Hz – 5 kHz
Sensitivity*	101.5 dB
DC Resistance (Re)	7.36 Ω
Qts	0.47
Magnet Weight	59 oz.
Gap Height	0.31”, 7.9 mm
Voice Coil Diameter	2”, 51 mm

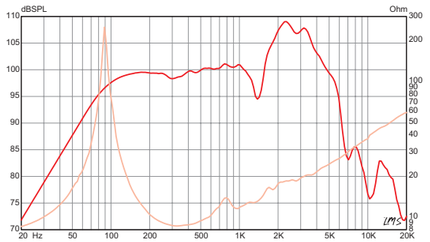
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.079 cu.ft., 2.25 liters
Overall Diameter	12.03”, 305.6 mm
Baffle Hole Diameter	11.07”, 281.2 mm
Depth	5.2”, 132.1 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25”, 6.4 mm
Mounting Holes B.C.D.	11.59”, 294.4 mm
Net Weight	11.1 lbs , 5.03 kg
Shipping Weight	13.2 lbs , 5.99 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Polyimide former
Ferrite magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

REDCOAT GUITAR SERIES

TONKERLITE™

A lightweight 12” guitar speaker with nice round, punchy, balanced tone like the Tonker, but a touch brighter on the top end and less lower-mid definition – all at 4 lbs.!

12” | 125 WATTS 8 Ω

SPECIFICATION

Nominal Basket Diameter	12”, 305 mm
Nominal Impedance*	8 Ω
Power Rating*	125 W
Resonance (Fs)	109 Hz
Usable Frequency Range	80 Hz – 5 kHz
Sensitivity*	101.1 dB
DC Resistance (Re)	7.2 Ω
Qts	0.8
Magnet Weight	4 oz.
Gap Height	0.28”, 7.1 mm
Voice Coil Diameter	2”, 51 mm

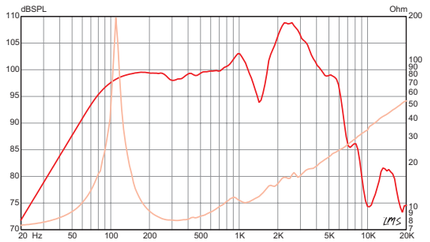
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.059 cu.ft., 1.67 liters
Overall Diameter	12.03”, 305.6 mm
Baffle Hole Diameter	11.07”, 281.2 mm
Depth	5.1”, 129.5 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25”, 6.4 mm
Mounting Holes B.C.D.	11.59”, 294.4 mm
Net Weight	4.1 lbs , 1.86 kg
Shipping Weight	5.8 lbs , 2.63 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Neodymium magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

REDCOAT GUITAR SERIES

MAN O WAR™

The Eminence Man O War guitar speaker is the work horse of tone. A proven and revered sound, very loud and responsive/articulate in every register. Chunky, solid low end and crisp mids and highs.

12” | 120 WATTS 8 OR 16 Ω

SPECIFICATION

Nominal Basket Diameter	12”, 305 mm
Nominal Impedance*	8 or 16 Ω
Power Rating*	120 W
Resonance (Fs)	91 Hz
Usable Frequency Range	80 Hz – 5 kHz
Sensitivity*	101.6 dB
DC Resistance (Re)	6.2 Ω
Qts	0.68
Magnet Weight	38 oz.
Gap Height	0.31”, 7.9 mm
Voice Coil Diameter	1.75”, 44 mm

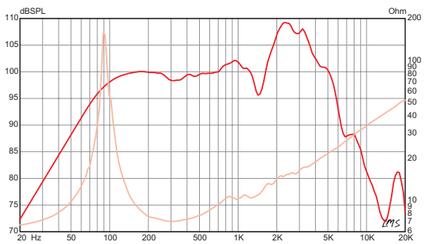
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.071 cu.ft., 2 liters
Overall Diameter	12.03”, 305.6 mm
Baffle Hole Diameter	11.07”, 281.2 mm
Depth	5.2”, 132.1 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25”, 6.4 mm
Mounting Holes B.C.D.	11.59”, 294.4 mm
Net Weight	8.1 lbs , 3.67 kg
Shipping Weight	9.9 lbs , 4.49 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Polyimide former
Ferrite magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

REDCOAT GUITAR SERIES

CV-75

Over 10 years in development, we’ve captured the epitome of British tone. Complete tonal balance – grunt and punch in the lows, warm/tailored mids, and nice, clear, open/airy highs.

12” | 75 WATTS 8 OR 16 Ω

SPECIFICATION

Nominal Basket Diameter	12”, 305 mm
Nominal Impedance*	8 or 16 Ω
Power Rating*	75 W
Resonance (Fs)	79 Hz
Usable Frequency Range	80 Hz – 5.5 kHz
Sensitivity*	102.2 dB
DC Resistance (Re)	6.89 Ω
Qts	0.42
Magnet Weight	56 oz.
Gap Height	0.31”, 8 mm
Voice Coil Diameter	1.75”, 44 mm

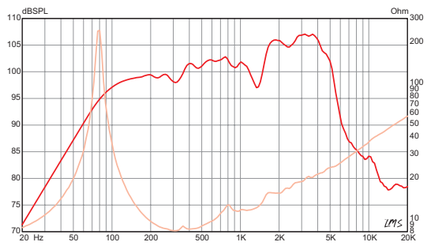
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.079 cu.ft., 2.25 liters
Overall Diameter	12.17”, 309.1 mm
Baffle Hole Diameter	11.13”, 282.7 mm
Depth	5.25”, 133.4 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.24”, 6.1 mm
Mounting Holes B.C.D.	11.75”, 298.5 mm
Net Weight	10.8 lbs , 4.9 kg
Shipping Weight	12.5 lbs , 5.67 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Nomex former
Ferrite magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

REDCOAT GUITAR SERIES

CV-65

Tapping in to another flavor of classic British tone, the 12" CV-65 features warm, throaty mids, sweet, articulate highs, and nice, detailed harmonic complexity. As compared to the 75 watt model, the 65 watt CV-65 is more round and full in the lows, less aggressive in the mids, and is more focused and articulate on the highs.

12" | 65 WATTS 8 Ω

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 Ω
Power Rating*	65 W
Resonance (Fs)	76 Hz
Usable Frequency Range	80 Hz – 5 kHz
Sensitivity*	100.6 dB
DC Resistance (Re)	6.9 Ω
Qts	0.59
Magnet Weight	34 oz.
Gap Height	0.31", 8 mm
Voice Coil Diameter	1.75", 44 mm

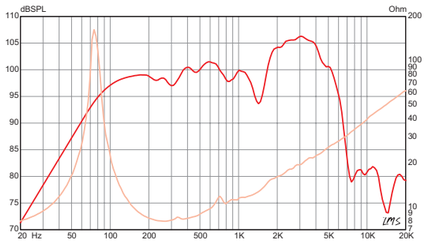
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.069 cu.ft., 1.96 liters
Overall Diameter	12.17", 309.1 mm
Baffle Hole Diameter	11.13", 282.7 mm
Depth	5.13", 130.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.24", 6.1 mm
Mounting Holes B.C.D.	11.75", 298.5 mm
Net Weight	7.3 lbs , 3.31 kg
Shipping Weight	9.4 lbs , 4.26 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Nomex former
Ferrite magnet
Non-vented core
Pressed steel basket
Full molded paper cone
Paper cone edge
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

REDCOAT GUITAR SERIES

THE GOVERNOR™

A versatile guitar speaker with classic British tone, offering tight, punchy lows, warm, raunchy mids, warm, smooth highs, and early break-up. A favorite among professional players on both sides of the pond.

12" | 75 WATTS 8 OR 16 Ω

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 or 16 Ω
Power Rating*	75 W
Resonance (Fs)	101 Hz
Usable Frequency Range	80 Hz – 4.2 kHz
Sensitivity*	102.3 dB
DC Resistance (Re)	6.81 Ω
Qts	0.56
Magnet Weight	56 oz.
Gap Height	0.31", 7.9 mm
Voice Coil Diameter	1.75", 44 mm

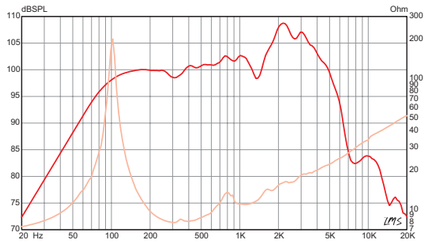
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.079 cu.ft., 2.25 liters
Overall Diameter	12.03", 305.6 mm
Baffle Hole Diameter	11.07", 281.2 mm
Depth	5.2", 132.1 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25", 6.4 mm
Mounting Holes B.C.D.	11.59", 294.4 mm
Net Weight	10.8 lbs , 4.9 kg
Shipping Weight	12.6 lbs , 5.72 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Nomex former
Ferrite magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

REDCOAT GUITAR SERIES

THE WIZARD™

The Eminence Wizard guitar speaker is one of the most versatile and well-balanced 12” speakers you will find. Very articulate, but with a hint of grit. Nice sustain and exceptionally tight bottom. Classic Rock tones of the ‘60s and ‘70s, and a favorite among today’s heavy rockers.

12” | 75 WATTS 8 OR16 Ω

SPECIFICATION

Nominal Basket Diameter	12”, 305 mm
Nominal Impedance*	8 or 16 Ω
Power Rating*	75 W
Resonance (Fs)	89 Hz
Usable Frequency Range	80 Hz – 5.3 kHz
Sensitivity*	102.8 dB
DC Resistance (Re)	6.13 Ω
Qts	0.47
Magnet Weight	56 oz.
Gap Height	0.31”, 7.9 mm
Voice Coil Diameter	1.75”, 44 mm

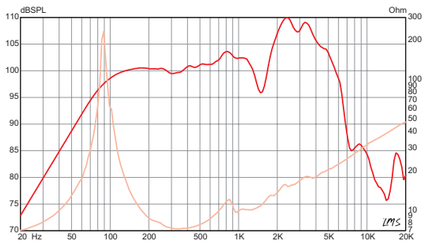
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.079 cu.ft., 2.25 liters
Overall Diameter	12.03”, 305.6 mm
Baffle Hole Diameter	11.07”, 281.2 mm
Depth	5.2”, 132.1 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25”, 6.4 mm
Mounting Holes B.C.D.	11.59”, 294.4 mm
Net Weight	11.1 lbs , 5.03 kg
Shipping Weight	12.5 lbs , 5.67 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Nomex former
Ferrite magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

FDM™ TECHNOLOGY

REIGNMAKER™

Don’t sacrifice tone for lower stage volume! The Eminence ReignMaker™ guitar speaker with patent-pending FDM™ technology puts tonal control at your fingertips. Simply adjust the knob on the back of the speaker to attenuate volume while creating an overdriven, saturated tube tone. Perfect for small venues, studios and practice situations. Very balanced British tone with tight/punchy lows, warm/detailed mids, abundant in harmonic detail, and articulate highs.

12” | 75 WATTS 8 Ω

SPECIFICATION

Nominal Basket Diameter	12”, 305 mm
Nominal Impedance*	8 Ω
Power Rating*	75 W
Resonance (Fs)	91 Hz
Usable Frequency Range	80 Hz – 6.2 kHz
Sensitivity*	91.5 – 100 dB
DC Resistance (Re)	5.98 Ω
Qts	1.29
Magnet Weight	38 oz.
Gap Height	0.31”, 7.9 mm
Voice Coil Diameter	1.75”, 44 mm

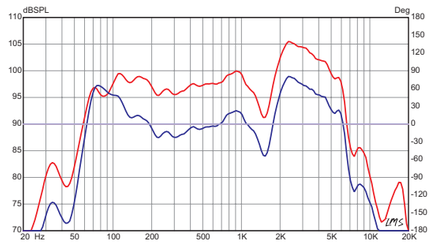
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.078 cu.ft., 2.2 liters
Overall Diameter	12.03”, 305.6 mm
Baffle Hole Diameter	11.07”, 281.2 mm
Depth	6.56”, 166.7 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25”, 6.4 mm
Mounting Holes B.C.D.	11.59”, 294.4 mm
Net Weight	7.8 lbs , 3.54 kg
Shipping Weight	9.7 lbs , 4.4 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Polyimide former
Ferrite Magnet
FDM Technology
Pressed steel basket
Paper cone
Paper cone edge
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

REDCOAT GUITAR SERIES

PRIVATE JACK™

The Eminence Private Jack guitar speaker is chock full of classic British flavor. A very well balanced speaker, moderate on the lows but thick and smooth, with abundant, warm and throaty mids and extended highs.

12” | 50 WATTS 8 OR 16 Ω

SPECIFICATION

Nominal Basket Diameter	12”, 305 mm
Nominal Impedance*	8 or 16 Ω
Power Rating*	50 W
Resonance (Fs)	96 Hz
Usable Frequency Range	80 Hz – 5 kHz
Sensitivity*	101 dB
DC Resistance (Re)	7.01 Ω
Qts	0.69
Magnet Weight	38 oz.
Gap Height	0.31”, 7.9 mm
Voice Coil Diameter	1.75”, 44 mm

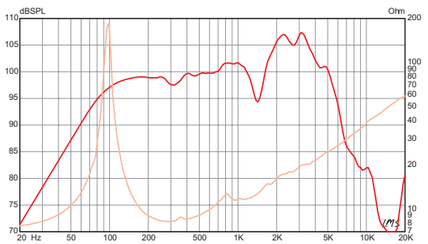
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.071 cu.ft., 2 liters
Overall Diameter	12.03”, 305.6 mm
Baffle Hole Diameter	11.07”, 281.2 mm
Depth	5.1”, 129.5 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25”, 6.4 mm
Mounting Holes B.C.D.	11.59”, 294.4 mm
Net Weight	8 lbs , 3.63 kg
Shipping Weight	9.8 lbs , 4.45 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Paper former
Ferrite magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

REDCOAT GUITAR SERIES

RED FANG™

The Eminence Red Fang 12” guitar speaker defines the British Invasion. Focused and punchy vintage alnico tone with tight definition, warm mids and chimey highs. Abundant in harmonic detail with nice, clear undertones.

12” | 50 WATTS 8 Ω

SPECIFICATION

Nominal Basket Diameter	12”, 305 mm
Nominal Impedance*	8 Ω
Power Rating*	50 W
Resonance (Fs)	97 Hz
Usable Frequency Range	80 Hz – 5.2 kHz
Sensitivity*	102.5 dB
DC Resistance (Re)	5.72 Ω
Qts	0.7
Magnet Weight	35 oz.
Gap Height	0.31”, 7.9 mm
Voice Coil Diameter	1.75”, 44 mm

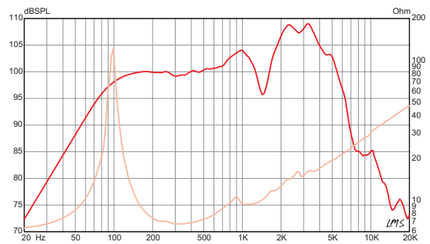
MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.079 cu.ft., 2.24 liters
Overall Diameter	12.03”, 305.6 mm
Baffle Hole Diameter	11.07”, 281.2 mm
Depth	6.2”, 157.5 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25”, 6.4 mm
Mounting Holes B.C.D.	11.59”, 294.4 mm
Net Weight	8.8 lbs , 3.99 kg
Shipping Weight	10.6 lbs , 4.81 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Nomex former
Alnico magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

REDCOAT GUITAR SERIES

BIG BEN

The Eminence Big Ben guitar speaker sounds off with big British tone. A very clean and warm throaty tone with fat bass and smooth mids and highs. Abundant in lower-mid girth. A fatter, cleaner Legend 1518. A favorite among Jazz and detuned players.

15” | 225 WATTS 8 Ω

SPECIFICATION

Nominal Basket Diameter	15”, 381 mm
Nominal Impedance*	8 Ω
Power Rating*	225 W
Resonance (Fs)	85 Hz
Usable Frequency Range	70 Hz – 3.5 kHz
Sensitivity*	101.3 dB
DC Resistance (Re)	6.06 Ω
Qts	0.94
Magnet Weight	56 oz.
Gap Height	0.37”, 9.5 mm
Voice Coil Diameter	2.5”, 64 mm

MOUNTING INFORMATION

Enclosure Type	
Closed Back	Acceptable
Open Back	Acceptable
Driver Volume Displaced	0.128 cu.ft., 3.62 liters
Overall Diameter	15.15”, 384.8 mm
Baffle Hole Diameter	13.87”, 352.3 mm
Depth	6.1”, 154.9 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25”, 6.4 mm
Mounting Holes B.C.D.	14.56”, 369.8 mm
Net Weight	12.6 lbs , 5.72 kg
Shipping Weight	14.9 lbs , 6.76 kg

MATERIALS OF CONSTRUCTION

Copper voice coil
Polyimide former
Ferrite magnet
Non-vented core
Pressed steel basket
Paper cone
Paper cone edge
Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*

* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

Guitar Speaker Tonal Characteristics and Application Guide

*Coloration, tone, and the appropriateness of a speaker for a specific genre of music are very subjective subjects. Eminence has dedicated countless hours to the tonal evaluation of each speaker in this guide. Additional listening tests have been conducted by many of the endorsing artists listed on our web site, all recognized in the music industry as experts on the subject of guitar tone. This data is provided to be used as a general guideline to aid in guitar speaker selection, however the suitability of a specific speaker for a specific purpose is a matter of personal taste and can only be determined by you the user. Eminence makes no guarantees regarding the suitability of any speaker in this guide for any specific application.

MODEL	APPLICATION	LOW END RESPONSE	LOW END SHAPE	MID-RANGE RESPONSE	MID-RANGE SHAPE	HIGH-END RESPONSE	VOLUME / POWER	OVERALL COLORATION*	BREAK-UP MODE	POWER RANGE
SIGNATURE SERIES										
DOUBLE-T 12	12” Open or Closed Back	Aggressive	Tight/Punchy	Moderate	Warm	Aggressive	Louder	A lightweight, but powerful speaker optimized for steel guitar with tight, punchy lows, nice mids that cut through the mix, and detailed highs.	Slow	Up to 300 watts
EJ1240	12” Open or Closed Back	Moderate	Tight/Punchy	Moderate	Warm	Aggressive	Loudest	Vintage Alnico tone with tight/punchy lows, nice lower mid growl, crisp upper-mids, and very controlled, articulate, and open highs.	Medium	Up to 40 watts
GA-SC64	12” Open or Closed Back	Moderate	Tight/Punchy	Moderate	Warm	Moderate	Louder	Vintage American ceramic magnet tone. Well-balanced from top to bottom with tight, full lows, warm mids, and warm, but open highs.	Medium	Up to 40 watts
GA10-SC64	10” Open or Closed Back	Moderate	Tight/Punchy	Moderate	Warm	Moderate	Loud	Vintage American ceramic magnet tone in a 10”. A tight, punchy tone with nice warmth, richness, and sparkling highs.	Medium	Up to 20 watts
HEMPDOG 12	12” Open or Closed Back	Aggressive	Fat/Round	Moderate	Warm	Moderate	Louder	Av clean, clear, neutral voiced speaker with hemp cone warmth and fullness.	Slow	Up to 150 watts
TF-1250	12” Open or Closed Back	Moderate	Tight/Punchy	Moderate	Warm	Aggressive	Loud	A touch sensitive, bright and chimey vintage American tone with tight, punchy lows and nice, even mids.	Medium	Up to 50 watts
PATRIOT SERIES										
620H	6” Open or Closed Back	Aggressive	Fat/Round	Moderate	Warm	Moderate	Loudest	Warm, full, and clean tone that will make a small, thin amp sound bigger and fatter. Cleaner, warmer, fatter, and better definition than any stock 6”.	Slow	Up to 20 watts
820H	8” Open or Closed Back	Aggressive	Fat	Moderate	Warm	Moderate	Loudest	A rich, warm, full bodied tone that emulates a larger cone, with fat, punchy lows, smooth, but defined highs, and a nice break up. Prominent mids, but with a warm, smooth texture.	Medium	Up to 20 watts
THE COPPERHEAD	10” Open or Closed Back	Moderate	Tight	Aggressive	Warm	Moderate	Louder	Extremely balanced vintage tone with a little country honk and a touch of classic blues tone.	Medium	Up to 75 watts
RAGIN CAJUN	10” Open or Closed Back	Aggressive	Chunky	Moderate	Crisp	Aggressive	Loudest	Very loud, touch sensitive and responsive with nice bell sounding top end and a little bite.	Medium	Up to 75 watts
LIL' BUDDY	10” Open or Closed Back	Aggressive	Fat/Round	Moderate	Warm	Subdued	Louder	A clean and full tone, slow to break-up, but crunchy when driven. Smoother and less defined than most 10’s.	Slow	Up to 50 watts
SWAMP THANG	12” Open or Closed Back	Aggressive	Fat/Round	Aggressive	Dark	Moderate	Loudest	Very powerful, thick and chunky tone. Very touch sensitive with good sustain. Awesome bottom end.	Slow	Up to 150 watts

MODEL	APPLICATION	LOW END RESPONSE	LOW END SHAPE	MID-RANGE RESPONSE	MID-RANGE SHAPE	HIGH-END RESPONSE	VOLUME / POWER	OVERALL COLORATION*	BREAK-UP MODE	POWER RANGE
PATRIOT SERIES										
RED WHITE AND BLUES	12" Open or Closed Back	Moderate	Tight	Moderate	Warm	Aggressive	Louder	Nice tight low-end, smooth midrange and top end sparkle. American cousin to The Governor.	Medium	Up to 120 watts
TEXAS HEAT	12" Open or Closed Back	Aggressive	Fat/Chunky	Aggressive	Crisp	Moderate	Louder	Nice warm, fat tone with a little top end bite and clarity. Very touch sensitive with a hint of British flavor.	Medium	Up to 150 watts
LIL' TEXAS	12" Open or Closed Back	Aggressive	Tight	Aggressive	Crisp	Aggressive	Louder	Very balanced with crisp mids and top end bite. Tight bottom end, very American tonality.	Medium	Up to 125 watts
CANNABIS REX	12" Open or Closed Back	Aggressive	Fat/Round	Moderate	Warm	Moderate	Loudest	Clean and full, with lots of body and sparkle. Smokey smooth with high-end definition.	Slow	Up to 50 watts
MAVERICK	12" Open Back	Aggressive	Fat/Round	Moderate	Warm	Moderate	Louder	Very balanced, warm, fat, clean American tone with fat lows, warm mids, and articulate highs. More attenuation provides more warmth and fatter lows	Medium	Up to 75 watts
EPS-12C	12" Open Back	Aggressive	Tight	Moderate	Warm	Moderate	Louder	A fast and dynamic, lightweight pedal guitar speaker that has been field tested in Nashville, Arizona, Texas, and LA. It has a full low end, neutral mids, and is bright and clear.	Slow	Up to 225 watts
EPS-15C	15" Open Back	Aggressive	Tight	Moderate	Warm	Moderate	Louder	A lightweight solution for pedal steel guitar. Tight, punchy lows and warm, smooth mids combined with chimey, twangy highs from a vintage style aluminum dust cap.	Slow	Up to 300 watts
REDCOAT SERIES										
RAMROD	10" Open or Closed Back	Aggressive	Chunky	Moderate	Warm	Aggressive	Louder	Very loud, gutsy, and meaty tone with singing highs and nice, clear overtones	Medium	Up to 75 watts
RF10C	10" Open or Closed Back	Aggressive	Fat/Round	Moderate	Warm	Aggressive	Louder	Ceramic version of our Red Fang 10. A round and beefy British tone with abundant harmonic detail, full lows, and nice grit and chime.	Medium	Up to 50 watts
CV-65	12" Open or Closed Back	Moderate	Fat/Round	Aggressive	Warm	Aggressive	Louder	A classic British tone with modern power handling featuring warm, throaty mids, sweet, articulate highs, and nice, detailed harmonic complexity.	Medium	Up to 65 watts
CV-75	12" Open or Closed Back	Moderate	Tight	Aggressive	Warm	Moderate	Loudest	The epitome of British tone with a complete tonal balance....grunt and punch in the lows, warm/tailored mids, and nice, clear, open/airy highs.	Medium	Up to 75 watts
PRIVATE JACK	12" Open or Closed Back	Moderate	Tight	Moderate	Warm	Aggressive	Louder	Thick and smooth, with lots of mids and extended highs. Very well balanced speaker. Classic British flavor	Medium	Up to 50 watts
RED FANG	12" Open or Closed Back	Moderate	Chunky	Moderate	Warm	Aggressive	Loudest	Vintage British sound with warm undertones and high-end sparkle	Fast	Up to 50 watts

MODEL	APPLICATION	LOW END RESPONSE	LOW END SHAPE	MID-RANGE RESPONSE	MID-RANGE SHAPE	HIGH-END RESPONSE	VOLUME / POWER	OVERALL COLORATION*	BREAK-UP MODE	POWER RANGE
REDCOAT SERIES										
THE GOVERNOR	12" Open or Closed Back	Moderate	Tight	Aggressive	Warm	Moderate	Loudest	Classic British tone. Thick and raunchy with lots of mids	Fast	Up to 75 watts
THE TONKER	12" Open or Closed Back	Aggressive	Fat/Round	Moderate	Warm	Moderate	Loudest	A very fat, clean and warm tone through the mid-range, smooth top end	Medium	Up to 150 watts
TONKERLITE	12" Open or Closed Back	Aggressive	Fat/Round	Moderate	Warm	Aggressive	Loudest	A nice round, balanced tone like the Tonker, but with extended top end and less lower-mid meat.	Medium	Up to 125 watts
THE WIZARD	12" Open or Closed Back	Aggressive	Fat/Chunky	Aggressive	Warm	Aggressive	Loudest	Very articulate, but with a hint of grit. Nice sustain and exceptionally good tight bottom. Cross between Private Jack and The Governor	Medium	Up to 75 watts
MAN O WAR	12" Open or Closed Back	Moderate	Chunky	Aggressive	Crisp	Aggressive	Loudest	A proven and revered sound, very loud and responsive/articulate in every register. Chunky and solid sound with a little top end sparkle	Slow	Up to 120 watts
REIGNMAKER	12" Open Back	Moderate	Tight	Aggressive	Warm	Aggressive	Louder	Very balanced British tone with tight/punchy lows, warm/detailed mids, abundant in harmonic detail, and articulate highs. More attenuation provides more warmth and fatter lows.	Medium	Up to 75 watts
BIG BEN	15" Open Back	Aggressive	Fat/Round	Subdued	Dark	Moderate	Louder	A very big, clean and warm British sound. A somewhat throaty tone with fat bass and smooth highs.	Medium	Up to 225 watts
LEGEND SERIES										
LEGEND 1028K	10" Open or Closed Back	Subdued	Tight	Moderate	Warm	Aggressive	Loud	Vintage American tone with moderate, but tight, percussive lows and extended highs.	Fast	Up to 35 watts
LEGEND 1058	10" Open or Closed Back	Moderate	Chunky	Moderate	Warm	Moderate	Louder	Vintage American tone with punchy lows and warm, smooth, bluesy mids and highs. Fatter, deeper Legend 1028K tone.	Medium	Up to 75 watts
LEGEND 1275	12" Open or Closed Back	Moderate	Tight	Aggressive	Warm	Aggressive	Loud	Classic Eminence OEM type tone with tight, punchy lows, warm mids, and crisp, articulate, open highs	Medium	Up to 75 watts
LEGEND EM12	12" Open or Closed Back	Aggressive	Fat/Round	Moderate	Warm	Moderate	Louder	Ultra clean with big, round, punchy lows and warm, smooth mids and highs. A more neutral tone so you can hear more of the amp and guitar.	Slow	Up to 300 watts
LEGEND 1258	12" Open or Closed Back	Subdued	Tight	Moderate	Warm	Aggressive	Louder	Vintage American tone with tight lows and warm, smooth mids and highs. Strong upper mid emphasis and extended highs.	Medium	Up to 75 watts
LEGEND V128	12" Open or Closed Back	Moderate	Tight	Moderate	Warm	Moderate	Louder	Balanced, more mellow British sound with warm, smooth mids and highs and tight lows.	Medium	Up to 120 watts
LEGEND GB128	12" Open or Closed Back	Moderate	Fat/Round	Moderate	Warm	Moderate	Louder	Cleaner British voiced tone with a full low end, warm, throaty mids and a very open top end. A cleaner Private Jack tone with a fatter low end.	Medium	Up to 50 watts
LEGEND 1218	12" Open or Closed Back	Aggressive	Fat/Round	Moderate	Warm	Moderate	Louder	Very balanced, fat, round, punchy lows and warm, smooth mids and lows, very clean and articulate.	Medium	Up to 150 watts
LEGEND 1518	15" Open Back	Aggressive	Tight	Moderate	Warm	Moderate	Louder	Well balanced 15" with tight/punchy lows and warm, smooth mids and highs.	Medium	Up to 150 watts

HERE'S THE LOW-DOWN ON GETTING GREAT BASS TONE.

No one knows the physics of bass cabinets better than Eminence.

Understanding how woofers push things around inside an enclosure is a science and an art. That's why most bass amp manufacturers choose Eminence to supply custom designed speakers for their enclosures. Whether it's a small practice amp or 8x10 stack for the stage, there's an Eminence speaker that's designed to drive the lows as tight, fat, round or warm as you want.

The Legend Series has been a fixture on back lines for years, thumping out the bottom end for R&B, blues, rock, jazz and more. For lighter weight, but equal power, the Basslite® Series features neodymium magnets for maximum sonic punch without back-breaking load-ins.

BGH25-8

A 25 watt driver and die cast horn combination optimized specifically for bass guitar applications.

Type	Exponential
Throat Size	1.0", 25.4 mm
Dispersion	60°
Power Rating**	25 W (AES)
Nominal Impedance	8 Ω
Minimum Impedance	8.6 Ω @ 7.4 kHz
Usable Frequency Range	2.5 kHz - 20 kHz
Recommended Crossover	2.5 kHz / 12 dB
Resonance	1.3 kHz
Sensitivity	105.2 dB
Width/Height/Depth	4.20 x 4.20 x 4.80", 106.7 x 106.7 x 121.9 mm
Cut-out	3.5 in., 88.9 mm
Weight	2.20 lb., 1.00 kg
Material	Aluminum

In addition to our Legend and Basslite® models, Eminence offers many Pro Audio woofers that have been a mainstay among the industry's finest players and amplifier brands.

PRO AUDIO MODELS FOR BASS		POWER	SPL	XMAX
5"				
PRO 5MRN	8 Ω	130 W	93.1 dB	.5 mm
PRO 5W	8 Ω	150 W	91.1 dB	3 mm
10"				
KAPPA PRO 10LF	8 Ω	1200 W	92 dB	7.2 mm
KAPPALITE 3010LF	8 Ω	900 W	93 dB	8.5 mm
DELTA 10A AND B	8 or 16 Ω	700 W	99 dB	3.5 mm
DELTALITE II 2510	8 or 4 Ω	500 W	97 dB	4.2 mm
BETA 10A	8 Ω	500 W	97 dB	3 mm
12"				
IMPERO 12A	8 Ω	2200 W	93 dB	6.2 mm
DEFINIMAX 4012HO	8 Ω	1200 W	94 dB	6.2 mm
DELTA 12LFA AND C	8 or 16 Ω	1000 W	95 dB	4.8 mm
KAPPALITE 3012LF	8 or 4 Ω	900 W	96 dB	9.1 mm
KAPPALITE 3012HO	8 Ω	800 W	101 dB	6.2 mm
DELTALITE II 2512	8 Ω	500 W	100 dB	4.9 mm
BETA 12A-2	8 Ω	500 W	98 dB	4.4 mm
15"				
IMPERO 15A AND C	8 or 4 Ω	2400 W	96 dB	7.3 mm
DEFINIMAX 4015LF	8 Ω	1400 W	96 dB	9 mm
KAPPA PRO 15LF-2	8 or 4 Ω	1200 W	98 dB	6.7 mm
KAPPA 15LFA	8 Ω	1200 W	99 dB	5.5 mm
KAPPA PRO 15A	8 Ω	1000 W	101 dB	3.2 mm
DELTA 15LFA	8 or 4 Ω	1000 W	96 dB	4.8 mm
KAPPALITE 3015	8 Ω	900 W	101 dB	5.9 mm
KAPPALITE 3015LF	8 or 4 Ω	900 W	98 dB	9.6 mm
DELTALITE II 2515	8 Ω	600 W	99 dB	4.8 mm
BETA 15A	8 Ω	600 W	98 dB	4 mm
18"				
KAPPA PRO 18LF	8 Ω	1600 W	98 dB	8 mm
IMPERO 18A AND C	8 or 4 Ω	2400 W	96 dB	8 mm

BASS GUITAR

LEGEND CA10

Made famous as an OEM model in many popular bass guitar cabinet brands, this highly sought after design features a truncated cast frame chassis for tight fitting in your 2x, 4x and 8x10 cabinet. Loud and clear bass guitar tone with legendary growl.

- **400 W** Program Power
- **10"** Nominal Diameter
- **4, 8, 16** or **32 Ω**

ENCLOSURE

Sealed Box	
Vented Box	✔

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	4, 8, 16 or 32 Ω
Power Rating*	
Program Power	400 W
Nominal Power	200 W
Resonance	55 Hz
Usable Frequency Range	54 Hz – 3 kHz
Sensitivity*	94.4 dB
Magnet Weight	38 oz.
Gap Height	0.31", 7.9 mm
Voice Coil Diameter	2", 51 mm

THIELE & SMALL PARAMETERS

Fs	55 Hz
Re	3.7 Ω
Le	0.49 mH
Qms	7.67
Qes	0.41
Qts	0.39
Vas	1.62 cu.ft., 45.94liters
Vd	105.7 cc
Cms	0.27 mm/N
BL	9.72 T-M
Mms	30 grams
EBP	135
Xmax	3.02 mm
Sd	350.1 cm2
Xlim	7 mm

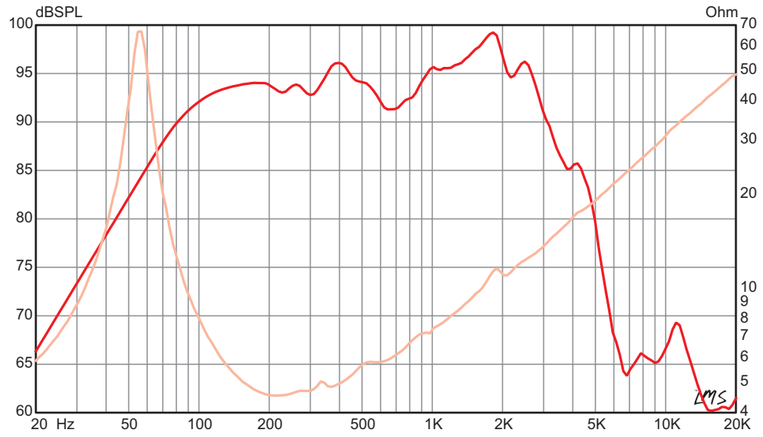
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	12.74–55.22 liters, 0.45–1.95 cu.ft.
Driver Volume Displaced	0.043 cu.ft., 1.22 liters
Major Diameter	10.5", 266.7 mm
Flat to Flat Diameter	10.14", 257.6 mm
Baffle Hole Diameter	9.01", 228.9 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.3", 7.6 mm
Mounting Holes B.C.D.	9.71", 246.5 mm
Depth	4.44", 112.8 mm
Net Weight	8.8 lbs , 3.99 kg
Shipping Weight	9.7 lbs , 4.4 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Kapton former
- Ferrite magnet
- Vented and extended core
- Die-cast aluminum basket
- Paper cone
- Cloth cone edge
- Treated paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

BASS GUITAR

LEGEND B102

Recommended for professional bass guitar applications in a vented enclosure. The secondary whizzer cone extends the high-end frequency range. Great if you want a full range tone without adding a tweeter. Also suitable as a professional audio or home hi-fi midrange.

- **400 W** Program Power
- **10"** Nominal Diameter
- **8 Ω**

PRO AUDIO USAGE		ENCLOSURE	
Midrange	✔	Sealed Box	
Midbass		Vented Box	✔
Woofer			
Subwoofer			

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	400 W
Nominal Power	200 W
Resonance	48 Hz
Usable Frequency Range	44 Hz – 4 kHz
Sensitivity*	92.4 dB
Magnet Weight	45 oz.
Gap Height	0.31", 7.9 mm
Voice Coil Diameter	2", 51 mm

THIELE & SMALL PARAMETERS

Fs	48 Hz
Re	6.89 Ω
Le	0.67 mH
Qms	5.31
Qes	0.42
Qts	0.39
Vas	2.3 cu.ft., 65liters
Vd	103.5 cc
Cms	0.4 mm/N
BL	11.8 T-M
Mms	28 grams
EBP	113
Xmax	3 mm
Sd	344.9 cm2
Xlim	8 mm

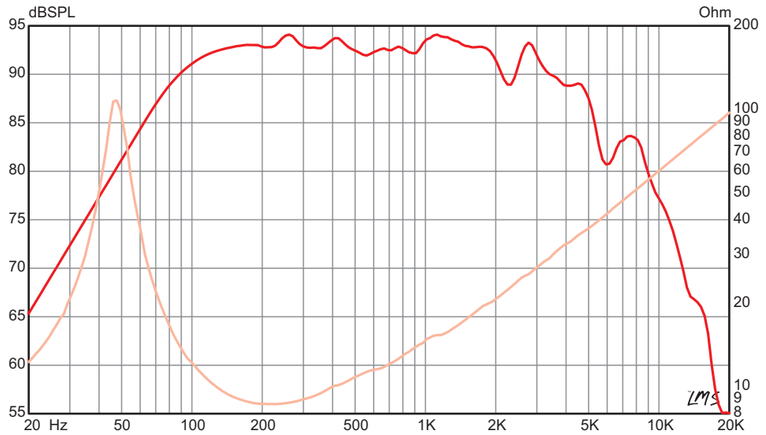
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	18–85 liters, 0.63–3 cu.ft.
Driver Volume Displaced	0.047 cu.ft., 1.33 liters
Overall Diameter	10.25", 260.4 mm
Baffle Hole Diameter	9.13", 231.9 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	9.75", 247.7 mm
Depth	4.33", 110 mm
Net Weight	9.7 lbs , 4.4 kg
Shipping Weight	10.9 lbs , 4.94 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented and extended core
- Die-cast aluminum basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

BASS GUITAR

LEGEND BP102

A popular bass guitar speaker with a proven track record. Revered for its low-end punch. Works well in a sealed or vented enclosure and in single or multi-driver designs.

- **400 W** Program Power
- **10"** Nominal Diameter
- **8** or **4 Ω**

PRO AUDIO USAGE		ENCLOSURE	
Midrange		Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔		
Subwoofer	✔		

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 or 4 Ω
Power Rating*	
Program Power	400 W
Nominal Power	200 W
Resonance	35 Hz
Usable Frequency Range	40 Hz – 2 kHz
Sensitivity*	91.8 dB
Magnet Weight	38 oz.
Gap Height	0.31", 7.9 mm
Voice Coil Diameter	2", 51 mm

THIELE & SMALL PARAMETERS

Fs	35 Hz
Re	5.59 Ω
Le	0.83 mH
Qms	5.36
Qes	0.47
Qts	0.43
Vas	3.22 cu.ft., 91.2liters
Vd	207.4 cc
Cms	0.54 mm/N
BL	10 T-M
Mms	38 grams
EBP	75
Xmax	6.2 mm
Sd	334.5 cm2
Xlim	10 mm

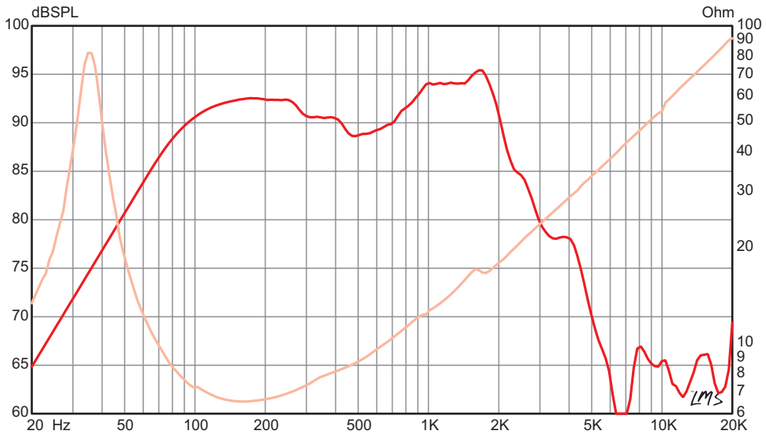
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	14–28 liters, 0.5–1 cu.ft.
Vented	25.5–62 liters, 0.9–2.2 cu.ft.
Driver Volume Displaced	0.041 cu.ft., 1.17 liters
Overall Diameter	10.08", 256 mm
Baffle Hole Diameter	9.18", 233.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25", 6.4 mm
Mounting Holes B.C.D.	9.66", 245.4 mm
Depth	4.25", 108 mm
Net Weight	8.9 lbs , 4.04 kg
Shipping Weight	9.1 lbs , 4.13 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Non-vented core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

BASS GUITAR

BASSLITE® SC10

Optimized specifically for sealed bass cabinets, the ultra-lightweight Basslite SC10 will take the weight out, but leave the performance in. Featuring a 4 oz. neodymium magnet and 2 inch voice coil, this 10 inch speaker is available in 16 and 32 ohms for your 4x10 or 8x10 rig.

- **300 W** Program Power
- **10"** Nominal Diameter
- **16** or **32 Ω**

ENCLOSURE	
Sealed Box	✔
Vented Box	✔

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	16 or 32 Ω
Power Rating*	
Program Power	300 W
Nominal Power	150 W
Resonance	46 Hz
Usable Frequency Range	50 Hz – 4.2 kHz
Sensitivity*	94.3 dB
Magnet Weight	4 oz.
Gap Height	0.28", 7.1 mm
Voice Coil Diameter	2", 51 mm

THIELE & SMALL PARAMETERS

Fs	46 Hz
Re	12.21 Ω
Le	0.89 mH
Qms	2.23
Qes	0.56
Qts	0.45
Vas	2.76 cu.ft., 78.27liters
Vd	154 cc
Cms	0.46 mm/N
BL	12.79 T-M
Mms	26 grams
EBP	81
Xmax	4.4 mm
Sd	350.1 cm2
Xlim	9 mm

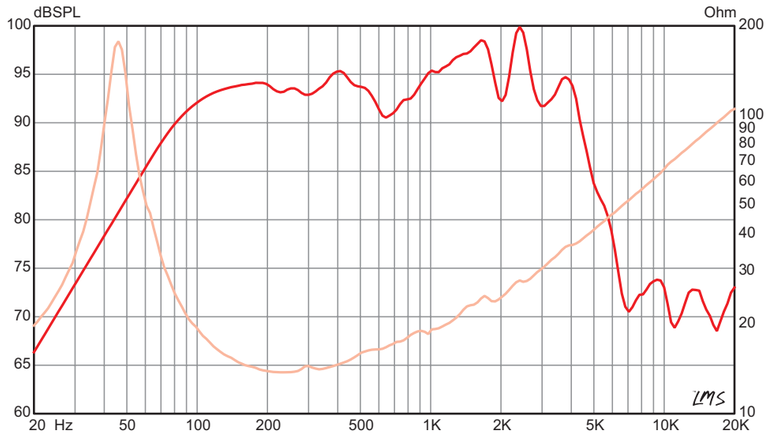
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	16.79–40.49 liters, 0.59–1.43 cu.ft.
Vented	27.47–69.38 liters, 0.94–2.45 cu.ft.
Driver Volume Displaced	0.03 cu.ft., 0.84 liters
Overall Diameter	10.08", 256 mm
Baffle Hole Diameter	9.18", 233.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25", 6.4 mm
Mounting Holes B.C.D.	9.66", 245.4 mm
Depth	4.25", 108 mm
Net Weight	3.5 lbs , 1.59 kg
Shipping Weight	4.6 lbs , 2.09 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Neodymium magnet
- Non-vented core
- Pressed steel basket
- Curved paper cone
- Cloth cone edge
- Solid composition felt dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

BASS GUITAR

BASSLITE® S2010

An efficient, ultra-lightweight 10" neodymium speaker recommended for bass guitar applications. Ideal in vented 1X, 2X, and 4 X10 enclosures.

- **300 W** Program Power
- **10"** Nominal Diameter
- **8 Ω**

PRO AUDIO USAGE		ENCLOSURE	
Midrange		Sealed Box	
Midbass	✔	Vented Box	✔
Woofer	✔		
Subwoofer			

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	300 W
Nominal Power	150 W
Resonance	46 Hz
Usable Frequency Range	54 Hz – 3 kHz
Sensitivity*	96.2 dB
Magnet Weight	4 oz.
Gap Height	0.28", 7.1 mm
Voice Coil Diameter	2", 51 mm

THIELE & SMALL PARAMETERS

Fs	46 Hz
Re	5.02 Ω
Le	0.47 mH
Qms	4.16
Qes	0.34
Qts	0.31
Vas	2.24 cu.ft., 63.4liters
Vd	140 cc
Cms	0.36 mm/N
BL	11.9 T-M
Mms	33 grams
EBP	135
Xmax	4 mm
Sd	350.1 cm2
Xlim	8 mm

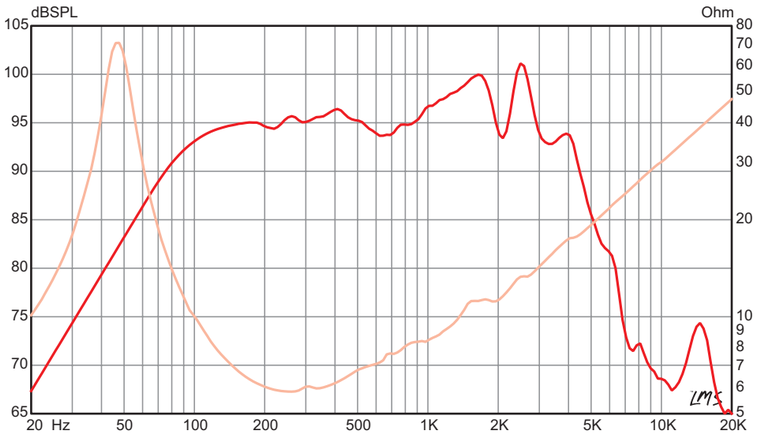
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	N/A
Vented	20–51 liters, 0.7–1.8 cu.ft.
Driver Volume Displaced	0.03 cu.ft., 0.84 liters
Overall Diameter	10.08", 256 mm
Baffle Hole Diameter	9.18", 233.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	N/A
Mounting Holes Diameter	0.25", 6.4 mm
Mounting Holes B.C.D.	9.66", 245.4 mm
Depth	4.25", 108 mm
Net Weight	3.5 lbs , 1.59 kg
Shipping Weight	4.6 lbs , 2.09 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Neodymium magnet
- Non-vented core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition felt dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

BASS GUITAR

LEGEND B810

A 32 ohm, 10 inch bass guitar speaker offering classic sound with modern features. A perfect replacement for your 8x10 cabinet.

- **300 W** Program Power
- **10"** Nominal Diameter
- **32 Ω**

ENCLOSURE	
Sealed Box	✔
Vented Box	✔

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	32 Ω
Power Rating*	
Program Power	300 W
Nominal Power	150 W
Resonance	52 Hz
Usable Frequency Range	49 Hz – 5.1 kHz
Sensitivity*	92.7 dB
Magnet Weight	30 oz.
Gap Height	0.31", 7.9 mm
Voice Coil Diameter	2", 51 mm

THIELE & SMALL PARAMETERS

Fs	52 Hz
Re	27.5 Ω
Le	2.72 mH
Qms	13.91
Qes	0.68
Qts	0.65
Vas	2.34 cu.ft., 66.4liters
Vd	165.2 cc
Cms	0.39 mm/N
BL	17.7 T-M
Mms	24 grams
EBP	77
Xmax	4.7 mm
Sd	350.1 cm2
Xlim	9.5 mm

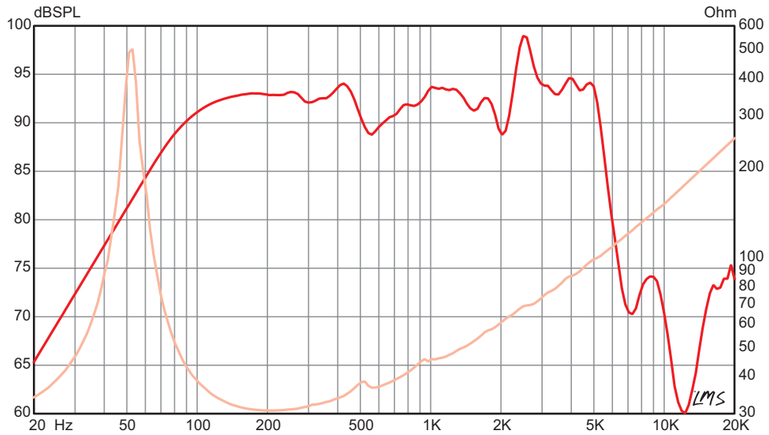
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	14–35 liters, 0.5–1.3 cu.ft.
Vented	45.76–76 liters, 1.6–2.7 cu.ft.
Driver Volume Displaced	0.039 cu.ft., 1.1 liters
Overall Diameter	10.11", 256.8 mm
Baffle Hole Diameter	9.13", 231.9 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.23", 5.8 mm
Mounting Holes B.C.D.	9.6", 243.8 mm
Depth	4.08", 103.6 mm
Net Weight	6.7 lbs , 3.04 kg
Shipping Weight	7.9 lbs , 3.58 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Kapton former
- Ferrite magnet
- Bumped
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Zurette dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

BASS GUITAR

LEGEND BP122

A 12" bass guitar driver that delivers warm, rich tone and deep bass. A big brother to the popular 10" Legend BP102, this 250 watt driver is at home in small sealed enclosures, and also works well in pro audio and home hi-fi applications.

- **500 W** Program Power
- **12"** Nominal Diameter
- **8 Ω**

PRO AUDIO USAGE		ENCLOSURE	
Midrange		Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔		
Subwoofer	✔		

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	500 W
Nominal Power	250 W
Resonance	35 Hz
Usable Frequency Range	35 Hz – 2.3 kHz
Sensitivity*	94.1 dB
Magnet Weight	38 oz.
Gap Height	0.31", 7.9 mm
Voice Coil Diameter	2", 51 mm

THIELE & SMALL PARAMETERS

Fs	35 Hz
Re	5.66 Ω
Le	0.84 mH
Qms	9.26
Qes	0.57
Qts	0.54
Vas	5.56 cu.ft., 157.4liters
Vd	330.1 cc
Cms	0.4 mm/N
BL	10.55 T-M
Mms	50 grams
EBP	62
Xmax	6.2 mm
Sd	532.4 cm2
Xlim	12.4 mm

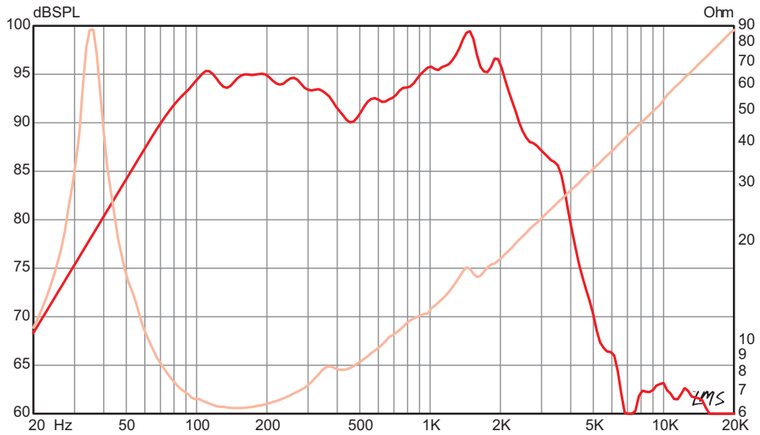
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	22.65–106.19 liters, 0.8–3.75 cu.ft.
Vented	56.63–169.9 liters, 2–6 cu.ft.
Driver Volume Displaced	0.071 cu.ft., 2 liters
Overall Diameter	12.26", 311.4 mm
Baffle Hole Diameter	11.08", 281.4 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25", 6.4 mm
Mounting Holes B.C.D.	11.71", 297.4 mm
Depth	5.33", 135.3 mm
Net Weight	9 lbs , 4.08 kg
Shipping Weight	11 lbs , 4.99 kg

MATERIALS OF CONSTRUCTION

- Copper voice Coil
- Polyimide former
- Ferrite magnet
- Non-vented core
- Pressed Steel basket
- Paper cone
- Cloth cone edge
- Solid composition felt dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

BASS GUITAR

BASSLITE® S2012

A highly efficient, ultra-lightweight 12" neodymium bass guitar speaker that strikes a balance between efficiency and low-end punch. Ideal in vented 1X, 2X, and 4 X12 enclosures.

- **300 W** Program Power
- **12"** Nominal Diameter
- **8 Ω**

PRO AUDIO USAGE		ENCLOSURE	
Midrange		Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔		
Subwoofer			

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	300 W
Nominal Power	150 W
Resonance	48 Hz
Usable Frequency Range	49 Hz – 4.5 kHz
Sensitivity*	99 dB
Magnet Weight	4 oz.
Gap Height	0.28", 7.1 mm
Voice Coil Diameter	2", 51 mm

THIELE & SMALL PARAMETERS

Fs	48 Hz
Re	5.1 Ω
Le	0.43 mH
Qms	5.5
Qes	0.53
Qts	0.48
Vas	3.2 cu.ft., 90.6liters
Vd	270.1 cc
Cms	0.24 mm/N
BL	11.7 T-M
Mms	46 grams
EBP	91
Xmax	5.2 mm
Sd	519.5 cm2
Xlim	9.8 mm

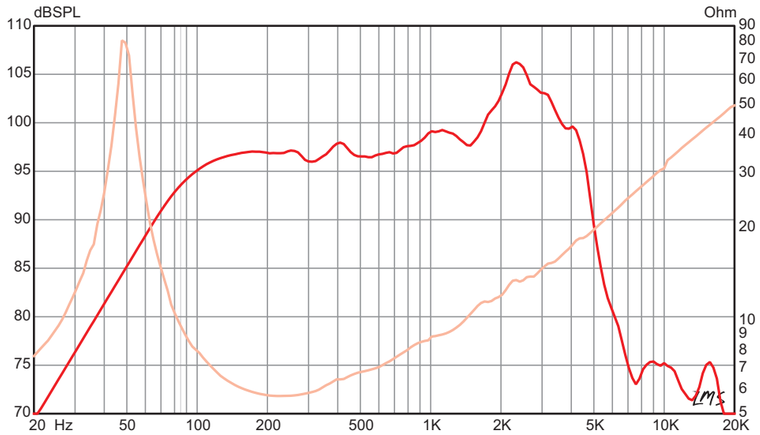
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	31–35 liters, 1.1–1.3 cu.ft.
Vented	42.5–85 liters, 1.5–3 cu.ft.
Driver Volume Displaced	0.059 cu.ft., 1.67 liters
Overall Diameter	12.03", 305.6 mm
Baffle Hole Diameter	11.07", 281.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	N/A
Mounting Holes Diameter	0.25", 6.4 mm
Mounting Holes B.C.D.	11.59", 294.4 mm
Depth	5.1", 129.5 mm
Net Weight	4.1 lbs , 1.86 kg
Shipping Weight	5.8 lbs , 2.63 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Neodymium magnet
- Non-vented core
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition felt dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

BASS GUITAR

LEGEND BP1525

A 15" bass guitar driver that delivers warm, rich tone and deep bass. A big brother to the popular 10" Legend BP102, this 700 watt driver is at home in small sealed enclosures, and also works well in pro audio and home hi-fi applications.

- **700 W** Program Power
- **15"** Nominal Diameter
- **8 Ω**

PRO AUDIO USAGE		ENCLOSURE	
Midrange		Sealed Box	✔
Midbass		Vented Box	✔
Woofer	✔		
Subwoofer	✔		

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	700 W
Nominal Power	350 W
Resonance	32 Hz
Usable Frequency Range	35 Hz – 2.1 kHz
Sensitivity*	96.6 dB
Magnet Weight	56 oz.
Gap Height	0.31", 7.9 mm
Voice Coil Diameter	2.5", 64 mm

THIELE & SMALL PARAMETERS

Fs	32 Hz
Re	6.65 Ω
Le	1.12 mH
Qms	11.21
Qes	0.5
Qts	0.48
Vas	14.02 cu.ft., 397liters
Vd	530.9 cc
Cms	0.39 mm/N
BL	13.07 T-M
Mms	65 grams
EBP	63
Xmax	6.2 mm
Sd	856.3 cm2
Xlim	14.3 mm

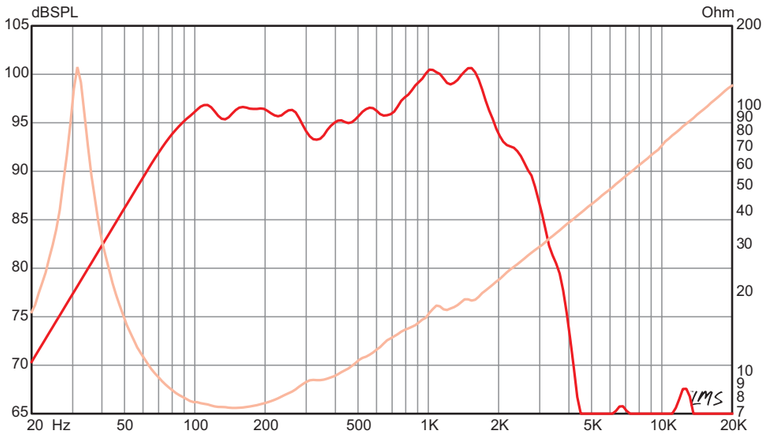
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	42.48–158.58 liters, 1.5–5.6 cu.ft.
Vented	90.61–198.22 liters, 3.2–7 cu.ft.
Driver Volume Displaced	0.128 cu.ft., 3.62 liters
Overall Diameter	15.15", 384.8 mm
Baffle Hole Diameter	13.9", 353.1 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25", 6.4 mm
Mounting Holes B.C.D.	14.56", 369.8 mm
Depth	6.61", 168 mm
Net Weight	12 lbs , 5.44 kg
Shipping Weight	14 lbs , 6.35 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented and extended core
- Pressed Steel basket
- Paper cone
- Cloth cone edge
- Solid composition felt dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

BASS GUITAR

LEGEND CA154

High SPL 4 ohm, 15" woofer recommended for use in bass guitar cabinets or in a PA cabinet.

- **600 W** Program Power
- **15"** Nominal Diameter
- **4 Ω**

PRO AUDIO USAGE		ENCLOSURE	
Midrange		Sealed Box	✔
Midbass	✔	Vented Box	✔
Woofer	✔		
Subwoofer			

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	4 Ω
Power Rating*	
Program Power	600 W
Nominal Power	300 W
Resonance	51 Hz
Usable Frequency Range	45 Hz – 3 kHz
Sensitivity*	96.9 dB
Magnet Weight	56 oz.
Gap Height	0.38", 9.7 mm
Voice Coil Diameter	2.5", 64 mm

THIELE & SMALL PARAMETERS

Fs	51 Hz
Re	2.92 Ω
Le	0.8 mH
Qms	4.94
Qes	0.54
Qts	0.49
Vas	3.82 cu.ft., 108.2liters
Vd	411.9 cc
Cms	0.11 mm/N
BL	12.21 T-M
Mms	86 grams
EBP	94
Xmax	5 mm
Sd	823.7 cm2
Xlim	8 mm

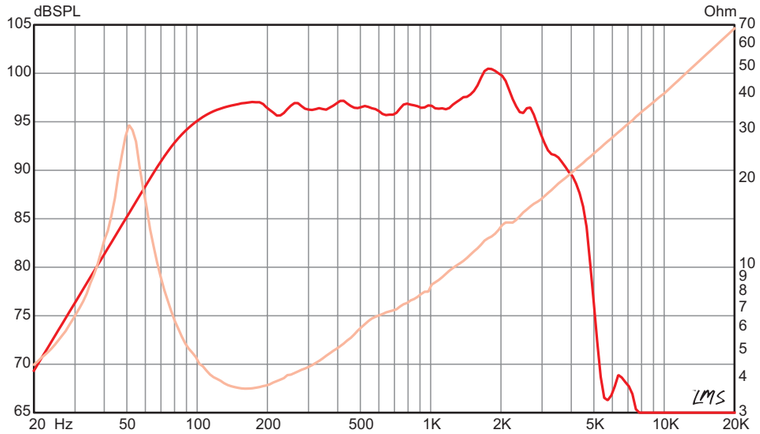
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	40–71 liters, 1.4–2.5 cu.ft.
Vented	45–170 liters, 1.6–6 cu.ft.
Driver Volume Displaced	0.128 cu.ft., 3.62 liters
Overall Diameter	15.15", 384.8 mm
Baffle Hole Diameter	13.87", 352.3 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	N/A
Mounting Holes Diameter	0.25", 6.4 mm
Mounting Holes B.C.D.	14.56", 369.8 mm
Depth	6.25", 158.8 mm
Net Weight	11.9 lbs , 5.4 kg
Shipping Weight	14.1 lbs , 6.4 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented core
- Pressed Steel basket
- Treated paper cone
- Sealed cloth surround
- Treated paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

BASS GUITAR

LEGEND CB158

A proven 15" bass guitar speaker with vintage qualities that packs a lot of sonic punch. Recommended for sealed or vented enclosures.

- **600 W** Program Power
- **15"** Nominal Diameter
- **8 Ω**

ENCLOSURE	
Sealed Box	✔
Vented Box	✔

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 Ω
Power Rating*	
Program Power	600 W
Nominal Power	300 W
Resonance	34 Hz
Usable Frequency Range	47 Hz – 3 kHz
Sensitivity*	98.2 dB
Magnet Weight	80 oz.
Gap Height	0.37", 9.5 mm
Voice Coil Diameter	2.5", 64 mm

THIELE & SMALL PARAMETERS

Fs	34 Hz
Re	6.15 Ω
Le	0.33 mH
Qms	5.9
Qes	0.36
Qts	0.34
Vas	11.87 cu.ft., 336.1liters
Vd	411 cc
Cms	0.31 mm/N
BL	16 T-M
Mms	70 grams
EBP	95
Xmax	4.8 mm
Sd	856.3 cm2
Xlim	9.5 mm

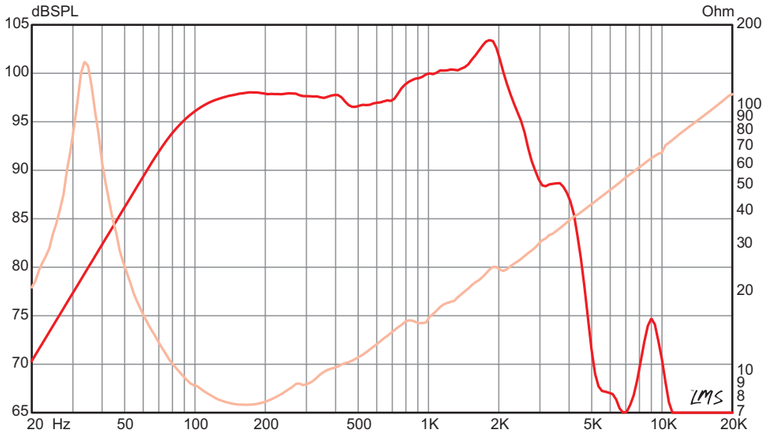
MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	54–65 liters, 1.9–2.3 cu.ft.
Vented	54–159 liters, 1.9–5.6 cu.ft.
Driver Volume Displaced	0.138 cu.ft., 3.92 liters
Overall Diameter	15.22", 386.6 mm
Baffle Hole Diameter	13.99", 355.4 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	14.56", 369.8 mm
Depth	6.5", 165.1 mm
Net Weight	17.3 lbs , 7.85 kg
Shipping Weight	19.4 lbs , 8.8 kg

MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Ferrite magnet
- Vented and extended core
- Die-cast aluminum basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE*



* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

UNDERSTANDING LOUDSPEAKER DATA

The ability to choose the most appropriate loudspeaker for a particular enclosure is directly related to your understanding of the performance data that manufacturers provide with their products. Prior to 1970, there were no easy or affordable methods accepted as standard in the industry for obtaining this data. The recognized methods were expensive and often unrealistic for the thousands of individuals needing loudspeaker performance information.

THIELE-SMALL PARAMETERS

In the early seventies, several technical papers were presented to the AES (Audio Engineering Society) that resulted in the development of what we know today as "Thiele-Small Parameters". These papers were authored by A.N. Thiele, and Richard H. Small.

The Thiele and Small papers concentrated on showing how the following parameters define the relationship between a speaker and a particular enclosure. Eminence recommends that you develop a basic understanding for the meaning of each parameter so that you can make informed decisions when choosing your loudspeakers.

FS This parameter is the free-air resonant frequency of a speaker. Simply stated, it is the point at which the weight of the moving parts of the speaker becomes balanced with the force of the speaker suspension when in motion. It is important to know this information so that you can prevent your enclosure from ringing like a bell when it reaches its resonant frequency. As a general rule of thumb, a lower Fs indicates a woofer that would be better for low-frequency reproduction than a woofer with a higher Fs. However, other parameters affect the ultimate performance of a woofer as well and may make a speaker with a higher Fs a better candidate for your application.

RE This parameter is very simply the DC resistance of the driver in question. In other words, this measurement is made with an ohm meter and is often referred to as the "DCR". This measurement will almost always be less than the impedance listed by the manufacturer. Many consumers get concerned when they see that the Re is less than the published impedance and fear that their amplifier is getting a load that is too heavy. Due to the fact that the inductance of a speaker rises with a rise in frequency, it is not likely that the amplifier will often see the DC resistance as its load.

LE This parameter is the voice coil inductance of the speaker measured in millihenries (mH). The industry standard is to measure inductance at 1,000 Hz. This is a difficult parameter to explain, but basically as frequencies get higher there will be a rise in impedance above the DC resistance rating. This can be attributed to the fact that the voice coil is acting as an inductor. Consequently, the impedance of a speaker is not a fixed resistance, but can be represented as a curve that changes as the input frequency changes. Maximum impedance or Zmax occurs at Fs.

Q PARAMETERS Qts, Qes, and Qtc are all measurements related to the control of a speaker's suspension when it reaches the resonant frequency.

QMS is a measurement of the control coming from the speaker's mechanical suspension system; the surround and spider.

QES is a measurement of the control coming from the speaker's electrical suspension system; the voice coil and magnet.

QTS is called the "Total Q" of the driver and is derived from an equation where Qes is multiplied by Qms and the result is divided by the sum of the same. The result is Qts. As a general guideline, woofers fall into three categories relative to their Qts:

1. Qts of .4 or below indicates a woofer well suited for a vented enclosure.
2. Qts between .4 and .7 indicates a woofer well suited for a sealed enclosure.
3. Qts of .7 or above indicates a woofer well suited for free-air or infinite baffle applications.

These suggestions are simply rules of thumb and do not always apply. For instance, the Eminence Kilomax 18 has a Qts of .56 that would indicate a sealed enclosure, but we know that the Kilomax is one of the most highly regarded woofers in the Professional Audio industry for a ported enclosure.

VAS/CMS Vas (Not to be confused with the recommended enclosure size) represents the equivalent stiffness in an air volume to the force of the compliance (Cms) of the suspension in a particular speaker. It is one of the trickiest parameters to measure. Air changes relative to humidity and temperature. Cms is measured in meters per Newton. It is the force exerted by the mechanical suspension of the speaker. It is simply a measurement of its stiffness.

VD This parameter is the Peak Diaphragm Displacement Volume. It is the Xmax (Voice Coil Overhang) of the driver multiplied by the Sd (Surface area of the cone). Simply stated it is a measurement of how much air the cone will move at full excursion and is usually noted in cc.

BL Expressed in Tesla meters is a measurement of the motor strength of a speaker. This is created by the product of the magnetic field strength times the length of wire in the field. If you were to take a given mass, that when placed on the cone of a speaker would move the cone downward from its home position, then measure the current in amperes required to move the cone back to home position, you can calculate Bl. The formula is Ma in grams divided the current in amperes.

MMS This parameter is the combination of the weight of the cone assembly plus the driver radiation mass load. Confusing…but the weight of the cone assembly is easy. Most manufacturers know that weight when the speaker is designed. It is the sum of the weight of the cone assembly components. The driver radiation mass load is the confusing part. In simple terminology, it is the weight of the air that the cone will have to push. Air certainly has mass and needs to be recognized in these calculations.

RMS This parameter represents the mechanical resistance of a driver's suspension losses. It is a measurement of the absorption qualities of the speaker suspension and is stated in N*sec/m.

EBP This measurement represents Fs / Qe. It is used in many enclosure design formulas to determine if a speaker is more suitable for a closed or vented design. An EBP close to 100 usually indicates a speaker that is best suited for a vented enclosure. On the contrary, an EBP closer to 50 usually indicates a speaker best suited for a closed box design.

XMAX Short for Maximum Linear Excursion. Speaker output becomes non-linear when the voice coil begins to leave the magnetic gap. Although suspensions can create non-linearity in output, the point at which the number of turns in the gap (see Bl) begins to decrease is when distortion starts to increase. Some manufacturers have often used the maximum excursion of the speaker which when exceeded would result in mechanical damage. This parameter is recognized as Xlim. The bottom line is; be sure you are comparing apples to apples. Most manufacturers will specify the way this measurement is obtained. Distortion is typically very audible before Xlim is reached due to the increase in non-linearity in the motor and suspensions.

SD This parameter is the actual surface area of the cone, normally given in square cm.

ZMAX This parameter represents the speaker's impedance at resonance and it is usually many times the DCR of the driver.

ADDITIONAL PERFORMANCE DATA

In addition to Thiele-Small Parameters, loudspeaker manufacturers typically publish additional measurements and performance information. Again, it is wise to become familiar with this data and what it actually means to you.

USABLE FREQUENCY RANGE This data is relatively self-explanatory. It is the frequency range for which Eminence feels the device will prove useful. Each manufacturer uses different techniques for determining "Usable Frequency Range". Most methods are recognized as acceptable in the industry, but can lend different results.

Eminence response curves are measured as follows: All speakers are tested at 1W/1m using a variety of test set-ups for the appropriate impedance. [LMS using 0.25" supplied microphone (software calibrated) mounted 1m from wall/baffle.] [2 ft. X 2 ft. baffle is built into the wall with the speaker mounted flush against a steel ring for minimum diffraction.] [Hafler P1500 Trans-Nova amplifier] [2,700 cu. ft. anechoic chamber with fiberglass on all six surfaces (three with custom-made wedges).]

SPL (Average Sensitivity) This data represents one of the most useful specifications published for any transducer. It is a representation of the output you can expect from a device relative to the input power. This is important because it requires 2 times the power to increase the volume of a speaker 3 dB.

To increase the volume of a 50 watt guitar amplifier 3 dB (an audible, but relatively small amount), it would require a total of 100 watts of power. The same thing could be achieved by replacing the speaker with one that is 3 dB more sensitive (usually a more economical alternative).

Most manufacturers determine sensitivity by putting the speaker in a baffle and measuring the sound pressure level inside an anechoic chamber at a distance of one meter, with 1 watt of input power across the frequency response curve. A loudspeaker measurement software program then would generally calculate the average sound pressure level over the response curve. This is a good method and usually very accurate. The problem is that one manufacturer may place the microphone one meter from the dust cap of the speaker and gain a distinct advantage over the manufacturer who placed the microphone one meter from the baffle board. Again, be sure you understand how this specification was derived.

The Eminence method represents the average output across the usable frequency range when applying 1W/1m into the nominal impedance. i.e: 2.83V/8Ω, 4V/16Ω.

POWER RATING This specification is very important to transducer selection. Obviously, you need to choose a loudspeaker that is capable of handling the input power you are going to provide. By the same token, you can destroy a loudspeaker by using too little power. Generally speaking, the number one contributor to a transducer's ability to handle power is its ability to release thermal energy. Those loudspeaker characteristics are affected by several design choices, but most notably voice coil size, magnet size, venting, and the adhesives used in voice coil construction.

Larger coil and magnet sizes provide more area for heat to dissipate, while venting allows thermal energy to escape and cooler air to enter the motor structure. Equally important is the ability of the voice coil to handle thermal energy. Eminence is well known for the use of proprietary adhesives and voice coil components that maximize the coil's ability to handle extreme temperatures.

Mechanical factors must also be considered when determining power handling. A transducer might be able to handle 1,000 watts from a thermal perspective, but would fail long before that level was reached from a mechanical issue such as the coil hitting the back plate, the coil coming out of the gap, the cone buckling from too much outward movement, or the spider bottoming on the top plate. Be sure to consider the suggested usable frequency range and the Xlim parameter in conjunction with the power rating and enclosure design to avoid such failures.

The Eminence power rating is derived using an EIA 426A noise source and test standard. All tests are conducted for 8 hours in a free-air, non-temperature controlled environment. The Eminence Program Power rating is double that of our standard Watts rating.

MISSION STATEMENT

Eminence is dedicated to providing the best Quality, Value and Service to meet our customers' needs.

CORE VALUES

Mark 10:43 – 45

"…whoever wants to become great among you must be your servant…For even the Son of Man did not come to be served, but to serve, and to give his life as a ransom for many."

At Eminence, our business principles are rooted in our personal faith and beliefs. We strive to show humility, respect and fairness toward all. We are grateful for our successes and learn from our failures. We are called to use our gifts and talents to serve others. It is through this service that we are truly blessed each and every day.

FOOTNOTES

IMPEDANCE

Please consult www.eminence.com for specifications of models with alternative impedances.

POWER RATING

Multiple units exceed published ratings evaluated under EIA 426A specification while tested in a free-air, non-temperature-controlled environment. Multiple compression drivers exceeded published ratings evaluated under EIA-426A or AES specification while mounted on Eminence's H290, H290S, or H2EA horn in a non-temperature-controlled environment.

SENSITIVITY

The average output across the usable frequency range when applying 1W/1m into the nominal impedance. i.e: 2.83V/8Ω, 4V/16Ω. Eminence response curves are measured under the following conditions: All speakers are tested at 1W/1m using a variety of test set-ups for the appropriate impedance | LMS using 0.25" supplied microphone (software calibrated) mounted 1m from wall/baffle | 2 ft. x 2 ft. baffle is built into the wall with the speaker mounted flush against a steel ring for minimum diffraction | Yamaha P3500S amplifier | 2700 cu. ft. chamber with fiberglass on all six surfaces (three with custom-made wedges). Compression drivers were tested using a 2ft x 2ft baffle built into the wall with horn front mounted.

COAXIALS

BETA 8CX, 10CX, and 12CX are coaxial speakers with tweeter sold separately. Published usable frequency response contingent upon use of ASD:1001 HF Driver.

Prices, product cosmetics and specifications are subject to change without notice.

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