



2012

PRO AUDIO • HF DEVICES
COMPONENTS • GUITAR • BASS

Welcome to Eminence.



We are proud of our long history of manufacturing loudspeakers here in Eminence, Kentucky. Our mission is to provide the best quality, value and service to meet our customer's needs. If you were to tour our facility, you would see our people, equipment and processes are all working to fulfill on that promise. We thank you for helping to keep us doing what we love, and for keeping the American dream alive!

For a complete list of Eminence distributors and to access our US dealer finder, please **visit [eminence.com](http://www.eminence.com)**.

PRO AUDIO

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Located in downtown Eminence, Kentucky,

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.

Eminence is an ISO 9001-2008 certified company, ensuring all products and services consistently conform to our highest quality standards.

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 fused deposition modeling rapid prototype machine, 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 administered here. 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 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, and dual 2 layer coils. Winding lengths vary from .210" (5.3 mm) to 1.25" (31.75 mm). Standard impedances range from less than 1 ohm all the way to 32 ohms.

5 High Frequency Department

Eminence manufactures HF products for both our branded and OEM product lines. Products include several 1" throat devices, some incorporating neodymium motor structures, and others with standard ferrite motor structures. Eminence also manufactures a larger 2" throat HF device.

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.

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

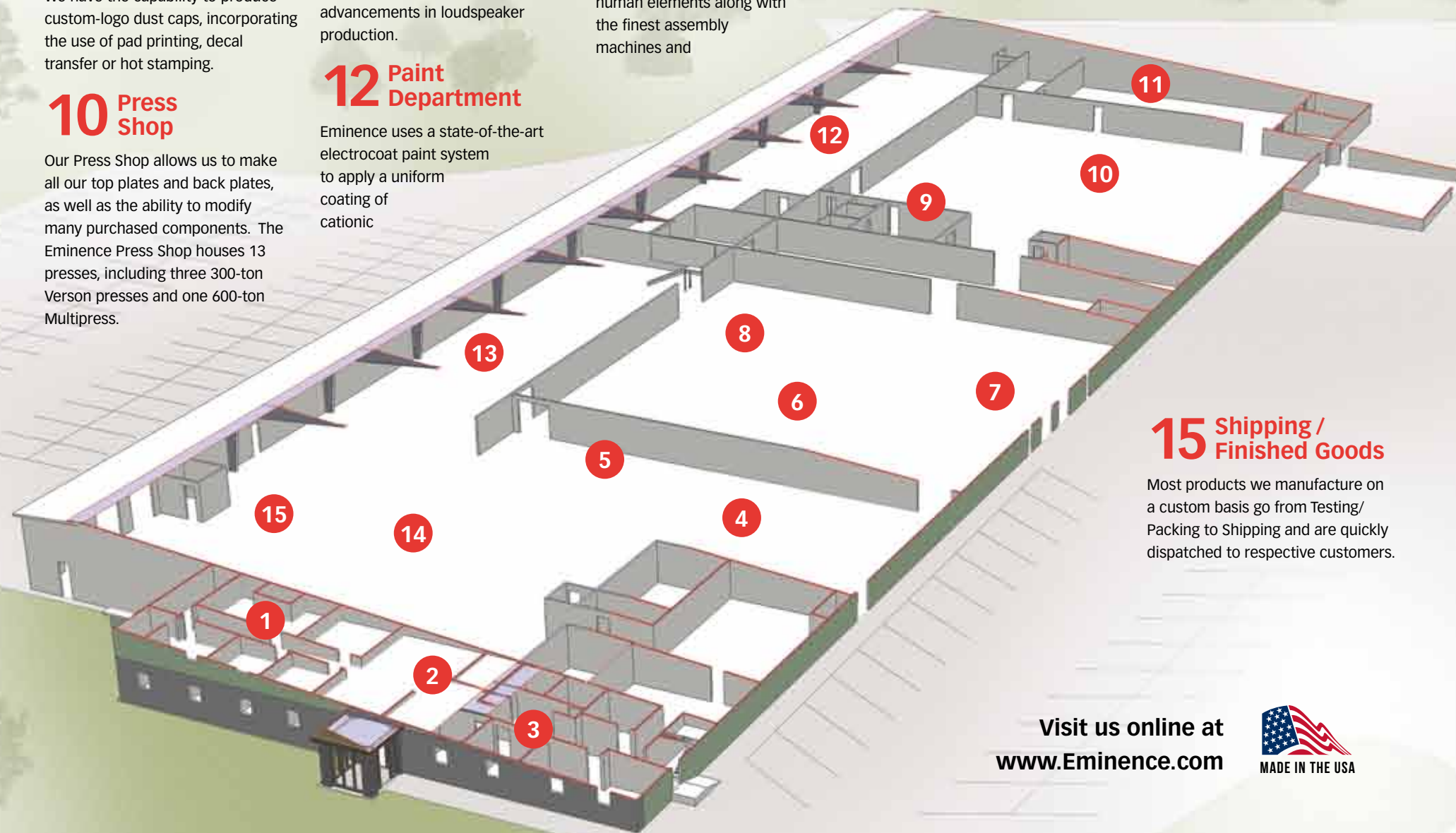
tooling available in this industry. There is no substitute for conscientious assembly technicians involved in the manufacturing of our products.

14 Testing/Packing Department

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.



Visit us online at
www.Eminence.com



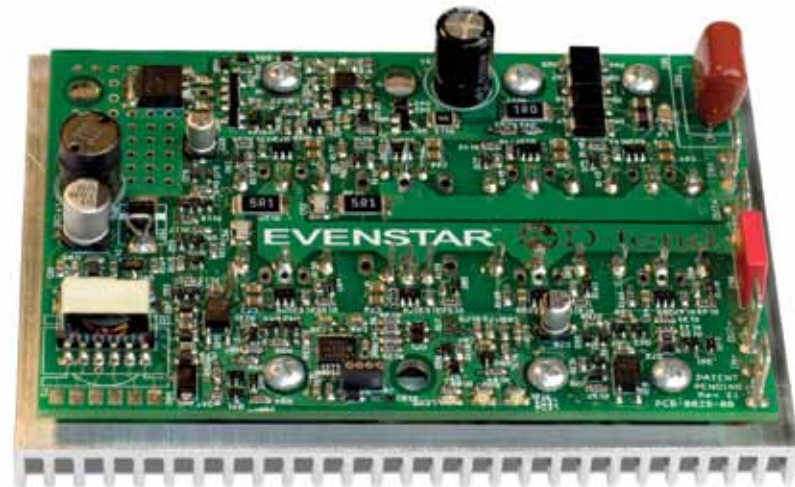


Introducing the industry's **first** all-digital, programmable loudspeaker protection and attenuation circuit.

Designed to solve the age-old problems associated with protecting loudspeakers from excessive power conditions, D-fend™ loudspeaker protection technology has eliminated the headaches for speaker engineers – no more hassling with polyswitches, blown lamp filaments, lossy resistors, or slow relays. Incorporating such features as digital signal processing with on-board digital filtering, customizable microprocessor and MOSFET construction, the D-fend™ protection circuit enables a designer to use this technology prior to passive filtration and allows different sensitivity settings in specific frequency bands, such as woofer over-excursion bands or high frequency peak damage regions.

A patented technology of Evenstar™, D-fend™ has achieved unparalleled performance in speaker protection with the implementation of the unique features listed below.

To license this technology for Professional Audio and Musical Instrument applications worldwide, please contact us at dfend@eminence.com.



See five key demonstrations on our YouTube channel: www.youtube.com/user/eminencespeaker

DIGITAL SIGNAL PROCESSING

With on-board digital filtering, D-fend™ provides multiple frequency dependent thresholds and independent attack/release timing parameters. This enables the designer to use D-fend™ technology prior to passive filtration, and allows increased sensitivity in specific frequency bands such as woofer over-excursion bands or high frequency peak damage regions.

DIGITAL ATTENUATION

Significantly reduced heat, no bulbs, no light output.

FULLY PROGRAMMABLE

On-board microprocessor allows user customizable attack, release, and threshold to maximize loudspeaker performance and minimize SKUs.

HIGH POWER

Capable of protecting high power woofers and sub-woofers from over power conditions as well as mechanical damage thresholds, an achievement unseen within the audio industry.

VERSATILE

MOSFET construction allows easy device voltage and current selection, allowing operation with woofers, tweeters, or midrange devices. Under certain circumstances, D-fend™ may also be utilized as a continuous attenuator.

CUSTOMIZABLE

Monitors both voltage and current under algorithmic control, allowing a diversity of customizable implementations such as adaptive thresholds and attack times, temperature dependent protection, and real-time impedance and power delivery measurements.

NO AUX POWER

Operates from a standard speaker-level signal, does not require auxiliary power.

COST

Affordable solution allowing various implementations for cost-sensitive applications.

MUSICAL

Attenuation slewing algorithms provide lamp-like musicality without the nuisance of light and flammability concerns. Think of it as a high-power, speaker-level compressor/limiter allowing the designer to guarantee unmatched levels of protection for their unpowered loudspeaker solutions.



NEW! HIGH POWER IMPERO SERIES

The Impero series plays extremely loud and low in compact vented designs.

IF YOU'VE HEARD LIVE AUDIO, YOU'VE HEARD OUR PROFESSIONAL SERIES.

No other name in loudspeakers has been so widely depended upon for performance and reliability.

From the pump-it-up sounds of a sports arena, to the latest hits played live by the greatest artists, even the Star-Bangled Banner proudly booming onto the deck of an aircraft carrier. You'll hear them in the local VFW Hall and Moose Lodge. And being reverend or rockin' in places of worship. No wonder that for over 40 years, Eminence Professional series loudspeakers have been the brand of choice in audio systems throughout the world.

There are 26 unique models in our Professional series so it's easy to find yours. From heavy-duty subwoofers, low distortion woofers, and super high-power woofers to lightweight neodymium transducers in truncated frames for line arrays. Each is designed with your specific needs in mind.

The signature of each Eminence Professional model is its cast aluminum Eminence chassis. Lightweight and strong, aluminum keeps the magnetic field inside the gap. That means the motor strength is higher and the stray magnetic field lower. We coat the chassis 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.

Every speaker comes standard with Made in the USA pride, and is backed by a Seven Year Warranty against manufacturer's defects*. There are over 1,200 USA dealers and distributors worldwide.

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

MADE BY HAND IN THE USA.



VISIT **EMINENCE.COM** TO FIND A DEALER NEAR YOU.

PROFESSIONAL SERIES

COMPATIBILITY	CLOSED BOX	REFLEX BOX	SCOOP LOADING	HORN LOADING	SUBWOOFER USAGE	WOOFER USAGE	MID BASS USAGE	MIDRANGE USAGE
DELTA PRO 8A	●	●		●			●	●
DELTA PRO 8B	●	●		●			●	●
KAPPA PRO 10A	●	●					●	●
DEFINIMAX 4012HO	●	●	●	●	●	●	●	
DELTA PRO 12A	●	●		●		●	●	●
IMPERO 12A		●	●	●	●	●	●	●
KAPPA PRO 12A		●	●	●		●	●	
LAB 12	●	●		●	●			
DEFINIMAX 4015LF	●	●	●	●	●	●		
DELTA PRO 15A	●	●		●		●	●	
IMPERO 15A		●	●	●	●	●	●	
IMPERO 15C		●	●	●	●	●	●	
KAPPA PRO 15A		●		●		●	●	
KAPPA PRO 15LF		●	●	●	●	●		
KILOMAX PRO 15A		●	●	●	●	●		
LAB 15	●	●		●	●			
OMEGA PRO 15A		●	●	●		●	●	
DEFINIMAX 4018LF		●	●	●	●	●		
DELTA PRO18A		●	●	●	●	●		
DELTA PRO18C		●	●	●	●	●		
IMPERO 18A		●	●	●	●	●		
IMPERO 18C		●	●	●	●	●		
KILOMAX PRO 18A	●	●			●	●		
OMEGA PRO 18A		●	●	●	●	●		
OMEGA PRO 18C		●	●	●	●	●		
SIGMA PRO 18A		●	●	●	●	●		

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.

PROFESSIONAL SERIES



DELTA PRO-8A

High Sensitivity Midrange Driver for pro audio or MI. Truncated Cast AL Heat sink style basket is great for stacking in a line array.

SPECIFICATION

Nominal Basket Diameter	8", 203 mm
Nominal Impedance*	8 or 16 ohm
Power Rating**	
Watts	225 W
Music Program	450 W
Resonance	69 Hz
Usable Frequency Range	100 Hz - 3 kHz
Sensitivity***	97.8 dB
Magnet Weight	59 oz.
Gap Height	0.31", 7.95 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented and extended core
Basket Material	Die-cast aluminum basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 56



KAPPA PRO-10A

Recommended for pro audio in a sealed midrange, vented mid-bass, and bass enclosure.

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	500 W
Music Program	1000 W
Resonance	46 Hz
Usable Frequency Range	102 Hz - 2 kHz
Sensitivity***	97 dB
Magnet Weight	80 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	3", 76.2 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented core
Basket Material	Die-cast aluminum basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 56



DEFINIMAX™ 4012HO

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

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	600 W
Music Program	1200 W
Resonance	46 Hz
Usable Frequency Range	49 Hz - 2.5 kHz
Sensitivity***	94 dB
Magnet Weight	109 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	4", 101.6 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Undercut with copper shorting ring and core periphery ventilation
Basket Material	Die-cast aluminum basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Pop-on dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 56

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.



DELTA PRO-12A

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

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	400 W
Music Program	800 W
Resonance	51 Hz
Usable Frequency Range	52 Hz - 4.5 kHz
Sensitivity***	99.2 dB
Magnet Weight	80 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	2.50", 63.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Aluminum voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented and extended core
Basket Material	Die-cast aluminum basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

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.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	1100 W
Music Program	2200 W
Resonance	42.75 Hz
Usable Frequency Range	56 Hz - 3 kHz
Sensitivity***	93 dB
Magnet Weight	109 oz.
Gap Height	0.50", 12.7 mm
Voice Coil Diameter	4", 101.6 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Fiberglass
Magnet Composition	Ferrite magnet
Core Details	Bumped vented extended core
Basket Material	Die-cast aluminum basket
Cone Composition	Water resistant treated paper cones
Cone Edge Composition	Treated cloth cone edge
Dust Cap Composition	Water resistant treated paper dust cap

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.



KAPPA PRO-12A

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

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	500 W
Music Program	1000 W
Resonance	37 Hz
Usable Frequency Range	57 Hz - 2.8 kHz
Sensitivity***	97.1 dB
Magnet Weight	80 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	3", 76.2 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented core
Basket Material	Die-cast aluminum basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap



LAB12

Recommended for vented, sealed, and horn loaded, pro audio enclosures as a subwoofer. Also great as an automotive sub.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	6 ohm
Power Rating**	
Watts	400 W
Music Program	800 W
Resonance	22 Hz
Usable Frequency Range	25 Hz - 0.12 kHz
Sensitivity***	89.2 dB
Magnet Weight	160 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	2.50", 63.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Double stacked 80 oz. ferrite magnets
Core Details	Vented and extended core
Basket Material	12-spoke die-cast aluminum basket
Cone Composition	Kevlar-reinforced paper cone
Cone Edge Composition	Foam cone edge
Dust Cap Composition	Dual inverted dust caps



DEFINIMAX™ 4015LF

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

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	700 W
Music Program	1400 W
Resonance	42 Hz
Usable Frequency Range	35 Hz - 1.2 kHz
Sensitivity***	96 dB
Magnet Weight	109 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	4", 101.6 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Undercut with copper shorting ring and core periphery ventilation
Basket Material	Die-cast aluminum basket
Cone Composition	Acrylic wetlook Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Acrylic wetlook paper dust cap

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.



DELTA PRO-15A

Recommended for pro audio in both sealed and vented enclosures. Ideal for full-range, mid/hi, and monitor wedges.

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	400 W
Music Program	800 W
Resonance	42 Hz
Usable Frequency Range	54 Hz - 4.2 kHz
Sensitivity***	101.6 dB
Magnet Weight	80 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	2.50", 63.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Aluminum voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented and extended core
Basket Material	Die-cast aluminum basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap



IMPERO™ 15A

High power driver 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.

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 or 4 ohm
Power Rating**	
Watts	1200 W
Music Program	2400 W
Resonance	42.97 Hz
Usable Frequency Range	46 Hz - 2 kHz
Sensitivity***	95.6 dB
Magnet Weight	109 oz.
Gap Height	0.50", 12.7 mm
Voice Coil Diameter	4", 101.6 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Fiberglass former
Magnet Composition	Ferrite magnet
Core Details	Bumped vented extended core
Basket Material	Die-cast aluminum basket
Cone Composition	Water resistant treated paper cones
Cone Edge Composition	Treated cloth cone edge
Dust Cap Composition	Water resistant treated paper dust cap



KAPPA PRO-15A

Recommended for pro audio in a vented mid-bass or bass enclosures. Also suitable for bass guitar.

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	500 W
Music Program	1000 W
Resonance	47 Hz
Usable Frequency Range	46 Hz - 4 kHz
Sensitivity***	101 dB
Magnet Weight	80 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	3", 76.2 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Aluminum voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented core
Basket Material	Die-cast aluminum basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap



KAPPA PRO-15LF-2

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

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	600 W
Music Program	1200 W
Resonance	35 Hz
Usable Frequency Range	38 Hz - 1.8 kHz
Sensitivity***	97.8 dB
Magnet Weight	120 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	3", 76.2 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented and extended core
Basket Material	Die-cast aluminum basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap



KILOMAX® PRO 15A

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

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	1250 W
Music Program	2500 W
Resonance	41 Hz
Usable Frequency Range	44 Hz - 0.8 kHz
Sensitivity***	95.5 dB
Magnet Weight	109 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	4", 101.6 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Extended core with core periphery ventilation
Basket Material	Die-cast aluminum basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Porous cloth top spider/ heatsink



LAB15

Subwoofer suited for small vented boxes. Also suitable for horn loading.

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	6 ohm
Power Rating**	
Watts	600 W
Music Program	1200 W
Resonance	28 Hz
Usable Frequency Range	20 Hz - 0.12 kHz
Sensitivity***	88.5 dB
Magnet Weight	160 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	3", 76.2 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Aluminum former
Magnet Composition	Double stacked 80 oz. ferrite magnets
Core Details	Vented and extended core
Basket Material	Die-cast aluminum basket
Cone Composition	Kevlar-reinforced paper cone
Cone Edge Composition	Foam cone edge
Dust Cap Composition	Acrylic wet-look solid composition paper



OMEGA PRO-15A

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

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	800 W
Music Program	1600 W
Resonance	33 Hz
Usable Frequency Range	51 Hz - 1.7 kHz
Sensitivity***	97.3 dB
Magnet Weight	109 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	4", 101.6 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented and extended core
Basket Material	Die-cast aluminum basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.



DEFINIMAX™ 4018LF

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

SPECIFICATION

Nominal Basket Diameter	18", 457.2 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	800 W
Music Program	1600 W
Resonance	32 Hz
Usable Frequency Range	36 Hz - 0.2 kHz
Sensitivity***	95 dB
Magnet Weight	109 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	4", 101.6 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Undercut with copper shorting ring and core periphery ventilation
Basket Material	Die-cast aluminum basket
Cone Composition	Acrylic wet-look paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Acrylic wet-look paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 58



DELTA PRO-18A

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

SPECIFICATION

Nominal Basket Diameter	18", 457 mm
Nominal Impedance*	8 or 4 ohm
Power Rating**	
Watts	500 W
Music Program	1000 W
Resonance	28 Hz
Usable Frequency Range	37 Hz - 0.25 kHz
Sensitivity***	96 dB
Magnet Weight	67 oz.
Gap Height	0.38", 9.53 mm
Voice Coil Diameter	2.50", 63.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented and extended core
Basket Material	Die-cast aluminum basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 58



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.

SPECIFICATION

Nominal Basket Diameter	18", 457.2 mm
Nominal Impedance*	8 or 4 ohm
Power Rating**	
Watts	1200 W
Music Program	2400 W
Resonance	33.17 Hz
Usable Frequency Range	39 Hz - 820 Hz
Sensitivity***	95.9 dB
Magnet Weight	109 oz.
Gap Height	0.50", 12.7 mm
Voice Coil Diameter	4", 101.6 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Fiberglass
Magnet Composition	Ferrite magnet
Core Details	Bumped vented extended core
Basket Material	Die-cast aluminum basket
Cone Composition	Water resistant treated paper cones
Cone Edge Composition	Treated cloth cone edge
Dust Cap Composition	Water resistant treated paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 58



KILOMAX® PRO 18A

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

SPECIFICATION

Nominal Basket Diameter	18", 457.2 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	1250 W
Music Program	2500 W
Resonance	32 Hz
Usable Frequency Range	33 Hz - 0.3 kHz
Sensitivity***	95.8 dB
Magnet Weight	109 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	4", 101.6 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Kapton former
Magnet Composition	Ferrite magnet
Core Details	Extended core with core periphery ventilation
Basket Material	Die-cast aluminum basket
Cone Composition	Treated paper - Kevlar
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Porous cloth top spider/ heatsink

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 58



OMEGA PRO-18A

Recommended for pro audio as a woofer in vented enclosures. Also ideal for horn loading and scoops.

SPECIFICATION

Nominal Basket Diameter	18", 457.2 mm
Nominal Impedance*	8 or 4 ohm
Power Rating**	
Watts	800 W
Music Program	1600 W
Resonance	25 Hz
Usable Frequency Range	40 Hz - 0.8 kHz
Sensitivity***	97 dB
Magnet Weight	109 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	4", 101.6 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented and extended core
Basket Material	Die-cast aluminum basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 58



SIGMA PRO 18A-2

Recommended for pro audio as a woofer in vented enclosures.

SPECIFICATION

Nominal Basket Diameter	18", 457.2 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	650 W
Music Program	1300 W
Resonance	28 Hz
Usable Frequency Range	41 Hz - 2.4 kHz
Sensitivity***	99 dB
Magnet Weight	120 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	3", 76.2 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented and extended core
Basket Material	Die-cast aluminum basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 58

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.

Back in the 50s and 60s, Alnico was the most common magnet used in loudspeakers. However, a shortage in materials and increased costs for Alnico during that time precipitated a shift to the widespread use of the ceramic magnets most of us are familiar with today.

Just before the turn of this century, speaker manufacturers started seriously evaluating the potential benefits of using neodymium magnets in loudspeakers. Although neodymium magnets were expensive, they allowed loudspeaker motors to be as little as half the weight of comparable ceramic magnet motors. Prices of neodymium started coming down and interest in lighter weight speakers grew, as did neodymium speaker options.

There are 10 unique models available in our Neodymium Professional series. Each was designed with a specific application in mind. From heavy-duty subwoofers, midranges, and transducers in truncated frames for line

arrays, there is an Eminence Neodymium Professional model for your application. Each product includes Made in the USA pride, along with a Seven Year Warranty against manufacturer’s defects*. With over 1,200 USA dealers and distributors worldwide, you can easily find them in a store near you.

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



	CLOSED BOX	REFLEX BOX	HORN LOADING	SUBWOOFER USAGE	WOOFER USAGE	MID BASS USAGE	MIDRANGE USAGE
ALPHALITE 6A	●	●	●		●	●	●
ALPHALITE 6A-CBMR			●				●
LA8-CNMB	●	●	●		●	●	●
DELTALITE II 2510	●	●	●		●	●	
DELTALITE II 2512	●	●	●		●	●	
KAPPALITE 3012HO	●	●	●		●	●	●
KAPPALITE 3012LF	●	●	●	●	●		
DELTALITE II 2515	●	●			●	●	
KAPPALITE 3015		●	●		●	●	
KAPPALITE 3015LF		●	●	●	●		



ALPHALITE™ 6A

Lightweight pro audio mid/bass driver. For sealed, vented, or infinite baffle applications.

SPECIFICATION

Nominal Basket Diameter	6.50", 165.1 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	100 W
Music Program	200 W
Resonance	125.55 Hz
Usable Frequency Range	74 Hz - 5.5 kHz
Sensitivity***	94 dB
Magnet Weight	3.50 oz.
Gap Height	0.25", 6.35 mm
Voice Coil Diameter	1.50", 38.1 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Round Copper voice coil
Coil Former	Kapton former
Magnet Composition	Neodymium magnet
Core Details	Vented and Extended core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Treated paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 59



ALPHALITE™ 6A-CBMR

Lightweight neodymium 6.5” closed back midrange for pro audio or MI use. Great in bass guitar rigs.

SPECIFICATION

Nominal Basket Diameter	6.50", 165 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	100 W
Music Program	200 W
Resonance	500.52 Hz
Usable Frequency Range	500 Hz - 4.3 kHz
Sensitivity***	99.8 dB
Magnet Weight	4 oz.
Gap Height	0.25", 6.35 mm
Voice Coil Diameter	1.50", 38.1 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Kapton former
Magnet Composition	Neodymium magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Full Paper cone
Dust Cap Composition	Treated paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 59



LA8-CNMB

Mid/bass driver for pro audio or MI. Truncated cast aluminum basket is great for stacking in a line array and neodymium motor greatly reduces weight.

SPECIFICATION

Nominal Basket Diameter	8", 203 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	225 W
Music Program	450 W
Resonance	82 Hz
Usable Frequency Range	82 Hz - 3.2 kHz
Sensitivity***	95.5 dB
Magnet Weight	7 oz.
Gap Height	0.28", 6.99 mm
Voice Coil Diameter	2.50", 63.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Edge wound copper voice coil
Coil Former	Polyimide former
Magnet Composition	Neodymium magnet
Core Details	Vented core

Basket Material	Die-cast aluminum basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 59



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.

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	250 W
Music Program	500 W
Resonance	53 Hz
Usable Frequency Range	60 Hz - 4 kHz
Sensitivity***	97.3 dB
Magnet Weight	7 oz.
Gap Height	0.27", 7 mm
Voice Coil Diameter	2.50", 63.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Aluminum voice coil
Coil Former	Polyimide former
Magnet Composition	Neodymium magnet
Core Details	Vented core

Basket Material	Die-cast aluminum basket/ heatsink
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 59



DELTALITE® II 2512

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

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	250 W
Music Program	500 W
Resonance	37 Hz
Usable Frequency Range	48 Hz - 4 kHz
Sensitivity***	99.9 dB
Magnet Weight	7 oz.
Gap Height	0.27", 7 mm
Voice Coil Diameter	2.50", 63.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Aluminum voice coil
Coil Former	Polyimide former
Magnet Composition	Neodymium magnet
Core Details	Vented core

Basket Material	Die-cast aluminum basket/ heatsink
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 59

KAPPALITE™ 3012H0

Recommended for vented pro audio enclosures for full-range or as mids.

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	400 W
Music Program	800 W
Resonance	52 Hz
Usable Frequency Range	51 Hz - 3.5 kHz
Sensitivity***	100.5 dB
Magnet Weight	11 oz.
Gap Height	0.36", 9.27 mm
Voice Coil Diameter	3", 76.2 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Aluminum voice coil
Coil Former	Kapton
Magnet Composition	Neodymium magnet
Core Details	Vented core

Basket Material	Die-cast aluminum basket
Cone Composition	Treated paper cone
Cone Edge Composition	Sealed cloth surround
Dust Cap Composition	Treated paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 59

KAPPALITE™ 3012LF

Recommended for pro audio and bass in vented enclosures.

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	450 W
Music Program	900 W
Resonance	37 Hz
Usable Frequency Range	46 Hz - 2 kHz
Sensitivity***	95.5 dB
Magnet Weight	11 oz.
Gap Height	0.36", 9.27 mm
Voice Coil Diameter	3", 76.2 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper Voice coil
Coil Former	Kapton
Magnet Composition	Neodymium magnet
Core Details	Vented core

Basket Material	Die-cast aluminum basket
Cone Composition	Treated paper cone
Cone Edge Composition	Sealed cloth edge
Dust Cap Composition	Treated paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 59

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.

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	300 W
Music Program	600 W
Resonance	42 Hz
Usable Frequency Range	54 Hz - 3.7 kHz
Sensitivity***	99.2 dB
Magnet Weight	7 oz.
Gap Height	0.27", 7 mm
Voice Coil Diameter	2.50", 63.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Aluminum voice coil
Coil Former	Polyimide former
Magnet Composition	Neodymium magnet
Core Details	Vented core

Basket Material	Die-cast aluminum basket/ heatsink
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 60

KAPPALITE™ 3015

Recommended for vented pro audio enclosures for full-range or as mids.

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	450 W
Music Program	900 W
Resonance	45 Hz
Usable Frequency Range	40 Hz - 4 kHz
Sensitivity***	100.8 dB
Magnet Weight	11 oz.
Gap Height	0.36", 9.27 mm
Voice Coil Diameter	3", 76.2 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Neodymium magnet
Core Details	Vented core

Basket Material	Die-cast aluminum basket/ heatsink
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 60

KAPPALITE™ 3015LF

Recommended for pro audio and bass in a vented enclosure.

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	450 W
Music Program	900 W
Resonance	44 Hz
Usable Frequency Range	40 Hz - 1.5 kHz
Sensitivity***	98.4 dB
Magnet Weight	11 oz.
Gap Height	0.36", 9.27 mm
Voice Coil Diameter	3", 76.2 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Kapton
Magnet Composition	Neodymium magnet
Core Details	Vented core

Basket Material	Die-cast aluminum basket/heatsink
Cone Composition	Treated paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Treated paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 60

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.

The Eminence mission statement is “*Quality, Value, and Service to Meet Our Customer’s Needs.*” Nowhere is that creed more evident than in our

AMERICAN STANDARD SERIES

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.

There are 24 unique models available in our American Standard series so it’s easy to find yours. Each is designed for versatility in a range of applications. And like our Professional series, every speaker comes standard with Made in the USA pride, and is backed by a Seven Year Warranty against manufacturer’s defects*.



Eminence offers 6.5-15” models with applications ranging from standard sub-woofers, 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.



VISIT **EMINENCE.COM** TO FIND A DEALER NEAR YOU.

	CLOSED BOX	REFLEX BOX	HORN LOADING	SUBWOOFER USAGE	WOOFER USAGE	MID BASS USAGE	MIDRANGE USAGE
ALPHA 6A	●	●	●		●	●	●
ALPHA 6C	●	●	●		●	●	●
LA6 CBMR			●				●
ALPHA 8A	●	●			●	●	●
ALPHA 8MRA			●				●
BETA 8A	●	●	●		●	●	●
BETA 8CX	●	●			●	●	●
ALPHA 10A	●	●	●		●	●	●
BETA 10A	●	●	●		●	●	
BETA 10CX	●	●			●	●	●
DELTA 10A		●	●		●	●	●
DELTA 10B		●	●		●	●	●
ALPHA 12A	●	●			●	●	●
BETA 12A	●	●	●		●	●	
BETA 12CX	●	●			●	●	●
BETA 12LTA	●	●			●	●	●
DELTA 12A		●			●	●	●
DELTA 12B		●			●	●	●
DELTA 12LFA	●	●	●	●	●	●	
DELTA 12LFA	●	●	●	●	●		
KAPPA 12A		●	●		●	●	●
ALPHA 15A	●	●			●	●	●
BETA 15A	●	●			●	●	
DELTA 15A	●	●			●	●	
DELTA 15B	●	●			●	●	
DELTA 15LFA	●	●		●	●		
GAMMA 15A		●	●		●	●	
KAPPA 15A		●	●		●	●	
KAPPA 15C		●	●		●	●	
KAPPA 15LFA		●	●	●	●		

AMERICAN STANDARD SERIES



ALPHA-6A

Recommended for pro audio midrange applications in a sealed cabinet, or as a mid-bass in a vented satellite enclosure.

SPECIFICATION

Nominal Basket Diameter	6.50", 165 mm
Nominal Impedance*	8 or 4 ohm
Power Rating**	
Watts	100 W
Music Program	200 W
Resonance	118 Hz
Usable Frequency Range	85 Hz - 6 kHz
Sensitivity***	93.6 dB
Magnet Weight	20 oz.
Gap Height	0.25", 6.35 mm
Voice Coil Diameter	1.50", 38.1 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented and extended core
Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 60



LA6-CBMR

Recommended for pro audio midrange applications from 500Hz-3kHz. Features a closed truncated basket for close spacing in line-arrays.

SPECIFICATION

Nominal Basket Diameter	6.50", 165 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	150 W
Music Program	300 W
Resonance	460 Hz
Usable Frequency Range	500 Hz - 5.4 kHz
Sensitivity***	97.8 dB
Magnet Weight	38 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	1.50", 38.1 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented and extended core
Basket Material	Pressed steel basket with truncated sides
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 60



ALPHA-8A

Recommended for pro audio midrange applications in a sealed cabinet, or as a mid-bass in a vented satellite enclosure.

SPECIFICATION

Nominal Basket Diameter	8", 203.2 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	125 W
Music Program	250 W
Resonance	73 Hz
Usable Frequency Range	58 Hz - 5 kHz
Sensitivity***	94 dB
Magnet Weight	20 oz.
Gap Height	0.25", 6.35 mm
Voice Coil Diameter	1.50", 38.1 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented core
Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 60

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.

AMERICAN STANDARD SERIES



ALPHA-8MRA

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

SPECIFICATION

Nominal Basket Diameter	8", 203.2 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	125 W
Music Program	250 W
Resonance	514 Hz
Usable Frequency Range	400 Hz - 4.8 kHz
Sensitivity***	100.9 dB
Magnet Weight	20 oz.
Gap Height	0.25", 6.35 mm
Voice Coil Diameter	1.50", 38.1 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented core

Basket Material	Pressed steel basket with closed back
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 61



BETA-8A

Recommended for pro audio mid-bass applications or as a woofer in vented enclosures. Also suitable as a mid-bass speaker in sealed enclosures.

SPECIFICATION

Nominal Basket Diameter	8", 203.2 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	225 W
Music Program	450 W
Resonance	65 Hz
Usable Frequency Range	78 Hz - 4.5 kHz
Sensitivity***	95.1 dB
Magnet Weight	34 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Aluminum voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 61

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.



BETA-8CX

Recommended for pro audio midrange reproduction in sealed enclosures. Also suitable for mid-bass or floor monitor applications in vented 2-way cabinets.

SPECIFICATION

Nominal Basket Diameter	8", 203.2 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	250 W
Music Program	500 W
Resonance	63 Hz
Usable Frequency Range	74 Hz - 20 kHz
Sensitivity***	93.3 dB
Magnet Weight	38 oz.
Gap Height	0.31", 7.94 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Kapton former
Magnet Composition	Ferrite magnet
Core Details	Tapered Coax

Basket Material	Pressed steel basket
Cone Composition	Treated paper cone
Cone Edge Composition	Sealed Cloth cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 61



ALPHA-10A

Recommended for pro audio mid-bass applications in a small sealed cabinet.

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	150 W
Music Program	300 W
Resonance	50 Hz
Usable Frequency Range	57 Hz - 4.5 kHz
Sensitivity***	95.6 dB
Magnet Weight	20 oz.
Gap Height	0.25", 6.35 mm
Voice Coil Diameter	1.50", 38.1 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented and extended core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 61



BETA-10A

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

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	250 W
Music Program	500 W
Resonance	53 Hz
Usable Frequency Range	51 Hz - 3.8 kHz
Sensitivity***	97 dB
Magnet Weight	34 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Aluminum voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 61

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.

AMERICAN STANDARD SERIES



BETA-10CX

Recommended for pro audio vocal wedges, or mid-bass in a sealed enclosure. Also works well in a vented enclosure as a satellite or monitor.

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	250 W
Music Program	500 W
Resonance	48 Hz
Usable Frequency Range	58 Hz - 20 kHz
Sensitivity***	95.1 dB
Magnet Weight	38 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented and extended core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Screened cloth dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 61



DELTA-10A

Recommended for pro audio and bass guitar applications as a woofer/mid-bass or mid-range in vented monitors, satellites and multi-way enclosures.

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 or 16 ohm
Power Rating**	
Watts	350 W
Music Program	700 W
Resonance	66 Hz
Usable Frequency Range	63 Hz - 3.7 kHz
Sensitivity***	98.8 dB
Magnet Weight	56 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	2.50", 63.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Aluminum voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented core
Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 61



ALPHA-12A

Recommended for pro audio mid-bass applications in a small sealed or medium vented enclosure.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	150 W
Music Program	300 W
Resonance	49 Hz
Usable Frequency Range	51 Hz - 4.3 kHz
Sensitivity***	95.6 dB
Magnet Weight	20 oz.
Gap Height	0.25", 6.35 mm
Voice Coil Diameter	1.50", 38.1 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented and extended core
Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition felt dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 62



BETA-12A-2

Recommended for pro audio and bass guitar applications as a woofer in a vented enclosure. Also works well for PA in a sealed or bandpass enclosure.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	250 W
Music Program	500 W
Resonance	47 Hz
Usable Frequency Range	43 Hz - 3.8 kHz
Sensitivity***	98 dB
Magnet Weight	38 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented and extended core
Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 62



BETA-12CX

Recommended for pro audio as a mid-bass in either vented, sealed satellite, or floor monitor enclosures. Also works nicely in vented two-way enclosures used for small coverage areas.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	250 W
Music Program	500 W
Resonance	47 Hz
Usable Frequency Range	66 Hz - 20 kHz
Sensitivity***	96.4 dB
Magnet Weight	38 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Extended core
Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Screened cloth dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 62



BETA-12LTA

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

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	225 W
Music Program	450 W
Resonance	45 Hz
Usable Frequency Range	48 Hz - 8 kHz
Sensitivity***	97.7 dB
Magnet Weight	38 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented core
Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 62



DELTA-12A

Recommended for pro audio as a mid-bass or woofer (with high-pass filter) in vented enclosures.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 or 16 ohm
Power Rating**	
Watts	400 W
Music Program	800 W
Resonance	55 Hz
Usable Frequency Range	54 Hz - 5 kHz
Sensitivity***	98.3 dB
Magnet Weight	56 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	2.50", 63.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Aluminum voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented core
Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition felt dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 62

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.

AMERICAN STANDARD SERIES



DELTA-12LFA

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

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 or 4 ohm
Power Rating**	
Watts	500 W
Music Program	1000 W
Resonance	51 Hz
Usable Frequency Range	44 Hz - 3 kHz
Sensitivity***	94.6 dB
Magnet Weight	56 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	2.50", 63.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented and extended core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 62



KAPPA-12A

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

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	450 W
Music Program	900 W
Resonance	45 Hz
Usable Frequency Range	62 Hz - 4.2 kHz
Sensitivity***	99.3 dB
Magnet Weight	80 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	3", 76.2 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Aluminum voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 62

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.



ALPHA-15A

Recommended for pro audio and bass guitar applications as a woofer in a vented or sealed enclosure.

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	200 W
Music Program	400 W
Resonance	41 Hz
Usable Frequency Range	46 Hz - 3.5 kHz
Sensitivity***	97 dB
Magnet Weight	25 oz.
Gap Height	0.25", 6.35 mm
Voice Coil Diameter	1.50", 38.1 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented and extended core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 63



BETA-15A

Recommended for professional audio as a woofer in sealed and vented enclosures.

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	300 W
Music Program	600 W
Resonance	35 Hz
Usable Frequency Range	45 Hz - 3.7 kHz
Sensitivity***	98.2 dB
Magnet Weight	34 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented and extended core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 63



DELTA-15A

Recommended for pro audio as a mid-bass or vocal wedge in a sealed enclosure. Also suitable as a mid-bass or woofer in vented enclosures.

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 or 16 ohm
Power Rating**	
Watts	400 W
Music Program	800 W
Resonance	40 Hz
Usable Frequency Range	48 Hz - 4 kHz
Sensitivity***	100 dB
Magnet Weight	56 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	2.50", 63.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Aluminum voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 63

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.

AMERICAN STANDARD SERIES



DELTA-15LFA

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

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	500 W
Music Program	1000 W
Resonance	39 Hz
Usable Frequency Range	42 Hz - 3.2 kHz
Sensitivity***	96 dB
Magnet Weight	56 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	2.50", 63.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented and extended core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 63

AMERICAN STANDARD SERIES



GAMMA 15A-2

Recommended for vented pro audio enclosures as a mid/hi or full-range and monitor; also for bass guitar.

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	300 W
Music Program	600 W
Resonance	33 Hz
Usable Frequency Range	48 Hz - 3.3 kHz
Sensitivity***	98.6 dB
Magnet Weight	59 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Aluminum voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented core
Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 63



KAPPA-15A

Recommended for pro audio in a vented mid-bass or bass enclosure. Also suitable for bass guitar.

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 or 4 ohm
Power Rating**	
Watts	450 W
Music Program	900 W
Resonance	33 Hz
Usable Frequency Range	52 Hz - 2.3 kHz
Sensitivity***	100.5 dB
Magnet Weight	80 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	3", 76.2 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented core
Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 63

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.



KAPPA-15LFA

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

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	600 W
Music Program	1200 W
Resonance	39 Hz
Usable Frequency Range	38 Hz - 2.7 kHz
Sensitivity***	99 dB
Magnet Weight	95 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	3", 76.2 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented core
Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 63

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.

HF PRODUCTS & COMPONENTS

NO LOUDSPEAKER SYSTEM OR MUSICAL PERFORMANCE IS COMPLETE WITHOUT HIGH QUALITY, DURABLE HF DEVICES, WELL-DESIGNED HORNS, AND HIGH-PERFORMANCE CROSSOVERS.

Whether for use in Eminence loaded cabinets or an upgrade to an existing system, Eminence HF drivers achieve extraordinary levels of audio performance. Add to that the same unrivaled durability you've come to expect from Eminence bass and midrange transducers, and you've got true professional value.

The Eminence assortment of horns is engineered to provide the perfect compliment to Eminence HF drivers. Each horn is manufactured from the highest quality materials to obtain a balance of strength, durability, and weight savings.

Eminence Professional Series crossovers are technically superior passive filters available in board-only or cabinet-ready configurations. Our high-pass protection circuits center around custom manufactured aerospace lamps, working as positive temperature coefficient series varistors to protect your HF device without introducing distortion. 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.

HF DRIVERS

The NSD:2005 and PSD:2002 drivers are available in either screw-on or bolt-on formats. Please specify your preferences when ordering. The PSD:3006 is bolt-on only.

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.

SPECIFICATION

Throat Size	1", 25.4mm	1", 25.4 mm
Nominal Impedance*	8 ohm	8 ohm
Power Rating**	50 W @ 2.5 kHz	35 W (AES)
Resonance	1.23 kHz	2.1 kHz
Usable Frequency Range	2.5 kHz - 20 kHz	3.5 kHz - 20 kHz
Recommended Crossover	2.5 kHz/18 dB	12 dB/oct @ 3.5 kHz
Sensitivity***	104.3 dB	104.7 dB
Magnet Weight	12 oz. 34 kg	7.75 oz. 22 kg
Voice Coil Diameter	1.3", 33 mm	1.0"/25.4 mm
Voice Coil Former	Aluminum	Kapton
Diaphragm Material	Diamond Titanium	Phenolic
Minimum Impedance	7.7 ohms @ 3 kHz	7.4 ohms @ 6.1 kHz
Re	6.7	6.3

MOUNTING INFORMATION

Overall Diameter	3.5", 88.9 mm	2.75", 70 mm
Depth	2.45", 62 mm	2.5", 63.5 mm
Weight	2 lbs / 0.9 kg	1.63 lbs / 0.74 kg
Mounting Thread	1 3/8" 18 NEF ext.	1 3/8" 18 NEF ext. for mounting on coaxial speakers or screw-on horns.

@ 1W/1M ACROSS 3.5 KHZ-20 KHZ ON AXIS ON H290S HORN



NSD:2005

SPECIFICATION

Throat Size	1", 25.4 mm	1", 25.4 mm	2", 50.8 mm
Nominal Impedance*	8 or 16 ohm	8 or 16 ohm	8 ohm
Power Rating**	50 W	80 W	100 W
Resonance	578 Hz	540 Hz	470 Hz
Usable Frequency Range	1.5 kHz - 20 kHz	1.2 kHz - 20 kHz	800 Hz - 20 kHz
Recommended Crossover	1.5 kHz/12 dB	1.2 kHz/18 dB or 1.8 kHz/12 dB	See Power Rating
Sensitivity***	108.4 dB	106.1 dB	109 dB
Magnet Weight	4.16 oz	34 oz	80 oz
Voice Coil Diameter	2", 51 mm	2", 51 mm	3", 76.2 mm
Voice Coil Former	Polyimide	Polyimide	Polyimide
Diaphragm Material	Titanium	Titanium	Titanium w/geodesic design for increased strength and stiffness
Minimum Impedance	8.7 ohms @ 3.3 kHz	7.6 ohms @ 3.7 kHz	7.1 ohms @ 3.4 kHz
Re	6.8	6.1	4.8

MULTIPLE UNITS EXCEEDING PUBLISHED RATING EVALUATED UNDER AES NOISE SOURCE AND TESTED STANDARD WHILE MOUNTED ON THE H290 HORN IN A NON-TEMPERATURE CONTROLLED ENVIRONMENT.

@ 1W/1M ACROSS 800 HZ-20 KHZ ON AXIS ON H2EA HORN

MOUNTING INFORMATION

Overall Diameter	3.87", 98.3 mm	5.25", 133 mm	7.9", 200.7 mm
Depth	1.75", 44 mm	2.2", 56 mm	3.1", 78.7 mm
Weight	2 lbs / 0.9 kg	5 lbs, Gross 5.76 lbs	13.5 lbs / 6.12 kg
Mounting Holes Diameter	2X 1/4-20	2X 1/4-20 or 3X M6	#4 (1/4-20)
Mounting Holes B.C.D.	3"	3" or 2.25"	4", 101.6 mm
Mounting Thread	1 3/8" 18 NEF ext.	1 3/8" 18 NEF ext.	N/A

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.

SUPERTWEETER OPTIONS



APT:80

Dispersion	80° Conical
Dimensions	3.4" x 3.4", 87 mm x 87 mm
Cut-out	3.15", 80 mm
Depth	2.9", 73.6 mm
Weight	1.6 lbs, 727 grams



APT:150



APT:200



APT:3 ADAPTOR

Apt:3 Adaptor converts the APT:50 to 1 3/8" 18 NEF ext. for mounting on coaxial speakers or screw-on horns.



B2S ADAPTOR

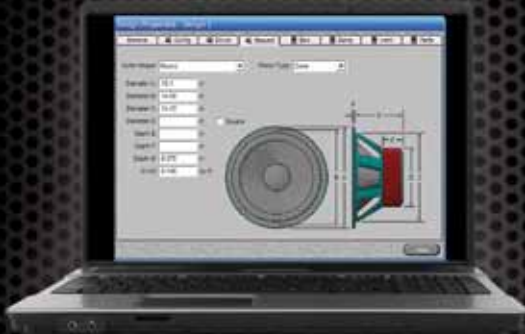
Converts bolt-on driver to accept a screw-on horn. 2x 1/4-20 or 3x M6 driver to 1 3/8" 18 NEF ext. horn.



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. Black Polyamide. Patent pending.

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.

- 1. Enter the loudspeaker parameters (for Eminence loudspeakers, simply select the model; other loudspeaker parameters can be entered manually).
- 2. Calculate the box volume and tuning. This is very easy with the help of the "Suggest" button.
- 3. Evaluate the performance from the nine graphs.

When the program is first run, a "Welcome" window will appear to help you configure the program and to guide you through its illustrated online manual. The online manual contains a "Box Designers Guide" to help beginners learn about sound, speakers and box design. A "Reference" section describe every feature of the program.

To learn more visit www.eminence.com.

HORN FLARES



SPECIFICATION	H290	H290S	H395
Type	Radial	Radial	Constant Directivity
Throat Size	1", 25 mm	1", 25 mm	1", 25 mm
Dispersion	90 x 40	90 x 40	90 x 40
Lowest Rec. Crossover	1 kHz	1 kHz	1 kHz
Width/Height/Depth	11.4" x 6.5" x 5.9"	11.7" x 6.6" x 6.6"	15.6" x 7.3" x 6.1"
Width/Height/Depth (mm)	290 x 165 x 150 mm	297 x 168 x 168 mm	396 x 185 x 155 mm
Cut-out	10.3" x 4.9", 260 x 126 mm	9.7" x 4.9", 246 x 124 mm	13.9" x 5.9", 355 x 150 mm
Attachment Method	Bolt-on	Screw-on	Bolt-on
Weight	1.8 lbs, 818 grams	1.1 lbs, 500 grams	1.8 lbs, 818 grams



SPECIFICATION	SST1	LT250	H2EA	BH410
Type	Constant Directivity	Constant Directivity	Exponential	Exponential
Throat Size	1", 25 mm	1", 25 mm	2", 51 mm	1", 25 mm
Dispersion	90 x 40	60 x 40	60 x 40	60 x 60
Lowest Rec. Crossover	1 kHz	1 kHz	700 Hz	1 kHz
Width/Height/Depth	9.8" x 7.7" x 5.2"	6.7" x 6.4" x 4.2"	12.4" x 7.3" x 6.1"	5.59" x 5.59" x 4.38"
Width/Height/Depth (mm)	249 x 196 x 132 mm	170 x 163 x 107 mm	315 x 185 x 155 mm	141.9 x 141.9 x 111.2 mm
Cut-out	8.5" x 6.4", 216 x 163 mm	5.4" x 5.2", 137 x 132 mm	11.3" x 6.3", 287 x 160 mm	3.56" x 3.56", 90.4 x 90.4 mm
Attachment Method	Bolt-on	Bolt-on	Bolt-on	Screw-on
Weight	1.7 lbs, 773 grams	0.8 lbs, 364 grams	4.9 lbs, 2.24 kg	35 lbs, 159 grams



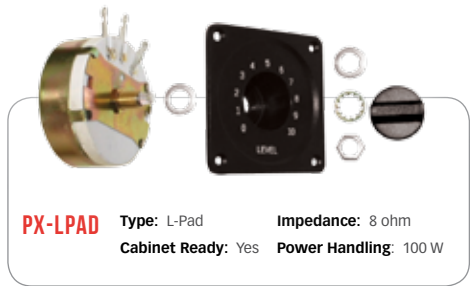
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CROSSOVERS



SPECIFICATION	PX:250	PXB:250	PXB:500	PXB:1K6	PXB:3K5	PXB:5K0	PX2:1K6	PX2:3K5	PX2:5K0
Type	Low-Pass	Low-Pass	Low-Pass	High-Pass	High-Pass	High-Pass	2-way	2-way	2-way
Cabinet Ready*	Yes	No	No	No	No	No	Yes	Yes	Yes
Crossover Frequency	250 Hz	250 Hz	500 Hz	1.6 kHz	3.5 kHz	5 kHz	1.6 kHz	3.5 kHz	5 kHz
Slope	12 dB/octave Butterworth	12 dB/octave Butterworth	12 dB/octave Butterworth	18 dB/octave Butterworth	18 dB/octave Butterworth	18 dB/octave Butterworth	12 dB/octave LP 18 dB/octave HP Butterworth	12 dB/octave LP 18 dB/octave HP Butterworth	12 dB/octave LP 18 dB/octave HP Butterworth
Impedance	8 ohm	8 ohm	8 ohm	8 ohm	8 ohm	8 ohm	8 ohm	8 ohm	8 ohm
Power Handling	600 W	600 W	600 W	400 W	400 W	400 W	400 W	400 W	400 W
HF Level							9 dB	9 dB	9 dB
Mounting Cut-out	3.875" x 6"						3.875" x 6"	3.875" x 6"	3.875" x 6"
Mounting Cut-out (mm)	98.4 x 152.4 mm						98.4 x 152.4 mm	98.4 x 152.4 mm	98.4 x 152.4 mm

SPECIFICATION	PXB2:500	PXB2:800	PXB2:1K6	PXB2:2K5 CX	PXB2:3K5	PXB2:5K0	PXB3:1K6	PXB3:3K5	PXB3:5K0
Type	2-way	2-way	2-way	2-way	2-way	2-way	3-way	3-way	3-way
Cabinet Ready*	No	No	No	No	No	No	No	No	No
Crossover Frequency	500 Hz	800 Hz	1.6 kHz	2.5 kHz	3.5 kHz	5 kHz	500 Hz / 1.6 kHz	500 Hz / 3.5 kHz	500 Hz / 5 kHz
Slope	12 dB/octave LP 18 dB/octave HP Butterworth	12 dB/octave LP 18 dB/octave HP Butterworth	12 dB/octave LP 18 dB/octave HP Butterworth	12 dB/octave LP 12 dB/octave HP Custom	12 dB/octave LP 18 dB/octave HP Butterworth	12 dB/octave LP 18 dB/octave HP Butterworth	12 dB/octave LP 6 dB/octave MP 18 dB/octave HP Butterworth	12 dB/octave LP 6 dB/octave MP 18 dB/octave HP Butterworth	12 dB/octave LP 6 dB/octave MP 18 dB/octave HP Butterworth
Impedance	8 ohm	8 ohm	8 ohm	8 ohm	8 ohm	8 ohm	8 ohm	8 ohm	8 ohm
Power Handling	400 W	400 W	400 W	250 W	400 W	400 W	400 W	400 W	400 W

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.
** Photo at top of page shows cabinet-ready PX crossover (left) and board-only PX crossover (right).





GUITAR SPEAKERS

The most overlooked tool in the tone toolbox is the loudspeaker. Nothing short of changing amplifiers or guitars can make such a difference in your tone. The right speaker can offer you a deep, rich mellow flavor; an articulate, percussive and driving clean sound; or a growling, howling guitar on fire. Eminence offers you over 30 unique specifications for Acoustic and Electric Guitar amps. We have a tone that's right for you and your rig. A tone that only you can call your own. Our speakers are made for the working musician. With a seven-year warranty inside the continental United States, the pride of being Made in the USA, and a price that's as easy to handle as a 12-bar blues line.



MADE IN THE USA



7 YEAR WARRANTY

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

ACOUSTIC

PAGE 35



Eminence Acoustinator™ speakers faithfully reproduce and project your carefully strummed or finger-picked creations. There's nothing artificial added, just the natural tone of fingers on strings. Your music is your story. We just help you tell it.

LEGEND

PAGE 36



The tone that started it all. 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.

PATRIOT

PAGE 38



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.

RED COAT

PAGE 44



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.

THE EMINENCE TONE CENTER RETAIL DISPLAY

Music to your ears – and your bottom line! The Eminence Tone Center 4x12 is loaded with four uniquely voiced guitar speakers, and utilizes a 4-way foot switch to a consumer to play through a selection of speakers using any amplifier of their choice. With full color graphics and product information cards for each model, this attractive retail display makes selling replacement and upgrade guitar speakers a whole lot easier!



The QR code on each info card is embedded with the retailer's name, address, website and contact information.

"I'm excited that for the first time in many years there's a new speaker that I love the sound of."

— ERIC JOHNSON

ONE GUITARIST DEFINES VINTAGE TONE. ONE SPEAKER DELIVERS IT.

Tone. It's elusive and subjective. But one guitarist defines it. When Eric Johnson was looking for his tone, he turned back the clock to the '60s. Then he turned to Eminence who created so much of the sound from that era. Working with Eric and George Alessandro, Eminence has designed the first speaker worthy of Eric's name.

INTRODUCING THE EMINENCE EJ1250.

Vintage alnico tone for the purist in you. Designed from the past with the future in mind. And made by hand right here in the USA.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 or 16 ohm
Power Rating**	50 W
Resonance	89.98 Hz
Usable Frequency Range	80 Hz - 5.1 kHz
Sensitivity***	100.9 dB
Magnet Weight	35 oz.
Gap Height	0.31", 7.95 mm
Voice Coil Diameter	1.75", 44.45 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Paper former
Magnet Composition	Alnico magnet
Core Details	Non-vented core
Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap



THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 64

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.



PHOTO ©
MAX CRACE

TAKE CONTROL OF YOUR TONE WITH EMINENCE.



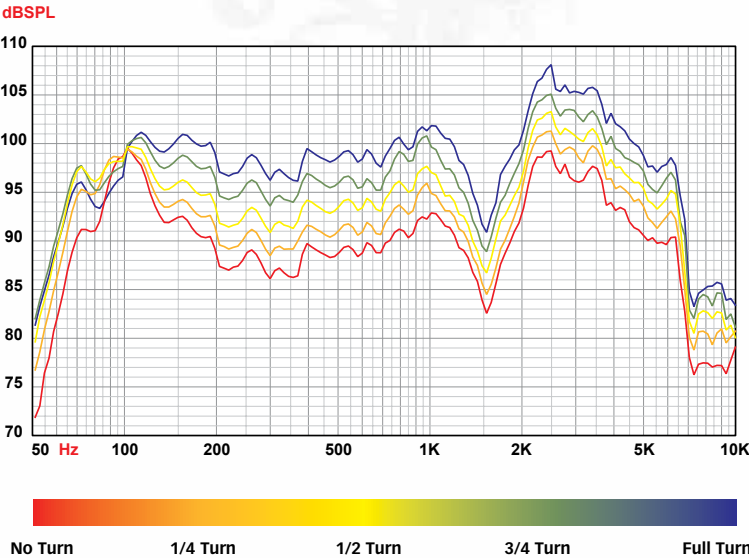
MAVERICK™



REIGNMAKER™

The MAVERICK™ and REIGNMAKER™ with patent-pending FDM™ Technology have put a new twist on guitar tone. Turning the modulator knob gives you complete control over the speaker's output level, associated distortion, and tonal balance, helping you find that sweet spot of saturated tube tone but at a significantly lower volume.

A 300° knob turn offers warmer tones and nearly 9 dB of attenuation. Tweak the knob for a wide range of tones: More attenuation affords a warmer tone while less attenuation restores volume and brightness.



See the Guitar World review online at <http://bit.ly/oi2Bcd>

ACOUSTIC SERIES



ACOUSTINATOR™ CX2008

Recommended for full-range, acoustic instruments in both sealed and vented enclosures. Co-axial for extended HF.

SPECIFICATION

Nominal Basket Diameter	8", 203.2 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	200 W
Music Program	400 W
Resonance	57 Hz
Usable Frequency Range	60 Hz - 3.5 kHz
Sensitivity***	90.8 dB
Magnet Weight	38 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Tapered coax core
Basket Material	Pressed steel basket
Cone Composition	Polypropylene Cone
Cone Edge Composition	Rubber cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 64



ACOUSTINATOR™ NH2008

Lightweight neodymium speaker for acoustic instrument applications in both sealed and vented enclosures. Hemp cone lends a very "woody" tone.

SPECIFICATION

Nominal Basket Diameter	8", 203.2 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	150 W
Music Program	300 W
Resonance	47 Hz
Usable Frequency Range	60 Hz - 3.3 kHz
Sensitivity***	94.5 dB
Magnet Weight	4 oz.
Gap Height	0.28", 7.2 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Neodymium magnet
Core Details	Non-vented core
Basket Material	Pressed steel basket
Cone Composition	Hemp Cone™
Cone Edge Composition	Santoprene cone edge
Dust Cap Composition	Solid composition felt dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 64

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.



ACOUSTINATOR™ N2012

Lightweight neodymium speaker recommended for acoustic instrument applications in both sealed and vented enclosures.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	150 W
Music Program	300 W
Resonance	31 Hz
Usable Frequency Range	40 Hz - 3.5 kHz
Sensitivity***	94.7 dB
Magnet Weight	4 oz.
Gap Height	0.28", 7.2 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Neodymium magnet
Core Details	Non-vented core
Basket Material	Pressed steel basket
Cone Composition	Polypropylene Cone
Cone Edge Composition	Santoprene cone edge
Dust Cap Composition	Solid composition felt dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 64



LEGEND 1028K

A very bluesy speaker with lots of sparkle, definition, and percussive characteristics.

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	35 W
Music Program	N/A
Resonance	95 Hz
Usable Frequency Range	100 Hz - 5.5 k Hz
Sensitivity***	97.4 dB
Magnet Weight	6 oz.
Gap Height	0.25", 6.2 mm
Voice Coil Diameter	1", 25.4 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Alnico magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Solid composition felt dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 65



LEGEND 1058

A very meaty tone, but with sparkle, definition and a smooth top-end.

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 or 16 ohm
Power Rating**	
Watts	75 W
Music Program	N/A
Resonance	97 Hz
Usable Frequency Range	100 Hz - 6 kHz
Sensitivity***	98.7 dB
Magnet Weight	16 oz.
Gap Height	0.25", 6.35 mm
Voice Coil Diameter	1.50", 38.1 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Solid composition felt dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 65



LEGEND 1218

Warm, smooth and fat American tone, with a hint of smooth British break-up

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	150 W
Music Program	N/A
Resonance	100 Hz
Usable Frequency Range	80 Hz - 4.2 kHz
Sensitivity***	98.8 dB
Magnet Weight	38 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 65



LEGEND GB128

Thick and smooth with lots of mids and a very tight top-end. Lots of definition and crunch.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	50 W
Music Program	N/A
Resonance	86 Hz
Usable Frequency Range	80 Hz - 5.1 kHz
Sensitivity***	101.4 dB
Magnet Weight	38 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	1.70", 44.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Paper former
Magnet Composition	Ferrite magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 65



LEGEND V128

A very balanced speaker with lots of definition and rich harmonic detail. More mellow than most Red Coats.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	120 W
Music Program	N/A
Resonance	89 Hz
Usable Frequency Range	80 Hz - 5 kHz
Sensitivity***	100.9 dB
Magnet Weight	38 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	1.75", 44.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Solid composition felt dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 65



LEGEND 1258

American growl, but with sparkle, definition and edgy top-end. Very vintage!

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	75 W
Music Program	N/A
Resonance	94 Hz
Usable Frequency Range	80 Hz - 4 k Hz
Sensitivity***	100.1 dB
Magnet Weight	34 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	1.50", 38.1 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 65

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.



LEGEND 1518

Big American tone! Nice fat bottom, smooth mids, and a very aggressive top end.

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	150 W
Music Program	N/A
Resonance	82 Hz
Usable Frequency Range	60 Hz - 4 kHz
Sensitivity***	102.2 dB
Magnet Weight	59 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 65



THE COPPERHEAD™

Extremely balanced vintage tone with a little country honk and a touch of classic blues tone.

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	75 W
Music Program	N/A
Resonance	105 Hz
Usable Frequency Range	70 Hz - 5 kHz
Sensitivity***	99dB
Magnet Weight	20 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	1.50", 38.1 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 66

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.



DELTA DEMON™

Extremely balanced, dark, creamy smooth tone.

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	100 W
Music Program	N/A
Resonance	76 Hz
Usable Frequency Range	80 Hz - 3 kHz
Sensitivity***	96.9 dB
Magnet Weight	30 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 66



LIL' BUDDY™

A clean and full tone, slow to break-up, but crunchy when driven. Smoother and less defined than many 10" guitar speakers.

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	50 W
Music Program	N/A
Resonance	149 Hz
Usable Frequency Range	80 Hz - 5 kHz
Sensitivity***	99.1 dB
Magnet Weight	30 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	1.70", 44.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Paper former
Magnet Composition	Ferrite magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Hemp Cone™
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 66



RAGIN CAJUN™

Very loud, touch-sensitive and responsive with nice bell-sounding top end and a little bite.

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	75 W
Music Program	N/A
Resonance	84 Hz
Usable Frequency Range	70 Hz - 5 kHz
Sensitivity***	100 dB
Magnet Weight	30 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	1.50", 38.1 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 66

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.



BLACK MOUNTAIN™

Vintage American voiced tone with tight lows and warm, smooth upper mid emphasis and highs. Great single note lead tone.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	30 W
Music Program	N/A
Resonance	69 Hz
Usable Frequency Range	70 Hz - 5.5 kHz
Sensitivity***	101.3 dB
Magnet Weight	35 oz.
Gap Height	0.31", 7.94 mm
Voice Coil Diameter	1.75", 44.45 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper Voice Coil
Coil Former	Paper former
Magnet Composition	Alnico magnet
Core Details	Non-vented Core

Basket Material	Pressed steel basket
Cone Composition	Seamed paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Treated paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 66



BLACK POWDER™

Raw and bright with tight bass and explosive mids and highs.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	75 W
Music Program	N/A
Resonance	72 Hz
Usable Frequency Range	70 Hz - 5 kHz
Sensitivity***	100 dB
Magnet Weight	30 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	1.50", 38.1 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 66



CANIS MAJOR™

Clean, full vintage tone with fat, warm lows, woody mids and tame, smooth highs.

SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	50 W
Music Program	N/A
Resonance	105 Hz
Usable Frequency Range	70 Hz - 4 kHz
Sensitivity***	102 dB
Magnet Weight	35 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	1.75", 44.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Paper former
Magnet Composition	Alnico magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Hemp Cone™
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 66

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.



CANNABIS REX™

Clean and full, with lots of body and sparkle. Smokey smooth with high-end definition.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 or 16 ohm
Power Rating**	
Watts	50 W
Music Program	N/A
Resonance	96 Hz
Usable Frequency Range	70 Hz - 5 kHz
Sensitivity***	102 dB
Magnet Weight	38 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	1.75", 44.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Paper former
Magnet Composition	Ferrite magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Hemp Cone™
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 67



COMMONWEALTH™ 12

Warm and rich, but also very clean and well defined. Great presence! Very full and smooth. Very little cone break-up, but likes overdrive.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	225 W
Music Program	N/A
Resonance	50 Hz
Usable Frequency Range	50 Hz - 4 kHz
Sensitivity***	100 dB
Magnet Weight	109 oz.
Gap Height	0.29", 7.2 mm
Voice Coil Diameter	4", 101.6 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Aluminum voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented core

Basket Material	Die-cast aluminum basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Aluminum dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 67



LIL' TEXAS™

Very balanced with crisp mids and top end bite. Tight bottom end, very American tonality.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 or 16 ohm
Power Rating**	
Watts	125 W
Music Program	N/A
Resonance	90 Hz
Usable Frequency Range	70 Hz - 5.5 kHz
Sensitivity***	101 dB
Magnet Weight	4 oz.
Gap Height	0.28", 7.2 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Neodymium magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 67

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.



MAVERICK™

FDM
TECHNOLOGY
- SEE PAGE 34 -

Very balanced, warm, fat, clean American tone with fat lows, warm mids, and articulate highs. More attenuation provides more warmth and fatter lows.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	75 W
Music Program	N/A
Resonance	82.45 Hz
Usable Frequency Range	75 Hz - 5.2 kHz
Sensitivity***	Max Attenuation: 91.5 dB Full Output: 100 dB
Magnet Weight	38 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	1.75", 44.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	FDM Technology

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 67



RED WHITE AND BLUES™

Nice tight low-end, smooth midrange and top end sparkle. American cousin to the Governor.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	120 W
Music Program	N/A
Resonance	110 Hz
Usable Frequency Range	70 Hz - 4.5 kHz
Sensitivity***	101 dB
Magnet Weight	38 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	1.75", 44.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 67



SCREAMIN EAGLE™

Bright and articulate tone with screamin' top end and tight bass.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 or 16 ohm
Power Rating**	
Watts	50 W
Music Program	N/A
Resonance	79 Hz
Usable Frequency Range	65 Hz - 5.5 kHz
Sensitivity***	101 dB
Magnet Weight	38 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	1.75", 44.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Paper former
Magnet Composition	Ferrite magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 67



SWAMP THANG™

Very powerful, thick and chunky tone. Very touch-sensitive with good sustain. Awesome bottom end.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 or 16 ohm
Power Rating**	
Watts	150 W
Music Program	N/A
Resonance	97 Hz
Usable Frequency Range	70 Hz - 5 kHz
Sensitivity***	102 dB
Magnet Weight	59 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 68



TEXAS HEAT™

Nice warm, fat tone with a little top end bite and clarity. Very touch-sensitive with a hint of British flavor.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8, 4 or 16 ohm
Power Rating**	
Watts	150 W
Music Program	N/A
Resonance	79 Hz
Usable Frequency Range	70 Hz - 5 kHz
Sensitivity***	99 dB
Magnet Weight	38 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 68



COMMONWEALTH™ 15

Warm and rich, but also very clean and well defined. Great presence! Very full and smooth. Very little cone break-up, but likes overdrive.

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	4 ohm
Power Rating**	
Watts	225 W
Music Program	N/A
Resonance	52 Hz
Usable Frequency Range	50 Hz - 4 kHz
Sensitivity***	100.8 dB
Magnet Weight	109 oz.
Gap Height	0.29", 7.2 mm
Voice Coil Diameter	4", 101.6 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Aluminum voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented core

Basket Material	Die-cast aluminum basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Aluminum dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 68



EPS-15C

The aluminum dust cap lends chimey, extended highs that have come to define the classic pedal steel sound - all under 8 lbs.

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	4 ohm
Power Rating**	
Watts	300 W
Music Program	600 W
Resonance	42 Hz
Usable Frequency Range	42 Hz - 2.9 kHz
Sensitivity***	100.2 dB
Magnet Weight	11 oz.
Gap Height	0.36", 9.27 mm
Voice Coil Diameter	3", 76.2 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Neodymium magnet
Core Details	Vented core

Basket Material	Die-cast aluminum basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Aluminum dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 68

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.



RAMROD™

Very loud, gutsy, and meaty tone with singing highs and nice, clear overtones.

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	75 W
Music Program	N/A
Resonance	101 Hz
Usable Frequency Range	80 Hz - 5 kHz
Sensitivity***	100 dB
Magnet Weight	30 oz
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	1.50", 38.1 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 68



RED FANG™ 10

Vintage British tone with loads of detail, chime and grit and a nicely defined low end.

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	50 W
Music Program	N/A
Resonance	111 Hz
Usable Frequency Range	70 Hz - 4.5 kHz
Sensitivity***	102 dB
Magnet Weight	35 oz
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	1.75", 44.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Nomex former
Magnet Composition	Alnico magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 68



THE GOVERNOR™

Classic British tone. Thick and raunchy with lots of mids.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 or 16 ohm
Power Rating**	
Watts	75 W
Music Program	N/A
Resonance	101 Hz
Usable Frequency Range	70 Hz - 5 kHz
Sensitivity***	102 dB
Magnet Weight	56 oz
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	1.75", 44.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Nomex former
Magnet Composition	Ferrite magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 68



MAN O WAR™

A proven and revered sound, very loud and responsive/articulate in every register. Chunky and solid sound with a little top-end sparkle.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 or 16 ohm
Power Rating**	
Watts	120 W
Music Program	N/A
Resonance	91 Hz
Usable Frequency Range	70 Hz - 5.5 kHz
Sensitivity***	102dB
Magnet Weight	38 oz
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	1.75", 44.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 69



PRIVATE JACK™

Thick and smooth, with lots of mids and extended highs. Very well balanced speaker. Classic British flavor.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 or 16 ohm
Power Rating**	
Watts	50 W
Music Program	N/A
Resonance	96 Hz
Usable Frequency Range	70 Hz - 5 kHz
Sensitivity***	101dB
Magnet Weight	38 oz
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	1.75", 44.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Paper former
Magnet Composition	Ferrite magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 69



RED FANG™

Vintage British sound with warm undertones and high-end sparkle.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	50 W
Music Program	N/A
Resonance	97 Hz
Usable Frequency Range	70 Hz - 5.5 kHz
Sensitivity***	103dB
Magnet Weight	35 oz
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	1.75", 44.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Nomex former
Magnet Composition	Alnico magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 69

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.



REIGNMAKER™

FDM
TECHNOLOGY
- SEE PAGE 34 -

Very balanced British tone with tight/punchy lows, warm/ detailed mids abundant in harmonic detail, and articulate highs. More attenuation provides warmth and fatter lows.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 or 16 ohm
Power Rating**	
Watts	75 W
Music Program	N/A
Resonance	91 Hz
Usable Frequency Range	80 Hz - 6.2 kHz
Sensitivity***	Max Attenuation: 98.7 dB Full Output: 100 dB
Magnet Weight	38 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	1.75", 44.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite Magnet
Core Details	FDM Technology

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 69



THE TONESPOTTER™

Very smooth and warm with a fat bottom end and highs that cut through the mix. Warm and thick overtones.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	75 W
Music Program	N/A
Resonance	88 Hz
Usable Frequency Range	70 Hz - 5.5 kHz
Sensitivity***	100.7 dB
Magnet Weight	38 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	1.75", 44.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Paper former
Magnet Composition	Ferrite magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 69

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.



THE TONKER™

A very fat, clean and warm tone through the midrange, smooth top end.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 or 16 ohm
Power Rating**	
Watts	150 W
Music Program	N/A
Resonance	89 Hz
Usable Frequency Range	70 Hz - 5.5 kHz
Sensitivity***	102 dB
Magnet Weight	59 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 69



TONKERLITE™

A nice round, balanced tone like the Tonker, but with extended top end and less lower-mid meat.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 or 16 ohm
Power Rating**	
Watts	125 W
Music Program	N/A
Resonance	109 Hz
Usable Frequency Range	70 Hz - 5.5 kHz
Sensitivity***	101 dB
Magnet Weight	4 oz.
Gap Height	0.28", 7.2 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Neodymium magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 70



THE WIZARD™

Very articulate, but with a hint of grit. Nice sustain and exceptionally good tight bottom. Cross between Private Jack and the Governor.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 or 16 ohm
Power Rating**	
Watts	75 W
Music Program	N/A
Resonance	89 Hz
Usable Frequency Range	70 Hz - 5.5 kHz
Sensitivity***	103 dB
Magnet Weight	56 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	1.75", 44.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Nomex former
Magnet Composition	Ferrite magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 70

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.



BIG BEN

A very big, clean and warm British sound. A somewhat throaty tone with fat bass and smooth highs.

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	225 W
Music Program	N/A
Resonance	85 Hz
Usable Frequency Range	70 Hz - 3.5 kHz
Sensitivity***	101.5 dB
Magnet Weight	56 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	2.50", 63.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Paper cone edge
Dust Cap Composition	Zurette dust cap

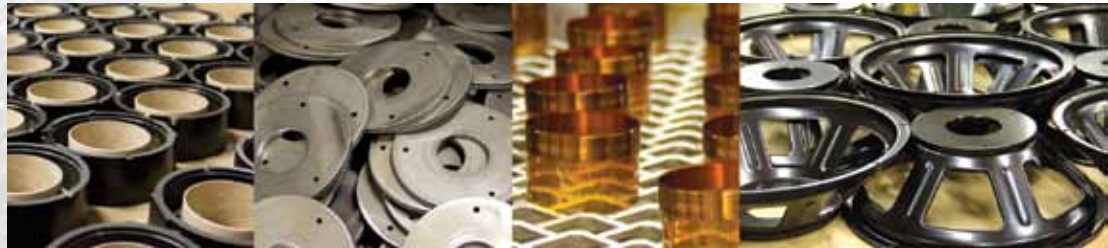
THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 70

BASS GUITAR

No other speaker manufacturer has a better understanding of bass guitar enclosures and the physics of the woofers required to hold your back line together.

LOOK INSIDE most any professional or name brand bass amplifier or enclosure and you're going to find custom designed, Eminence bass guitar speakers.

Whether you're packing a 20lb. practice amp or a 150lb. 8X10 seismic generator, you've chosen your rig to cut through the mix with your signature sound. Maybe you want fast, tight, and articulate, or perhaps you need a fat, round, and warm tone. Maybe you need a speaker that gives you the best of both worlds. You might be playing the CMA awards, have 4 roadies and care less how much your gear weighs, or perhaps your humping yourself to a club in Manhattan via public transportation and can't carry another pound. No matter your circumstances, there's no reason to compromise on your tone!



The world's best bass gear manufacturers can't be wrong, and neither should you. Whether you need to replace a single speaker or want to completely re-vamp your entire rig, let the bass experts at Eminence give you a hand. We're here to help! 502.845.5622 or info@eminence.com.

With a seven-year warranty inside the continental United States, Made in the USA, and offered at prices for the working musician, it's never been easier to put your rig on the Richter scale.

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



BASSLITE® CA2010

Lightweight neodymium bass guitar speaker. Excellent in either sealed or vented enclosures. Nice, tight, top end.

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	150 W
Music Program	300 W
Resonance	51 Hz
Usable Frequency Range	48 Hz - 7 kHz
Sensitivity***	93.5 dB
Magnet Weight	4 oz.
Gap Height	0.28", 7.2 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Neodymium magnet
Core Details	Non-vented core

Basket Material	Die-cast aluminum basket
Cone Composition	Aluminum Alloy Cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition felt dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 70

BASSLITE® CH2010

Lightweight neodymium bass guitar speaker with a hemp cone, ideal in vented 1 x, 2 x, and 4 x 10 enclosures.

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	150 W
Music Program	300 W
Resonance	58 Hz
Usable Frequency Range	54 Hz - 3 kHz
Sensitivity***	96.7 dB
Magnet Weight	4 oz.
Gap Height	0.28", 7.2 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Neodymium magnet
Core Details	Non-vented core

Basket Material	Die-cast aluminum basket
Cone Composition	Hemp Cone™
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 70

BASSLITE® S2010

Lightweight neodymium bass guitar speaker ideal in vented 1 x, 2 x, and 4 x 10 enclosures.

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	150 W
Music Program	300 W
Resonance	46 Hz
Usable Frequency Range	54 Hz - 4 kHz
Sensitivity***	96.2 dB
Magnet Weight	4 oz.
Gap Height	0.28", 7.2 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Neodymium magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition felt dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 70

LEGEND B102

Recommended for bass guitar applications in a vented enclosure. Also suitable as a pro audio midrange.

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	200 W
Music Program	400 W
Resonance	48 Hz
Usable Frequency Range	44 Hz - 4 kHz
Sensitivity***	93 dB
Magnet Weight	45 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented and extended core

Basket Material	Die-cast aluminum basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 70

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.



LEGEND BP102

Recommended for bass guitar applications in a sealed or vented enclosure. Works well in single or multi driver designs.

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	8 or 4 ohm
Power Rating**	
Watts	200 W
Music Program	400 W
Resonance	35 Hz
Usable Frequency Range	40 Hz - 2 kHz
Sensitivity***	92 dB
Magnet Weight	38 oz.
Gap Height	0.31", 7.92 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 71



LEGEND B810

A 32 ohm, 10" bass guitar speaker offering classic sound with modern features. Perfect replacement speaker for your 8x10 cabinet.

SPECIFICATION

Nominal Basket Diameter	10", 254 mm
Nominal Impedance*	32 ohm
Power Rating**	
Watts	150 W
Music Program	300 W
Resonance	52 Hz
Usable Frequency Range	49 Hz - 5.1 kHz
Sensitivity***	92.7 dB
Magnet Weight	30 oz.
Gap Height	0.31", 7.94 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Kapton
Magnet Composition	Ferrite magnet
Core Details	Bumped

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Zurette dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 71



BASSLITE® S2012

Lightweight neodymium bass guitar speaker ideal in vented 1 x, 2 x, and 4 x 12 enclosures.

SPECIFICATION

Nominal Basket Diameter	12", 304.8 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	150 W
Music Program	300 W
Resonance	48 Hz
Usable Frequency Range	49 Hz - 4.5 kHz
Sensitivity***	97 dB
Magnet Weight	4 oz.
Gap Height	0.28", 7.2 mm
Voice Coil Diameter	2", 50.8 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Neodymium magnet
Core Details	Non-vented core

Basket Material	Pressed steel basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition felt dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 71



BASSLITE® C2515

Lightweight neodymium bass guitar speaker. Excellent in either sealed or vented enclosures.

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	4 ohm
Power Rating**	
Watts	300 W
Music Program	600 W
Resonance	38 Hz
Usable Frequency Range	52 Hz - 2.5 kHz
Sensitivity***	98 dB
Magnet Weight	7 oz.
Gap Height	0.28", 7 mm
Voice Coil Diameter	2.50", 63.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Neodymium magnet
Core Details	Vented core

Basket Material	Die-cast aluminum basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 71



LEGEND CA154

High SPL 15" four ohm woofer for use in bass guitar or PA cabinets.

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	4 ohm
Power Rating**	
Watts	300 W
Music Program	600 W
Resonance	51 Hz
Usable Frequency Range	45 Hz - 3 kHz
Sensitivity***	96.9 dB
Magnet Weight	56 oz.
Gap Height	0.38", 9.53 mm
Voice Coil Diameter	2.50", 63.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented core

Basket Material	Pressed Steel basket
Cone Composition	Treated paper cone
Cone Edge Composition	Sealed cloth surround
Dust Cap Composition	Treated paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 71



LEGEND CB158

Recommended for bass guitar applications in a sealed or vented enclosure.

SPECIFICATION

Nominal Basket Diameter	15", 381 mm
Nominal Impedance*	8 ohm
Power Rating**	
Watts	300 W
Music Program	600 W
Resonance	34 Hz
Usable Frequency Range	47 Hz - 3 kHz
Sensitivity***	98 dB
Magnet Weight	80 oz.
Gap Height	0.37", 9.53 mm
Voice Coil Diameter	2.50", 63.5 mm

MATERIALS OF CONSTRUCTION

Coil Construction	Copper voice coil
Coil Former	Polyimide former
Magnet Composition	Ferrite magnet
Core Details	Vented and extended core

Basket Material	Die-cast aluminum basket
Cone Composition	Paper cone
Cone Edge Composition	Cloth cone edge
Dust Cap Composition	Solid composition paper dust cap

THIELE & SMALL PARAMETERS AND MOUNTING INFORMATION: Page 71

* Please see footnotes on page 55 for information regarding nominal impedance, power rating and sensitivity.

* Please see footnotes on page 55 for information regarding 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 these two series. Additional listening tests were also conducted by Greg Martin, lead guitarist for the Kentucky Headhunters and Steve Wilson of Ambient Sound, both 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 these series for any specific application.

NAME	APPLICATION	CONFIGURATION	LOW END RESPONSE	LOW END SHAPE	MID-RANGE RESPONSE	MID-RANGE SHAPE	HIGH-END RESPONSE	VOLUME/ POWER	OVERALL COLORATION*	BREAK-UP MODES	POWER RANGE	INSTRUMENT*	GENRE OF MUSIC*
EJ1250	12" Open or Closed Back	1, 2, or 4 X 12"	Moderate	Fat/Round	Moderate	Warm	Moderate	Loudest	Vintage Alnico tone with a modern twist. American and British characteristics, punchy lows, warm/throaty mids, and articulate highs.	Medium	Up to 50 watts	Lead/Rhythm Guitar	Rock, Blues and Country
THE COPPERHEAD	10" Open or Closed Back	1, 2, or 4 X 10"	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	Lead/Rhythm Guitar, Harmonica	Country, Blues, Bluegrass, and Funk
DELTA DEMON	10" Closed Back	1, 2, or 4 X 10"	Moderate	Fat/Round	Subdued	Dark	Subdued	Loud	Extremely balanced, dark, creamy smooth tone.	Slow	Up to 100 watts	Lead/Rhythm Guitar	Jazz, Delta Blues, and Classical
LIL' BUDDY	10" Open or Closed Back	1, 2, or 4 X 10"	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 many 10 guitar speakers.	Slow	Up to 50 watts	Lead/Rhythm Guitar, Harmonica	Jazz, Rock, and Blues
RAGIN CAJUN	10" Open or Closed Back	1, 2, or 4 X 10"	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	Lead/Rhythm Guitar	American Rock, Blues, and Country
BLACK MOUNTAIN	12" Open or Closed Back	1 or 2 X 12"	Subdued	Tight	Moderate	Warm	Aggressive	Louder	Vintage American voiced tone with tight lows and warm, smooth upper mid emphasis and highs. Great single note lead tone.	Fast	Up to 30 watts	Lead/Rhythm Guitar	Blues, Classic Rock, Country
BLACK POWDER	12" Open Back	1 or 2 X 12"	Subdued	Tight	Moderate	Crisp	Aggressive	Louder	Raw and bright with tight bass and explosive mids and highs.	Medium	Up to 75 watts	Lead/Rhythm Guitar	Southern Rock, College Rock, Heavy Metal, and Grunge
CANIS MAJOR	12" Open or Closed Back	1, 2, or 4 X 12"	Aggressive	Fat/Round	Moderate	Warm	Moderate	Loudest	Clean, full vintage tone with fat, warm lows, woody mids and tame, smooth highs.	Slow	Up to 50 watts	Lead/Rhythm Guitar	Country, Blues, Jazz, Classical, Rock
CANNABIS REX	12" Open or Closed Back	1, 2, or 4 X 12"	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	Lead/Rhythm Guitar, Acoustic Guitar, Keyboard	Country, Jazz, Classical
COMMONWEALTH 12"	12" Open or Closed Back	1 or 2 X 12"	Aggressive	Fat/Round	Moderate	Warm	Moderate	Louder	Warm and rich, but also very clean and well defined. Great presence! Very full and smooth. Very little cone break-up, but likes Overdrive.	Slow	Up to 125 watts	Lead/Rhythm/Steel Guitar	All genres
LIL' TEXAS	12" Open or Closed Back	1, 2, or 4 X 12"	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	Lead/Rhythm Guitar	Classic Rock, Blues, Country
MAVERICK	12" Open Back	1 X 12"	Aggressive	Fat/Round	Moderate	Warm	Moderate	Louder	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	Lead/Rhythm Guitar	All genres
RED WHITE AND BLUES	12" Open or Closed Back	1, 2, or 4 X 12"	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	Lead/Rhythm Guitar	Classic American Rock tone of the 60's and 70's
SCREAMIN EAGLE	12" Open or Closed Back	1, 2, or 4 X 12"	Aggressive	Tight	Moderate	Crisp	Aggressive	Louder	Bright and articulate tone with screamin' top end and tight bass.	Medium	Up to 50 watts	Lead/Rhythm Guitar	Good club speaker for American Blues and Rock
SWAMP THANG	12" Open or Closed Back	1, 2, or 4 X 12"	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	Lead/Rhythm Guitar	Very American tone suitable for Blues, Rock, and Jazz
TEXAS HEAT	12" Open or Closed Back	1, 2, or 4 X 12"	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	Lead/Rhythm Guitar	American Rock, Blues, and Southern Rock
COMMONWEALTH 15"	15" Open Back	1 or 2 X 15"	Aggressive	Fat/Round	Moderate	Warm	Moderate	Louder	Warm and rich, but also very clean and well defined. Great presence! Very full and smooth. Very little cone break-up, but likes Overdrive.	Slow	Up to 150 watts	Lead/Rhythm/Steel Guitar	All genres
EPS 15C	15" Open Back	1 X 15"	Aggressive	Tight	Moderate	Warm	Moderate	Louder	A lightweight solution for pedal steel guitar without sacrificing tone. Tight, punchy lows and warm, smooth mids combined with chimiey, twangy highs from a vintage style aluminum dust cap.	Slow	Up to 300 watts	Steel Guitar	Country and Blues

NAME	APPLICATION	CONFIGURATION	LOW END RESPONSE	LOW END SHAPE	MID-RANGE RESPONSE	MID-RANGE SHAPE	HIGH-END RESPONSE	VOLUME/ POWER	OVERALL COLORATION*	BREAK-UP MODES	POWER RANGE	INSTRUMENT*	GENRE OF MUSIC*
REIGNMAKER	12" Open Back	1 X 12"	Moderate	Tight	Aggressive	Warm	Aggressive	Louder	Balanced British tone with tight/punchy lows, warm/de-tailed mids, abundant in harmonic detail, and articulate highs. More attenuation provides more warmth and fatter lows.	Medium	Up to 75 watts	Lead/Rhythm Guitar	All genres
RAMROD	10" Open or Closed Back	1, 2, or 4 X 10"	Aggressive	Chunky	Moderate	Warm	Aggressive	Louder	Very loud, gutsy, and meaty tone with singing highs and nice, clear overtones.	Medium	Up to 75 watts	Lead/Rhythm Guitar	British Rock and Blues, Country and Jazz
RED FANG 10	10" Open or Closed Back	1, 2, or 4 X 10"	Aggressive	Chunky	Moderate	Warm	Aggressive	Loudest	Vintage British tone with loads of detail, chime and grit and a nicely defined low end.	Medium	Up to 50 watts	Lead/Rhythm Guitar	Vintage classic British tone for blues, country, rock, indie and jazz
THE GOVERNOR	12" Open or Closed Back	1, 2, or 4 X 12"	Moderate	Tight	Aggressive	Warm	Moderate	Loudest	Classic British tone. Thick and raunchy with lots of mids.	Fast	Up to 75 watts	Lead/Rhythm Guitar	Classic British Rock tone of the 60's and 70's
MAN O WAR	12" Open or Closed Back	1, 2, or 4 X 12"	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	Lead/Rhythm Guitar, Harmonica	Great for College Rock, Classic Rock, Grunge, and Heavy Metal
PRIVATE JACK	12" Open or Closed Back	1, 2, or 4 X 12"	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	Lead/Rhythm Guitar	Classic British tone for Blues, Indie, Jazz
RED FANG	12" Open or Closed Back	1, 2, or 4 X 12"	Moderate	Chunky	Moderate	Warm	Aggressive	Loudest	Vintage British sound with warm undertones and high-end sparkle.	Fast	Up to 50 watts	Lead/Rhythm Guitar	Vintage classic British tone for Blues, Country, Indie and Jazz
THE TONESPOTTER	12" Open or Closed Back	1, 2, or 4 X 12"	Aggressive	Fat/Round	Aggressive	Warm	Moderate	Louder	Very smooth and warm with a fat bottom end and highs that cut through the mix. Warm and thick overtones.	Medium	Up to 75 watts	Lead/Rhythm Guitar	Authentic British flavor well suited for Blues and Classic Rock
THE TONKER	12" Open or Closed Back	1, 2, or 4 X 12"	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	Lead/Rhythm Guitar	English Rock, Southern Rock, Country (Great with a Telecaster)
TONKERLITE	12" Open or Closed Back	1, 2, or 4 X 12"	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	Lead/Rhythm Guitar	Blues, Southern Rock, Country
THE WIZARD	12" Open or Closed Back	1, 2, or 4 X 12"	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	Lead/Rhythm Guitar	Classic Rock tones of the 60's and 70's
BIG BEN	15" Open Back	1, or 2 X 15"	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	Lead/Rhythm Guitar	Delta Blues, Texas Blues, Jazz, and Country
LEGEND 1028K	10" Open or Closed Back	1, 2, or 4 X 10"	Subdued	Tight	Moderate	Warm	Aggressive	Loud	Vintage American tone with moderate, but tight, percussive lows and extended highs.	Fast	Up to 35 watts	Lead/Rhythm Guitar, Harmonica	Country, Blues, Rock
LEGEND 1058	10" Open or Closed Back	1, 2, or 4 X 10"	Moderate	Chunky	Moderate	Warm	Moderate	Louder	Vintage American tone with punchy lows and warm, smooth, bluesy mids and highs. Fatter Legend 1028K tone with more depth.	Medium	Up to 75 watts	Lead/Rhythm Guitar	Country, Blues, Rock, Jazz
LEGEND 1258	12" Open or Closed Back	1, 2, or 4 X 12"	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	Lead/Rhythm Guitar	Blues, Rock
LEGEND V128	12" Open or Closed Back	1, 2, or 4 X 12"	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	Lead/Rhythm Guitar	Blues, Rock, Heavy Metal
LEGEND GB128	12" Open or Closed Back	1, 2, or 4 X 12"	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	Lead/Rhythm Guitar	Country, Blues, Rock
LEGEND 1218	12" Open or Closed Back	1, 2, or 4 X 12"	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	Lead/Rhythm Guitar	Country, Blues, Rock, Jazz
LEGEND 1518	15" Open Back	1 or 2 X 15"	Aggressive	Tight	Moderate	Warm	Moderate	Louder	Well balanced 15" with tight/punchy lows and warm, smooth mids and highs.	Medium	Up to 150 watts	Lead/Rhythm Guitar	Country, Blues, Rock, Jazz

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. ie 2.83V/8ohms, 4V/16ohms.

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 Music Program rating is double that of our standard Watts rating.

FOOTNOTES

- * Please consult www.eminence.com for specifications of models with alternative impedances.
- ** Multiple units exceed published rating evaluated under EIA 426A noise source and test standard while in a free-air, non-temperature-controlled environment.
- *** The average output across the usable frequency range when applying 1W/1m into the nominal impedance. ie: 2.83 V/8 ohmS, 4 V/16 ohms. 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

- **** BETA 8CX, 10CX, 12CX and ACOUSTINATOR™ CX2008 are coaxial speakers with tweeter sold separately. Published Usable Frequency response contingent upon use of APT 50 HF Driver.
- ***** Multiple units exceeded published rating evaluated under AES500 and AES800 noise sources and test standards while mounted on Eminence’s TI-2000 horn in a non-temperature-controlled environment.

- ***** The average on axis output across the usable frequency range when mounted to the H2EA horn and 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 | 2ft x 2ft baffle is built into the wall with horn front mounted | Carver PM-120 amplifier | 2700 cu.ft. chamber with fiberglass on all six surfaces (three with custom-made wedges).

Prices and specifications subject to change without notice.

PROFESSIONAL SERIES

THIELE & SMALL PARAMETERS*	DELTA PRO-8A 8 ohm	KAPPA PRO-10A 8 ohm	DEFINIMAX™ 4012HO 8 ohm	DELTA PRO-12A 8 ohm	IMPERO™ 12A 8 ohm	KAPPA PRO-12A 8 ohm	LAB12 6 ohm
Resonant Frequency (fs)	(fs) 69Hz	(fs) 46Hz	(fs) 46Hz	(fs) 51Hz	(fs) 42.75Hz	(fs) 37Hz	(fs) 22Hz
DC Resistance (Re)	(Re) 5.40	(Re) 6.50	(Re) 5.85	(Re) 5.71	(Re) 5.58	(Re) 5.46	(Re) 4.29
Coil Inductance (Le)	(Le) 0.82mH	(Le) 1.15mH	(Le) 1.17mH	(Le) 0.84mH	(Le) 1.46mH	(Le) 1.22mH	(Le) 1.48mH
Mechanical Q (Qms)	(Qms) 6.43	(Qms) 10.10	(Qms) 5.74	(Qms) 7.56	(Qms) 13.84	(Qms) 6.93	(Qms) 13.32
Electromagnetic Q (Qes)	(Qes) 0.20	(Qes) 0.20	(Qes) 0.38	(Qes) 0.37	(Qes) 0.33	(Qes) 0.25	(Qes) 0.39
Total Q (Qts)	(Qts) 0.22	(Qts) 0.20	(Qts) 0.35	(Qts) 0.35	(Qts) 0.32	(Qts) 0.24	(Qts) 0.38
Compliance Equivalent Volume (Vas)	(Vas) 18.32 liters/0.65 cu.ft.	(Vas) 52.2 liters/1.8 cu.ft.	(Vas) 59.4 liters/2.1 cu.ft.	(Vas) 81.7 liters/2.9 cu.ft.	(Vas) 70.2 liters/2.48 cu.ft.	(Vas) 121 liters/4.3 cu.ft.	(Vas) 125.2 liters/4.4 cu.ft.
Peak Diaphragm Displacement Volume (Vd)	(Vd) 66cc	(Vd) 110cc	(Vd) 342cc	(Vd) 242cc	(Vd) 339.40cc	(Vd) 249cc	(Vd) 659cc
Mechanical Compliance of Suspension (Cms)	(Cms) 0.35mm/N	(Cms) 0.31mm/N	(Cms) 0.14mm/N	(Cms) 0.21mm/N	(Cms) 0.17mm/N	(Cms) 0.32mm/N	(Cms) 0.35mm/N
BL Product (BL)	(BL) 14.1 T-M	(BL) 18.8 T-M	(BL) 19.6 T-M	(BL) 15.3 T-M	(BL) 19.49 T-M	(BL) 17.3 T-M	(BL) 15 T-M
Diaphragm Mass Inc. Airload (Mms)	(Mms) 19 grams	(Mms) 38 grams	(Mms) 86 grams	(Mms) 48 grams	(Mms) 83.47 grams	(Mms) 59 grams	(Mms) 146 grams
Efficiency Bandwidth Product (EBP)	(EBP) 307	(EBP) 230	(EBP) 121	(EBP) 138	(EBP) 129.81	(EBP) 148	(EBP) 56
Maximum Linear Excursion (Xmax)	(Xmax) 3mm	(Xmax) 3.2mm	(Xmax) 6.2mm	(Xmax) 4.6mm	(Xmax) 6.22mm	(Xmax) 4.8mm	(Xmax) 13mm
Surface Area of Cone (Sd)	(Sd) 218.2 cm2	(Sd) 344.9 cm2	(Sd) 552 cm2	(Sd) 532.4 cm2	(Sd) 545.4 cm2	(Sd) 519.5 cm2	(Sd) 506.7 cm2
Maximum Mechanical Limit (Xlim)	(Xlim) 8mm	(Xlim) 10.9mm	(Xlim) 11.2mm	(Xlim) 13.7mm	(Xlim) 12.5mm	(Xlim) 14.8mm	(Xlim) 22mm

MOUNTING INFORMATION

Recommended Enclosure Volume	DELTA PRO-8A	KAPPA PRO-10A	DEFINIMAX™ 4012HO	DELTA PRO-12A	IMPERO™ 12A	KAPPA PRO-12A	LAB12
Sealed	8-16 liters/0.3-0.6 cu.ft.	7-9.9 liters/0.25-0.35 cu.ft.	26-31 liters/0.9-1.1 cu.ft.	28-35 liters/1-1.25 cu.ft.	N/A	N/A	22.7-28.3 liters/0.8-1 cu.ft.
Vented	1-16 liters/0.4-0.6 cu.ft.	12-28 liters/0.43-1 cu.ft.	36-79 liters/1.3-2.8 cu.ft.	31-91 liters/1.1-3.2 cu.ft.	33.98-118.93 liters/1.2-4.2 cu.ft.	17-34 liters/0.6-1.2 cu.ft.	45.3-101.9 liters/1.6-3.6 cu.ft.
Driver Volume Displaced	63.7 cu.in. / 1.04 liters	104.8 cu.in. / 1.72 liters	179.3 cu.in. / 2.94 liters	155.5 cu.in. / 2.55 liters	184.8 cu.in. / 3 liters	155.5 cu.in. / 2.55 liters	188.6 cu.in. / 3.09 liters
Overall Diameter	8.02" / 203.71mm	10.25" / 260.4mm	12.38" / 314.3mm	12.38" / 314.5mm	12.38" / 314.45mm	12.38" / 314.5mm	12.32" / 312.8mm
Baffle Hole Diameter	7.36" / 186.9mm	9.13" / 231.8mm	11.06" / 281mm	11.07" / 281mm	11.06" / 280.92mm	11.07" / 281.1mm	10.98" / 278.9mm
Front Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard
Rear Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard
Mounting Holes Diameter	0.28" / 7.1mm	0.28" / 7.1mm	0.28" / 7.1mm	0.27" / 6.9mm	0.27" / 6.98mm	0.26" / 6.5mm	0.26" / 6.6mm
Mounting Holes B.C.D.	8.6" / 218.4mm	9.63" / 244.5mm	11.59" / 294.3mm	11.57" / 293.8mm	11.69" / 296.93mm	11.57" / 293.8mm	11.77" / 299mm
Depth	3.75" / 95mm	4.33" / 11mm	5.32" / 135mm	6.22" / 158mm	6.13" / 155.7mm	6.22" / 158mm	6.44" / 164mm
Net Weight	1 lbs. / 4.5 kg	15.3 lbs. / 6.9 kg	22.5 lbs. / 10.2 kg	16.3 lbs. / 7.4 kg	24.2 lbs. / 10.98 kg	16.6 lbs. / 7.5 kg	22 lbs / 1 kg
Shipping Weight	11 lbs / 4.9 kg	16.4 lbs. / 7.4 kg	29 lbs / 13.1 kg	18 lbs / 8.2 kg	26.6 lbs. / 11.79 kg	18.4 lbs. / 8.4 kg	23.8 lbs. / 10.8 kg

* Please see "Understanding Loudspeaker Data" on page 54 for an explanation of Thiele-Small parameters.

PROFESSIONAL SERIES

THIELE & SMALL PARAMETERS*	DEFINIMAX™ 4015LF 8 ohm	DELTA PRO-15A 8 ohm	IMPERO™ 15A 8 or 4 ohm	KAPPA PRO-15A 8 ohm	KAPPA PRO-15LF-2 8 ohm	KILOMAX® PRO 15A 8 ohm	LAB15 6 ohm
Resonant Frequency (fs)	(fs) 42Hz	(fs) 42Hz	(fs) 42.97Hz	(fs) 47Hz	(fs) 35Hz	(fs) 41Hz	(fs) 28Hz
DC Resistance (Re)	(Re) 5.04	(Re) 5.71	(Re) 5.42	(Re) 5.23	(Re) 6.50	(Re) 4.97	(Re) 4.90
Coil Inductance (Le)	(Le) 1.49mH	(Le) 0.83mH	(Le) 1.47mH	(Le) 1.01mH	(Le) 1.40mH	(Le) 1.78mH	(Le) 3.23mH
Mechanical Q (Qms)	(Qms) 6.73	(Qms) 4.73	(Qms) 15.33	(Qms) 8.01	(Qms) 7.30	(Qms) 8.80	(Qms) 5.36
Electromagnetic Q (Qes)	(Qes) 0.54	(Qes) 0.44	(Qes) 0.40	(Qes) 0.40	(Qes) 0.32	(Qes) 0.40	(Qes) 0.37
Total Q (Qts)	(Qts) 0.50	(Qts) 0.40	(Qts) 0.39	(Qts) 0.38	(Qts) 0.30	(Qts) 0.39	(Qts) 0.35
Compliance Equivalent Volume (Vas)	(Vas) 115.5 liters/4.1 cu.ft.	(Vas) 243.5 liters/8.6 cu.ft.	(Vas) 142.51 liters/5.03 cu.ft.	(Vas) 167.7 liters/5.9 cu.ft.	(Vas) 198.8 liters/7 cu.ft.	(Vas) 154.5 liters/5.5 cu.ft.	(Vas) 103.61 liters/3.7 cu.ft.
Peak Diaphragm Displacement Volume (Vd)	(Vd) 786cc	(Vd) 368cc	(Vd) 625.10cc	(Vd) 274cc	(Vd) 507cc	(Vd) 677cc	(Vd) 968cc
Mechanical Compliance of Suspension (Cms)	(Cms) 0.11mm/N	(Cms) 0.24mm/N	(Cms) 0.14mm/N	(Cms) 0.16mm/N	(Cms) 0.2mm/N	(Cms) 0.15mm/N	(Cms) 0.11mm/N
BL Product (BL)	(BL) 18.4 T-M	(BL) 14.5 T-M	(BL) 19.18 T-M	(BL) 16.6 T-M	(BL) 21.6 T-M	(BL) 17.7 T-M	(BL) 26.7 T-M
Diaphragm Mass Inc. Airload (Mms)	(Mms) 139 grams	(Mms) 61 grams	(Mms) 100.57 grams	(Mms) 72 grams	(Mms) 102 grams	(Mms) 98 grams	(Mms) 308 grams
Efficiency Bandwidth Product (EBP)	(EBP) 77	(EBP) 95	(EBP) 107.37	(EBP) 118	(EBP) 112	(EBP) 103	(EBP) 75
Maximum Linear Excursion (Xmax)	(Xmax) 9mm	(Xmax) 4.3mm	(Xmax) 7.3mm	(Xmax) 3.2mm	(Xmax) 6.7mm	(Xmax) 7.9mm	(Xmax) 11.8mm
Surface Area of Cone (Sd)	(Sd) 872.9 cm2	(Sd) 856.3 cm2	(Sd) 856.3 cm2	(Sd) 856.3 cm2	(Sd) 856.3 cm2	(Sd) 856.3 cm2	(Sd) 823.7 cm2
Maximum Mechanical Limit (Xlim)	(Xlim) 15.5mm	(Xlim) 13.7mm	(Xlim) 15.4mm	(Xlim) 13.2mm	(Xlim) 18mm	(Xlim) 13.5mm	(Xlim) 22mm

MOUNTING INFORMATION

Recommended Enclosure Volume	DEFINIMAX™ 4015LF	DELTA PRO-15A	IMPERO™ 15A	KAPPA PRO-15A	KAPPA PRO-15LF-2	KILOMAX® PRO 15A	LAB15
Sealed	48-57 liters/1.7-2 cu.ft.	28-42.5 liters/1-1.5 cu.ft.	N/A	N/A	N/A	N/A	35-108 liters/1.2-3.8 cu.ft.
Vented	82-181 liters/2.9-6.4 cu.ft.	57-133 liters/2-4.7 cu.ft.	53.8-184.06 liters/1.9-6.5 cu.ft.	54-184 liters/1.9-6.5 cu.ft.	76.5-164 liters/2.7-5.8 cu.ft.	82-176 liters/2.9-6.2 cu.ft.	71-29 liters/2.5-10.3 cu.ft.
Driver Volume Displaced	262.8 cu.in. / 4.31 liters	239 cu.in. / 3.92 liters	268.49 cu.in. / 4.4 liters	239 cu.in. / 3.92 liters	262.8 cu.in. / 4.31 liters	262.8 cu.in. / 4.31 liters	272.1 cu.in. / 4.46 liters
Overall Diameter	15.21" / 386.3mm	15.32" / 389mm	15.22" / 386.59mm	15.32" / 389.1mm	15.21" / 386.4mm	15.21" / 386.3mm	15.34" / 389.6mm
Baffle Hole Diameter	14" / 355.6mm	14" / 356mm	13.99" / 355.35mm	14" / 355.6mm	14" / 355.5mm	14" / 355.6mm	14" / 355.5mm
Front Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as Standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard
Rear Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as Standard	Fitted as standard	Fitted as standard	Fitted as standard	N/A
Mounting Holes Diameter	0.28" / 7.1mm	0.28" / 7.1mm	0.28" / 7.23mm	0.28" / 7.1mm	0.28" / 7.1mm	0.28" / 7.1mm	0.26" / 6.6mm
Mounting Holes B.C.D.	14.56" / 369.8mm	14.56" / 369.9mm	14.56" / 369.87mm	14.56" / 369.9mm	14.56" / 369.9mm	14.56" / 369.8mm	14.7" / 373.5mm
Depth	6.56" / 166.7mm	6.06" / 154mm	6.56" / 166.62mm	6.06" / 154mm	6.57" / 167mm	6.42" / 163mm	7.75" / 197mm
Net Weight	23.7 lbs. / 10.8 kg	17 lbs / 7.5 kg	24.8 lbs. / 11.25 kg	16.9 lbs. / 7.7 kg	22.3 lbs. / 10.1 kg	24.7 lbs. / 11.2 kg	23.8 lbs. / 10.8 kg
Shipping Weight	26 lbs / 11.8 kg	19.1 lbs. / 8.7 kg	27.5 lbs. / 12.34 kg	19.5 lbs. / 8.9 kg	24.8 lbs. / 11.3 kg	27.1 lbs. / 12.3 kg	26 lbs / 11.8 kg

* Please see "Understanding Loudspeaker Data" on page 54 for an explanation of Thiele-Small parameters.

PROFESSIONAL SERIES

THIELE & SMALL PARAMETERS*	OMEGA PRO-15A 8 ohm	DEFINIMAX™ 4018LF 8 ohm	DELTA PRO-18A 8 or 4 ohm	IMPERO™ 18A 8 ohm	KILOMAX® PRO 18A 8 ohm	OMEGA PRO-18A 8 or 4 ohm	SIGMA PRO 18A-2 8 ohm
Resonant Frequency (fs)	(fs) 33Hz	(fs) 32Hz	(fs) 28Hz	(fs) 33.17Hz	(fs) 32Hz	(fs) 25Hz	(fs) 28Hz
DC Resistance (Re)	(Re) 5.28	(Re) 6.19	(Re) 5.30	(Re) 5.41	(Re) 5.07	(Re) 5.20	(Re) 6.29
Coil Inductance (Le)	(Le) 1.04mH	(Le) 4.78mH	(Le) 3.43mH	(Le) 1.47mH	(Le) 1.59mH	(Le) 1.67mH	(Le) 1.90mH
Mechanical Q (Qms)	(Qms) 5.69	(Qms) 10.38	(Qms) 10.38	(Qms) 14.02	(Qms) 10.15	(Qms) 8.18	(Qms) 8.28
Electromagnetic Q (Qes)	(Qes) 0.33	(Qes) 0.36	(Qes) 0.33	(Qes) 0.44	(Qes) 0.49	(Qes) 0.32	(Qes) 0.30
Total Q (Qts)	(Qts) 0.32	(Qts) 0.35	(Qts) 0.32	(Qts) 0.43	(Qts) 0.47	(Qts) 0.31	(Qts) 0.29
Compliance Equivalent Volume (Vas)	(Vas) 258.5 liters/9.1 cu.ft.	(Vas) 237.9 liters/8.4 cu.ft.	(Vas) 493.2 liters/17.41 cu.ft.	(Vas) 317.02 liters/11.19 cu.ft.	(Vas) 331.5 liters/11.7 cu.ft.	(Vas) 548.7 liters/19.4 cu.ft.	(Vas) 441.2 liters/15.6 cu.ft.
Peak Diaphragm Displacement Volume (Vd)	(Vd) 411cc	(Vd) 939cc	(Vd) 796cc	(Vd) 927.20cc	(Vd) 1159cc	(Vd) 556cc	(Vd) 695cc
Mechanical Compliance of Suspension (Cms)	(Cms) 0.25mm/N	(Cms) 0.12mm/N	(Cms) 0.25mm/N	(Cms) 0.17mm/N	(Cms) 0.18mm/N	(Cms) 0.29mm/N	(Cms) 0.24mm/N
BL Product (BL)	(BL) 17.5 T-M	(BL) 27 T-M	(BL) 18.9 T-M	(BL) 18.9 T-M	(BL) 17.2 T-M	(BL) 18.8 T-M	(BL) 22.1 T-M
Diaphragm Mass Inc. Airload (Mms)	(Mms) 94 grams	(Mms) 211 grams	(Mms) 128 grams	(Mms) 139.52 grams	(Mms) 143.17 grams	(Mms) 138 grams	(Mms) 13 grams
Efficiency Bandwidth Product (EBP)	(EBP) 99	(EBP) 89	(EBP) 84	(EBP) 75.37	(EBP) 64.90	(EBP) 79	(EBP) 93
Maximum Linear Excursion (Xmax)	(Xmax) 4.8mm	(Xmax) 7.9mm	(Xmax) 6.7mm	(Xmax) 8mm	(Xmax) 1mm	(Xmax) 4.8mm	(Xmax) 6.1mm
Surface Area of Cone (Sd)	(Sd) 856.3 cm2	(Sd) 1188 cm2	(Sd) 1188 cm2	(Sd) 1159 cm2	(Sd) 1159 cm2	(Sd) 1159 cm2	(Sd) 114 cm2
Maximum Mechanical Limit (Xlim)	(Xlim) 12.2mm	(Xlim) 15.9mm	(Xlim) 15mm	(Xlim) 20.17mm	(Xlim) 19.2mm	(Xlim) 16mm	(Xlim) 18mm

MOUNTING INFORMATION

Recommended Enclosure Volume	OMEGA PRO-15A	DEFINIMAX™ 4018LF	DELTA PRO-18A	IMPERO™ 18A	KILOMAX® PRO 18A	OMEGA PRO-18A	SIGMA PRO 18A-2
Sealed	N/A	N/A	N/A	N/A	104.8-172.7 liters/3.7-6.1 cu.ft.	N/A	N/A
Vented	57-108 liters/2-3.8 cu.ft.	125-21 liters/4.4-7.4 cu.ft.	85-297 liters/3-10.5 cu.ft.	113.27-277.51 liters/4-9.8 cu.ft.	118.9-303 liters/4.2-10.7 cu.ft.	96-198 liters/3.4-7 cu.ft.	93-212 liters/3.3-7.5 cu.ft.
Driver Volume Displaced	262.8 cu.in. / 4.31 liters	403.9 cu.in. / 6.62 liters	367 cu.in. / 6.01 liters	409.6 cu.in. / 6.7 liters	403.9 cu.in. / 6.62 liters	403.9 cu.in. / 6.62 liters	403.9 cu.in. / 6.62 liters
Overall Diameter	15.21" / 386.4mm	18" / 457.2mm	18" / 457.2mm	18" / 457.2mm	18" / 457.2mm	18" / 457.2mm	18" / 457.2mm
Baffle Hole Diameter	14" / 355.6mm	16.57" / 420.9mm	16.57" / 420.9mm	16.56" / 420.62mm	16.56" / 420.6mm	16.56" / 420.5mm	16.56" / 420.5mm
Front Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard
Rear Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard
Mounting Holes Diameter	0.28" / 7.1mm	0.28" / 7.1mm	0.28" / 7.1mm	0.29" / 7.36mm	0.28" / 7.1mm	0.28" / 7.1mm	0.28" / 7.1mm
Mounting Holes B.C.D.	14.56" / 369.9mm	17.25" / 438.2mm	17.25" / 438.2mm	17.25" / 438.15mm	17.25" / 438.2mm	17.25" / 438.2mm	17.25" / 438.2mm
Depth	6.35" / 161mm	8.13" / 206.4mm	8.13" / 207mm	8.31" / 211.07mm	8.15" / 207mm	8.15" / 207mm	8.15" / 207mm
Net Weight	22.7 lbs. / 10.3 kg	24 lbs / 10.9 kg	17 lbs / 7.7 kg	27.3 lbs. / 12.38 kg	27.4 lbs. / 12.4 kg	25.2 lbs. / 11.4 kg	24.5 lbs. / 11.1 kg
Shipping Weight	25.2 lbs. / 11.4 kg	26 lbs / 11.8 kg	20.5 lbs. / 9.3 kg	30.8 lbs. / 13.97 kg	30.9 lbs. / 14 kg	28.9 lbs. / 13.1 kg	28.1 lbs. / 12.8 kg

NEODYMIUM SERIES

THIELE & SMALL PARAMETERS*	ALPHALITE™ 6A 8 ohm	ALPHALITE™ 6A-CBMR 8 ohm	LA8-CNMB A 8 ohm	DELTALITE® II 2510 8 ohm	DELTALITE® II 2512 8 ohm	KAPPALITE™ 3012HO 8 ohm	KAPPALITE™ 3012LF 8 ohm
Resonant Frequency (fs)	(fs) 126Hz	(fs) 501Hz	(fs) 81Hz	(fs) 53Hz	(fs) 37Hz	(fs) 51.50Hz	(fs) 37.02Hz
DC Resistance (Re)	(Re) 7.30	(Re) 7.40	(Re) 5.60	(Re) 5.06	(Re) 5.04	(Re) 5.50	(Re) 5.60
Coil Inductance (Le)	(Le) 0.53mH	(Le) 0.49mH	(Le) 0.62mH	(Le) 0.40mH	(Le) 0.46mH	(Le) 0.57mH	(Le) 0.98mH
Mechanical Q (Qms)	(Qms) 6.30	(Qms) 9.09	(Qms) 4.66	(Qms) 5.76	(Qms) 3.13	(Qms) 8.39	(Qms) 6.94
Electromagnetic Q (Qes)	(Qes) 0.61	(Qes) 1.83	(Qes) 0.40	(Qes) 0.45	(Qes) 0.44	(Qes) 0.33	(Qes) 0.34
Total Q (Qts)	(Qts) 0.56	(Qts) 1.53	(Qts) 0.37	(Qts) 0.42	(Qts) 0.39	(Qts) 0.32	(Qts) 0.32
Compliance Equivalent Volume (Vas)	(Vas) 4.92 liters/0.17 cu.ft.	(Vas) 0.27 liters/0.01 cu.ft.	(Vas) 10.95 liters/0.39 cu.ft.	(Vas) 52.5 liters/1.9 cu.ft.	(Vas) 147 liters/5.2 cu.ft.	(Vas) 81.1 liters/2.86 cu.ft.	(Vas) 106.65 liters/3.77 cu.ft.
Peak Diaphragm Displacement Volume (Vd)	(Vd) 46cc	(Vd) 1.40cc	(Vd) 100cc	(Vd) 147cc	(Vd) 255cc	(Vd) 330cc	(Vd) 496cc
Mechanical Compliance of Suspension (Cms)	(Cms) 0.21mm/N	(Cms) 0.01mm/N	(Cms) 0.16mm/N	(Cms) 0.3mm/N	(Cms) 0.38mm/N	(Cms) 0.2mm/N	(Cms) 0.26mm/N
BL Product (BL)	(BL) 8.5 T-M	(BL) 9.8 T-M	(BL) 13 T-M	(BL) 10.6 T-M	(BL) 11.3 T-M	(BL) 15.9 T-M	(BL) 16.7 T-M
Diaphragm Mass Inc. Airload (Mms)	(Mms) 7.7 grams	(Mms) 7.6 grams	(Mms) 24 grams	(Mms) 31 grams	(Mms) 49 grams	(Mms) 46.9 grams	(Mms) 72.4 grams
Efficiency Bandwidth Product (EBP)	(EBP) 204.90	(EBP) 273.20	(EBP) 201	(EBP) 117	(EBP) 84	(EBP) 157.40	(EBP) 109.70
Maximum Linear Excursion (Xmax)	(Xmax) 3.5mm	(Xmax) 0.1mm	(Xmax) 4.5mm	(Xmax) 4.2mm	(Xmax) 4.9mm	(Xmax) 6.2mm	(Xmax) 9.1mm
Surface Area of Cone (Sd)	(Sd) 129.9 cm2	(Sd) 139.7 cm2	(Sd) 222.4 cm2	(Sd) 350.1 cm2	(Sd) 519.5 cm2	(Sd) 532.4 cm2	(Sd) 545.4 cm2
Maximum Mechanical Limit (Xlim)	(Xlim) 4mm	(Xlim) 1.6mm	(Xlim) 8mm	(Xlim) 8mm	(Xlim) 8.5mm	(Xlim) 12.5mm	(Xlim) 14.5mm

MOUNTING INFORMATION

Recommended Enclosure Volume	ALPHALITE™ 6A	ALPHALITE™ 6A-CBMR	LA8-CNMB A	DELTALITE® II 2510	DELTALITE® II 2512	KAPPALITE™ 3012HO	KAPPALITE™ 3012LF
Sealed	2.83-8 liters/0.1-0.28 cu.ft.	N/A	7-17 liters/0.2-0.6 cu.ft.	12.7-17 liters/0.45-0.6 cu.ft.	23-28 liters/0.8-1 cu.ft.	28-76 liters/1-2.7 cu.ft.	23-59 liters/1.3-3 cu.ft.
Vented	3-16 liters/0.1-0.6 cu.ft.	N/A	1-17 liters/0.4-0.6 cu.ft.	17-39.6 liters/0.6-1.4 cu.ft.	33-85 liters/1.2-3 cu.ft.	41-11 liters/1.5-3.9 cu.ft.	37-85 liters/1.3-3 cu.ft.
Driver Volume Displaced	15.1 cu.in. / 0.25 liters	15.1 cu.in. / 0.25 liters	33.5 cu.in. / 0.55 liters	45 cu.in. / 0.74 liters	86.4 cu.in. / 1.42 liters	93.6 cu.in. / 1.53 liters	95.3 cu.in. / 1.56 liters
Overall Diameter	6.59" / 167.39mm	6.59" / 167.39mm	8.02" / 203.7mm	10.25" / 260.4mm	12.38" / 314.5mm	12.38" / 314.45mm	12.38" / 314.45mm
Baffle Hole Diameter	5.69" / 144.53mm	5.69" / 144.53mm	7.36" / 186.9mm	9.15" / 232.4mm	11.06" / 280.9mm	11.06" / 280.9mm	11.06" / 280.9mm
Front Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard
Rear Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard
Mounting Holes Diameter	0.23" / 5.8mm	0.23" / 5.8mm	0.28" / 7.11mm	0.28" / 7.1mm	0.28" / 7.1mm	0.28" / 7.1mm	0.28" / 7.1mm
Mounting Holes B.C.D.	6.06" / 153.9mm	6.06" / 153.9mm	8.6" / 218mm	9.73" / 247.1mm	11.62" / 295.1mm	11.62" / 295.2mm	11.62" / 295.2mm
Depth	2.4" / 61mm	2.4" / 61mm	3.9" / 99.06mm	4.9" / 123.8mm	6.06" / 154mm	5.63" / 143mm	6" / 152.4mm
Net Weight	2.2 lbs. / 1 kg	2.3 lbs. / 1.04 kg	4.77 lbs / 2.2 kg	4.6 lbs. / 2.1 kg	5.1 lbs. / 2.3 kg	7.1 lbs. / 3.22 kg	7.6 lbs. / 3.45 kg
Shipping Weight	2.9 lbs. / 1.3 kg	3 lbs / 1.3 kg	5.47 lbs / 2.4 kg	5.7 lbs. / 2.6 kg	6.8 lbs. / 3.1 kg	8.7 lbs. / 3.95 kg	9.2 lbs. / 4.17 kg

NEODYMIUM SERIES

AMERICAN STANDARD SERIES

THIELE & SMALL PARAMETERS*

	DELTALITE® II 2515 8 ohm	KAPPALITE™ 3015 8 ohm	KAPPALITE™ 3015LF 8 ohm	ALPHA-6A 8 or 4 ohm	LA6-CBMR 8 ohm	ALPHA-8A 8 ohm
Resonant Frequency (fs)	(fs) 42Hz	(fs) 45Hz	(fs) 44Hz	(fs) 118Hz	(fs) 460Hz	(fs) 73Hz
DC Resistance (Re)	(Re) 5.29	(Re) 5.27	(Re) 5.50	(Re) 7.20	(Re) 6.30	(Re) 5.30
Coil Inductance (Le)	(Le) 1.15mH	(Le) 0.64mH	(Le) 0.93mH	(Le) 0.19mH	(Le) 0.33mH	(Le) 0.44mH
Mechanical Q (Qms)	(Qms) 4.56	(Qms) 6.70	(Qms) 8.97	(Qms) 5.68	(Qms) 3.13	(Qms) 4.60
Electromagnetic Q (Qes)	(Qes) 0.41	(Qes) 0.36	(Qes) 0.48	(Qes) 0.60	(Qes) 1.24	(Qes) 0.68
Total Q (Qts)	(Qts) 0.38	(Qts) 0.34	(Qts) 0.46	(Qts) 0.54	(Qts) 0.89	(Qts) 0.59
Compliance Equivalent Volume (Vas)	(Vas) 204 liters/7.2 cu.ft	(Vas) 153 liters/5.4 cu.ft	(Vas) 150.9 liters/5.3 cu.ft	(Vas) 5.8 liters/0.2 cu.ft	(Vas) 0.4 liters/0.01 cu.ft	(Vas) 17.7 liters/0.6 cu.ft
Peak Diaphragm Displacement Volume (Vd)	(Vd) 411cc	(Vd) 505cc	(Vd) 846cc	(Vd) 44cc	(Vd) 2.70cc	(Vd) 67cc
Mechanical Compliance of Suspension (Cms)	(Cms) 0.2mm/N	(Cms) 0.15mm/N	(Cms) 0.14mm/N	(Cms) 0.26mm/N	(Cms) 0.01mm/N	(Cms) 0.28mm/N
BL Product (BL)	(BL) 15.7 T-M	(BL) 18.6 T-M	(BL) 17 T-M	(BL) 8 T-M	(BL) 11.1 T-M	(BL) 7.8 T-M
Diaphragm Mass Inc. Airload (Mms)	(Mms) 72 grams	(Mms) 84 grams	(Mms) 93.4 grams	(Mms) 7 grams	(Mms) 9 grams	(Mms) 17 grams
Efficiency Bandwidth Product (EBP)	(EBP) 103	(EBP) 125	(EBP) 90	(EBP) 197	(EBP) 371	(EBP) 107
Maximum Linear Excursion (Xmax)	(Xmax) 4.8mm	(Xmax) 5.9mm	(Xmax) 9.6mm	(Xmax) 3.5mm	(Xmax) 0.2mm	(Xmax) 3.2mm
Surface Area of Cone (Sd)	(Sd) 856.3 cm2	(Sd) 856 cm2	(Sd) 881.1 cm2	(Sd) 126.7 cm2	(Sd) 133.1 cm2	(Sd) 21 cm2
Maximum Mechanical Limit (Xlim)	(Xlim) 9mm	(Xlim) 11mm	(Xlim) 17mm	(Xlim) 4mm	(Xlim) 0.8mm	(Xlim) 7.1mm

MOUNTING INFORMATION

Recommended Enclosure Volume	DELTALITE® II 2515	KAPPALITE™ 3015	KAPPALITE™ 3015LF	ALPHA-6A	LA6-CBMR	ALPHA-8A
Sealed	42-548 liters/1.5-1.7 cu.ft.	N/A	N/A	2.8-5.7 liters/0.1-0.2 cu.ft.	Acceptable	5-7 liters/0.18-0.25 cu.ft.
Vented	51-119 liters/1.8-4.2 cu.ft.	51-144 liters/1.8-5.1 cu.ft.	99-195 liters/3.5-6.9 cu.ft.	3.4-15.6 liters/0.12-0.55 cu.ft.	Acceptable	16.7-25.5 liters/0.59-0.9 cu.ft.
Driver Volume Displaced	145.1 cu.in. / 2.38 liters	155.2 cu.in. / 2.54 liters	156.4 cu.in. / 2.56 liters	25 cu.in. / 0.41 liters	38.1 cu.in. / 0.62 liters	35.3 cu.in. / 0.58 liters
Overall Diameter	15.32" / 389mm	15.32" / 389.1mm	15.32" / 389.1mm	6.59" / 167.4mm	6.59" / 167mm	8.24" / 209.2mm
Baffle Hole Diameter	14" / 355.6mm	14" / 356.4mm	14.03" / 356.4mm	5.69" / 144.5mm	5.65" / 143.5mm	7.13" / 181mm
Front Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard
Rear Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	N/A	Fitted as standard
Mounting Holes Diameter	0.28" / 7.1mm	0.28" / 7.1mm	0.28" / 7.1mm	0.23" / 5.7mm	0.23" / 5.7mm	0.22" / 5.5mm
Mounting Holes B.C.D.	14.56" / 369.9mm	14.56" / 369.8mm	14.56" / 369.8mm	6.06" / 154mm	6.06" / 154mm	7.75" / 196.9mm
Depth	6.81" / 173mm	6.8" / 173mm	7.25" / 184.2mm	2.8" / 71mm	2.77" / 7mm	3.25" / 83mm
Net Weight	5.7 lbs. / 2.6 kg	7.9 lbs. / 3.6 kg	8.6 lbs. / 3.9 kg	4.1 lbs. / 1.9 kg	6.7 lbs. / 3 kg	4.3 lbs. / 1.9 kg
Shipping Weight	7.9 lbs. / 3.6 kg	10.1 lbs. / 4.6 kg	10.7 lbs. / 4.9 kg	4.8 lbs. / 2.2 kg	7.2 lbs. / 3.3 kg	5.1 lbs. / 2.3 kg

* Please see "Understanding Loudspeaker Data" on page 54 for an explanation of Thiele-Small parameters.

AMERICAN STANDARD SERIES

THIELE & SMALL PARAMETERS*

	ALPHA-8MRA 8 ohm	BETA-8A 8 ohm	BETA-8CX 8 ohm	ALPHA-10A 8 ohm	BETA-10A 8 ohm	BETA-10CX 8 ohm	DELTA-10A 8 or 16 ohm
Resonant Frequency (fs)	(fs) 514Hz	(fs) 65Hz	(fs) 63Hz	(fs) 50Hz	(fs) 53Hz	(fs) 48Hz	(fs) 66Hz
DC Resistance (Re)	(Re) 7.32	(Re) 5.99	(Re) 5.60	(Re) 5.31	(Re) 5.75	(Re) 5.53	(Re) 5.42
Coil Inductance (Le)	(Le) 0.34mH	(Le) 0.49mH	(Le) 0.85mH	(Le) 0.66mH	(Le) 0.67mH	(Le) 0.75mH	(Le) 0.74mH
Mechanical Q (Qms)	(Qms) 4.48	(Qms) 4.95	(Qms) 8.82	(Qms) 5.21	(Qms) 8.14	(Qms) 5.21	(Qms) 6.53
Electromagnetic Q (Qes)	(Qes) 2.08	(Qes) 0.42	(Qes) 0.34	(Qes) 0.66	(Qes) 0.52	(Qes) 0.43	(Qes) 0.35
Total Q (Qts)	(Qts) 1.42	(Qts) 0.38	(Qts) 0.33	(Qts) 0.59	(Qts) 0.49	(Qts) 0.39	(Qts) 0.33
Compliance Equivalent Volume (Vas)	(Vas) 0.8 liters/0.03 cu.ft.	(Vas) 23.3 liters/0.82 cu.ft.	(Vas) 19.99 liters/0.71 cu.ft.	(Vas) 82.2 liters/2.9 cu.ft.	(Vas) 60.1 liters/2.1 cu.ft.	(Vas) 64.2 liters/2.3 cu.ft.	(Vas) 30.5 liters/1.1 cu.ft.
Peak Diaphragm Displacement Volume (Vd)	(Vd) 0cc	(Vd) 63cc	(Vd) 67.20cc	(Vd) 114cc	(Vd) 102cc	(Vd) 173cc	(Vd) 121cc
Mechanical Compliance of Suspension (Cms)	(Cms) 0.01mm/N	(Cms) 0.37mm/N	(Cms) 0.32mm/N	(Cms) 0.46mm/N	(Cms) 0.36mm/N	(Cms) 0.39mm/N	(Cms) 0.18mm/N
BL Product (BL)	(BL) 8.9 T-M	(BL) 9.6 T-M	(BL) 11.1 T-M	(BL) 7.5 T-M	(BL) 9.6 T-M	(BL) 10.4 T-M	(BL) 14.4 T-M
Diaphragm Mass Inc. Airload (Mms)	(Mms) 6.9 grams	(Mms) 16 grams	(Mms) 18.3 grams	(Mms) 22 grams	(Mms) 25 grams	(Mms) 27 grams	(Mms) 32 grams
Efficiency Bandwidth Product (EBP)	(EBP) 247	(EBP) 156	(EBP) 193.10	(EBP) 76	(EBP) 103	(EBP) 114	(EBP) 189
Maximum Linear Excursion (Xmax)	(Xmax) 1.6mm	(Xmax) 3mm	(Xmax) 3.2mm	(Xmax) 3.2mm	(Xmax) 3mm	(Xmax) 5mm	(Xmax) 3.5mm
Surface Area of Cone (Sd)	(Sd) 205.9 cm2	(Sd) 21 cm2	(Sd) 21 cm2	(Sd) 355.4 cm2	(Sd) 344.9 cm2	(Sd) 344.9 cm2	(Sd) 344.9 cm2
Maximum Mechanical Limit (Xlim)	(Xlim) 3mm	(Xlim) 7.4mm	(Xlim) 6.9mm	(Xlim) 9.1mm	(Xlim) 8.6mm	(Xlim) 7.6mm	(Xlim) 9.4mm

MOUNTING INFORMATION

Recommended Enclosure Volume	ALPHA-8MRA	BETA-8A	BETA-8CX	ALPHA-10A	BETA-10A	BETA-10CX	DELTA-10A
Sealed	N/A	5.7-9.9 liters/0.2-0.35 cu.ft.	3-1 liters/0.1-0.4 cu.ft.	8.5-11.3 liters/0.3-0.4 cu.ft.	8.5-14.2 liters/0.3-0.5 cu.ft.	14.2-19.8 liters/0.5-0.7 cu.ft.	N/A
Vented	N/A	8.5-19 liters/0.3-0.67 cu.ft.	8-21 liters/0.3-0.8 cu.ft.	28.3-53.8 liters/1-1.9 cu.ft.	19.8-70.8 liters/0.7-2.5 cu.ft.	15.6-85 liters/0.55-3 cu.ft.	12.7-37.9 liters/0.45-1.34 cu.ft.
Driver Volume Displaced	35.3 cu.in. / 0.58 liters	46.3 cu.in. / 0.76 liters	48.4 cu.in. / 0.79 liters	58.1 cu.in. / 0.95 liters	69.1 cu.in. / 1.13 liters	71.3 cu.in. / 1.17 liters	86.5 cu.in. / 1.42 liters
Overall Diameter	8.22" / 208.8mm	8.24" / 209.2mm	8.24" / 209.3mm	10.11" / 256.8mm	10.11" / 256.8mm	10.08" / 256.1mm	10.09" / 256.2mm
Baffle Hole Diameter	7.19" / 182.5mm	7.13" / 181mm	7.13" / 181.1mm	9.13" / 231.8mm	9.13" / 231.8mm	9.18" / 233.17mm	9.18" / 233.17mm
Front Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard
Rear Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard
Mounting Holes Diameter	0.22" / 5.5mm	0.22" / 5.5mm	0.22" / 5.6mm	0.23" / 5.7mm	0.23" / 5.7mm	0.25" / 6.4mm	0.25" / 6.4mm
Mounting Holes B.C.D.	7.75" / 196.9mm	7.75" / 196.9mm	7.75" / 196.9mm	9.6" / 243.8mm	9.6" / 243.8mm	9.66" / 245.4mm	9.66" / 245.4mm
Depth	3.25" / 83mm	3.5" / 89mm	3.5" / 88.9mm	3.9" / 99mm	3.98" / 101mm	3.98" / 101mm	4.25" / 108mm
Net Weight	4.4 lbs. / 2 kg	6.6 lbs. / 3 kg	6.8 lbs. / 3.1 kg	4.5 lbs. / 2 kg	6.8 lbs. / 3.1 kg	7.3 lbs. / 3.3 kg	10.8 lbs. / 4.9 kg
Shipping Weight	5.1 lbs. / 2.3 kg	7.4 lbs. / 3.4 kg	7.5 lbs. / 3.4 kg	5.6 lbs. / 2.5 kg	7.8 lbs. / 3.6 kg	8.4 lbs. / 3.8 kg	12 lbs / 5.4 kg

* Please see "Understanding Loudspeaker Data" on page 54 for an explanation of Thiele-Small parameters.

AMERICAN STANDARD SERIES

THIELE & SMALL PARAMETERS*	ALPHA-12A 8 ohm	BETA-12A-2 8 ohm	BETA-12CX 8 ohm	BETA-12LTA 8 ohm	DELTA-12A 8 or 16 ohm	DELTA-12LFA 8 or 4 ohm	KAPPA-12A 8 ohm
Resonant Frequency (fs)	(fs) 49Hz	(fs) 47Hz	(fs) 47Hz	(fs) 45Hz	(fs) 55Hz	(fs) 51Hz	(fs) 45Hz
DC Resistance (Re)	(Re) 6.30	(Re) 5	(Re) 5.57	(Re) 7.37	(Re) 6.30	(Re) 6.06	(Re) 5.41
Coil Inductance (Le)	(Le) 0.79mH	(Le) 0.64mH	(Le) 1.01mH	(Le) 0.83mH	(Le) 0.74mH	(Le) 1.45mH	(Le) 0.77mH
Mechanical Q (Qms)	(Qms) 6.53	(Qms) 6	(Qms) 6.69	(Qms) 6.44	(Qms) 5.27	(Qms) 7.28	(Qms) 7.76
Electromagnetic Q (Qes)	(Qes) 0.88	(Qes) 0.50	(Qes) 0.51	(Qes) 0.55	(Qes) 0.46	(Qes) 0.51	(Qes) 0.28
Total Q (Qts)	(Qts) 0.77	(Qts) 0.46	(Qts) 0.48	(Qts) 0.51	(Qts) 0.43	(Qts) 0.47	(Qts) 0.27
Compliance Equivalent Volume (Vas)	(Vas) 121.5 liters/4.3 cu.ft.	(Vas) 120.1 liters/4.2 cu.ft.	(Vas) 161 liters/5.7 cu.ft.	(Vas) 136.3 liters/4.8 cu.ft.	(Vas) 81.3 liters/2.9 cu.ft.	(Vas) 67.9 liters/2.4 cu.ft.	(Vas) 112.1 liters/4 cu.ft.
Peak Diaphragm Displacement Volume (Vd)	(Vd) 125cc	(Vd) 237cc	(Vd) 186cc	(Vd) 170cc	(Vd) 125cc	(Vd) 243cc	(Vd) 166cc
Mechanical Compliance of Suspension (Cms)	(Cms) 0.32mm/N	(Cms) 0.29mm/N	(Cms) 0.4mm/N	(Cms) 0.34mm/N	(Cms) 0.21mm/N	(Cms) 0.19mm/N	(Cms) 0.3mm/N
BL Product (BL)	(BL) 8.5 T-M	(BL) 10.8 T-M	(BL) 1 T-M	(BL) 11.7 T-M	(BL) 13.5 T-M	(BL) 14.1 T-M	(BL) 15.2 T-M
Diaphragm Mass Inc. Airload (Mms)	(Mms) 33 grams	(Mms) 4 grams	(Mms) 34 grams	(Mms) 36 grams	(Mms) 39 grams	(Mms) 51 grams	(Mms) 42 grams
Efficiency Bandwidth Product (EBP)	(EBP) 56	(EBP) 94	(EBP) 84	(EBP) 82	(EBP) 120	(EBP) 100	(EBP) 161
Maximum Linear Excursion (Xmax)	(Xmax) 2.4mm	(Xmax) 4.4mm	(Xmax) 3.5mm	(Xmax) 3.2mm	(Xmax) 2.4mm	(Xmax) 4.8mm	(Xmax) 3.2mm
Surface Area of Cone (Sd)	(Sd) 519.5 cm2	(Sd) 538.9 cm2	(Sd) 532.4 cm2	(Sd) 532.4 cm2	(Sd) 519.5 cm2	(Sd) 506.7 cm2	(Sd) 519.5 cm2
Maximum Mechanical Limit (Xlim)	(Xlim) 6.6mm	(Xlim) 11mm	(Xlim) 10.4mm	(Xlim) 8mm	(Xlim) 9.9mm	(Xlim) 13.5mm	(Xlim) 11.5mm

MOUNTING INFORMATION

Recommended Enclosure Volume	ALPHA-12A	BETA-12A-2	BETA-12CX	BETA-12LTA	DELTA-12A	DELTA-12LFA	KAPPA-12A
Sealed	17-22.7 liters/0.6-0.8 cu.ft.	25.5-35.4 liters/0.9-1.25 cu.ft.	42.5-28 liters/1-1.5 cu.ft.	14-51 liters/0.5-1.8 cu.ft.	N/A	19.8-28 liters/0.7-1 cu.ft.	N/A
Vented	56.6-113.3 liters/2-4 cu.ft.	36.8-139 liters/1.3-4.9 cu.ft.	37-71 liters/1.3-2.5 cu.ft.	56.6-116 liters/2-4.1 cu.ft.	25.5-85 liters/0.9-3 cu.ft.	25.5-102 liters/0.9-3.6 cu.ft.	34-62 liters/1.2-2.2 cu.ft.
Driver Volume Displaced	108.9 cu.in. / 1.78 liters	122 cu.in. / 2 liters	122 cu.in. / 2 liters	122 cu.in. / 2 liters	137.3 cu.in. / 2.25 liters	137.3 cu.in. / 2.25 liters	155.5 cu.in. / 2.55 liters
Overall Diameter	12.26" / 311.4mm	12.03" / 305.5mm	12.03" / 305.5mm	12.03" / 305.5mm	12.03" / 305.5mm	12.03" / 305.5mm	12.26" / 311.4mm
Baffle Hole Diameter	11" / 279.5mm	10.95" / 278.1mm	10.95" / 278.1mm	10.95" / 278.1mm	10.95" / 278.1mm	10.95" / 278.1mm	11" / 279.5mm
Front Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard
Rear Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard
Mounting Holes Diameter	0.25" / 6.4mm	0.25" / 6.4mm	0.25" / 6.4mm	0.25" / 6.4mm	0.25" / 6.4mm	0.25" / 6.4mm	0.25" / 6.4mm
Mounting Holes B.C.D.	11.71" / 297.5mm	11.59" / 294.3mm	11.59" / 294.3mm	11.59" / 294.3mm	11.59" / 294.3mm	11.59" / 294.3mm	11.71" / 297.5mm
Depth	4.73" / 12mm	4.57" / 116mm	4.47" / 114mm	4.47" / 114mm	5.35" / 136mm	5.35" / 136mm	5.63" / 143mm
Net Weight	5.3 lbs. / 2.4 kg	7.5 lbs. / 3.4 kg	7.8 lbs. / 3.5 kg	8.1 lbs. / 3.7 kg	11.4 lbs. / 5.2 kg	11.8 lbs. / 5.4 kg	14.9 lbs. / 6.8 kg
Shipping Weight	7.4 lbs. / 3.4 kg	9.7 lbs. / 4.4 kg	1 lbs. / 4.5 kg	10.2 lbs. / 4.6 kg	13.5 lbs. / 6.1 kg	14 lbs / 6.4 kg	17.9 lbs. / 8.2 kg

* Please see "Understanding Loudspeaker Data" on page 54 for an explanation of Thiele-Small parameters.

AMERICAN STANDARD SERIES

THIELE & SMALL PARAMETERS*	ALPHA-15A 8 ohm	BETA-15A 8 ohm	DELTA-15A 8 or 16 ohm	DELTA-15LFA 8 ohm	GAMMA 15A-2 8 ohm	KAPPA-15A 8 or 4 ohm	KAPPA-15LFA 8 ohm
Resonant Frequency (fs)	(fs) 41Hz	(fs) 35Hz	(fs) 40Hz	(fs) 39Hz	(fs) 33Hz	(fs) 33Hz	(fs) 39Hz
DC Resistance (Re)	(Re) 5.88	(Re) 6.32	(Re) 6.30	(Re) 6.11	(Re) 5.98	(Re) 5.22	(Re) 5.40
Coil Inductance (Le)	(Le) 0.84mH	(Le) 1.10mH	(Le) 0.64mH	(Le) 1.37mH	(Le) 1.73mH	(Le) 1.05mH	(Le) 1.27mH
Mechanical Q (Qms)	(Qms) 7.23	(Qms) 8.10	(Qms) 8.05	(Qms) 6.30	(Qms) 5.13	(Qms) 8.90	(Qms) 6.08
Electromagnetic Q (Qes)	(Qes) 1.53	(Qes) 0.63	(Qes) 0.57	(Qes) 0.52	(Qes) 0.32	(Qes) 0.33	(Qes) 0.41
Total Q (Qts)	(Qts) 1.26	(Qts) 0.58	(Qts) 0.53	(Qts) 0.48	(Qts) 0.30	(Qts) 0.32	(Qts) 0.38
Compliance Equivalent Volume (Vas)	(Vas) 26 liters/9.2 cu.ft.	(Vas) 334.6 liters/11.8 cu.ft.	(Vas) 270.7 liters/9.56 cu.ft.	(Vas) 241 liters/8.51 cu.ft.	(Vas) 314.1 liters/11.1 cu.ft.	(Vas) 321.3 liters/11.35 cu.ft.	(Vas) 159 liters/5.6 cu.ft.
Peak Diaphragm Displacement Volume (Vd)	(Vd) 325cc	(Vd) 330cc	(Vd) 233cc	(Vd) 419cc	(Vd) 257cc	(Vd) 343cc	(Vd) 471cc
Mechanical Compliance of Suspension (Cms)	(Cms) 0.25mm/N	(Cms) 0.35mm/N	(Cms) 0.26mm/N	(Cms) 0.23mm/N	(Cms) 0.31mm/N	(Cms) 0.31mm/N	(Cms) 0.15mm/N
BL Product (BL)	(BL) 7.7 T-M	(BL) 11.5 T-M	(BL) 13.2 T-M	(BL) 14.6 T-M	(BL) 17.2 T-M	(BL) 15.7 T-M	(BL) 18.6 T-M
Diaphragm Mass Inc. Airload (Mms)	(Mms) 59 grams	(Mms) 6 grams	(Mms) 62 grams	(Mms) 75 grams	(Mms) 78 grams	(Mms) 76 grams	(Mms) 105 grams
Efficiency Bandwidth Product (EBP)	(EBP) 27	(EBP) 56	(EBP) 70	(EBP) 75	(EBP) 103	(EBP) 98	(EBP) 95
Maximum Linear Excursion (Xmax)	(Xmax) 3.8mm	(Xmax) 4mm	(Xmax) 2.7mm	(Xmax) 4.8mm	(Xmax) 3mm	(Xmax) 4mm	(Xmax) 5.5mm
Surface Area of Cone (Sd)	(Sd) 856.3 cm2	(Sd) 823.7 cm2	(Sd) 864.6 cm2	(Sd) 873 cm2	(Sd) 856.3 cm2	(Sd) 856.3 cm2	(Sd) 856.3 cm2
Maximum Mechanical Limit (Xlim)	(Xlim) 8.4mm	(Xlim) 11.6mm	(Xlim) 11.1mm	(Xlim) 16.5mm	(Xlim) 11.8mm	(Xlim) 11.6mm	(Xlim) 10.4mm

MOUNTING INFORMATION

Recommended Enclosure Volume	ALPHA-15A	BETA-15A	DELTA-15A	DELTA-15LFA	GAMMA 15A-2	KAPPA-15A	KAPPA-15LFA
Sealed	71-85 liters/2.5-3 cu.ft.	45-62 liters/1.6-2.2 cu.ft.	37-42.5 liters/1.3-1.5 cu.ft.	36.8-42.5 liters/1.3-1.5 cu.ft.	N/A	N/A	N/A
Vented	106-177 liters/3.75-6.25 cu.ft.	99-175.6 liters/3.5-6.2 cu.ft.	82-161.4 liters/2.9-5.7 cu.ft.	85-167 liters/3-5.9 cu.ft.	4-136 liters/1.4-4.8 cu.ft.	45-113 liters/1.6-4 cu.ft.	62-193 liters/2.2-6.8 cu.ft.
Driver Volume Displaced	195.9 cu.in. / 3.21 liters	203.3 cu.in. / 3.33 liters	220.8 cu.in. / 3.62 liters	220.8 cu.in. / 3.62 liters	220.8 cu.in. / 3.62 liters	239 cu.in. / 3.92 liters	251.7 cu.in. / 4.12 liters
Overall Diameter	15.15" / 384.8mm	15.15" / 384.8mm	15.15" / 384.8mm	15.15" / 384.8mm	15.15" / 384.8mm	15.16" / 384.9mm	15.16" / 384.9mm
Baffle Hole Diameter	13.77" / 349.6mm	13.77" / 349.6mm	13.77" / 349.6mm	13.77" / 349.6mm	13.77" / 349.6mm	13.77" / 349.6mm	13.77" / 349.6mm
Front Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard
Rear Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard
Mounting Holes Diameter	0.25" / 6.4mm	0.25" / 6.4mm	0.25" / 6.4mm	0.25" / 6.4mm	0.25" / 6.4mm	0.25" / 6.4mm	0.25" / 6.4mm
Mounting Holes B.C.D.	14.56" / 369.9mm	14.56" / 369.9mm	14.56" / 369.9mm	14.56" / 369.9mm	14.56" / 369.9mm	14.56" / 369.9mm	14.56" / 369.9mm
Depth	5.83" / 148mm	6.05" / 154mm	6.05" / 154mm	6.3" / 16mm	5.94" / 151mm	6.13" / 156mm	6.38" / 162mm
Net Weight	6.7 lbs. / 3 kg	8.8 lbs. / 4 kg	12.3 lbs. / 5.6 kg	12.8 lbs. / 5.8 kg	11.8 lbs. / 5.4 kg	17.6 lbs. / 8 kg	2 lbs. / 9.1 kg
Shipping Weight	8.8 lbs. / 4 kg	10.8 lbs. / 4.9 kg	14.4 lbs. / 6.5 kg	14.8 lbs. / 6.7 kg	14.1 lbs. / 6.4 kg	19.8 lbs. / 9 kg	22.3 lbs. / 10.1 kg

* Please see "Understanding Loudspeaker Data" on page 54 for an explanation of Thiele-Small parameters.

ACOUSTIC

SIGNATURE

THIELE & SMALL PARAMETERS*

	ACOUSTINATOR™ CX2008 8 ohm	ACOUSTINATOR™ NH2008 8 ohm	ACOUSTINATOR™ N2012 8 ohm	EJ1250 8 or 16 ohm
Resonant Frequency (fs)	(fs) 57Hz	(fs) 47Hz	(fs) 31Hz	(fs) 89.98Hz
DC Resistance (Re)	(Re) 5.40	(Re) 5.40	(Re) 7.03	(Re) 7.19
Coil Inductance (Le)	(Le) 0.62mH	(Le) 0.44mH	(Le) 0.59mH	(Le) 0.62mH
Mechanical Q (Qms)	(Qms) 9.80	(Qms) 6.50	(Qms) 12.92	(Qms) 12.41
Electromagnetic Q (Qes)	(Qes) 0.40	(Qes) 0.29	(Qes) 0.54	(Qes) 0.65
Total Q (Qts)	(Qts) 0.39	(Qts) 0.28	(Qts) 0.52	(Qts) 0.62
Compliance Equivalent Volume (Vas)	(Vas) 21.5 liters/0.76 cu.ft.	(Vas) 34 liters/1.19 cu.ft.	(Vas) 177 liters/6.25 cu.ft.	(Vas) 44.96 liters / 1.59 cu.ft.
Peak Diaphragm Displacement Volume (Vd)	(Vd) 64cc	(Vd) 76cc	(Vd) 203cc	(Vd) 62.34cc
Mechanical Compliance of Suspension (Cms)	(Cms) 0.33mm/N	(Cms) 0.5mm/N	(Cms) 0.46mm/N	(Cms) 0.12mm/N
BL Product (BL)	(BL) 10.7 T-M	(BL) 11.2 T-M	(BL) 12.1 T-M	(BL) 12.91 T-M
Diaphragm Mass Inc. Airload (Mms)	(Mms) 24 grams	(Mms) 23 grams	(Mms) 57 grams	(Mms) 26.55 grams
Efficiency Bandwidth Product (EBP)	(EBP) 143	(EBP) 162	(EBP) 57	(EBP) 139.05
Maximum Linear Excursion (Xmax)	(Xmax) 3mm	(Xmax) 3.5mm	(Xmax) 3.9mm	(Xmax) 1.20mm
Surface Area of Cone (Sd)	(Sd) 214.1 cm2	(Sd) 218.2 cm2	(Sd) 519.5 cm2	(Sd) 519.50 cm2
Maximum Mechanical Limit (Xlim)	(Xlim) 6mm	(Xlim) 8mm	(Xlim) 8mm	N/A

MOUNTING INFORMATION

Recommended Enclosure Volume	ACOUSTINATOR™ CX2008	ACOUSTINATOR™ NH2008	ACOUSTINATOR™ N2012	EJ1250
Sealed	11-14 liters/0.38-0.48 cu.ft.	8-9.3 liters/0.28-0.33 cu.ft.	28-5 liters/1-1.75 cu.ft.	Acceptable
Vented	11-31 liters/0.4-1.1 cu.ft.	12-25.5 liters/0.41-0.9 cu.ft.	59.5-85 liters/2.1-3 cu.ft.	Acceptable
Driver Volume Displaced	48.4 cu.in. / 0.79 liters	28.6 cu.in. / 0.47 liters	102.2 cu.in. / 1.67 liters	136.70 cu.in. / 2.24 liters
Overall Diameter	8.24" / 209.2mm	8.24" / 209.2mm	12.26" / 311.4mm	12.02" / 305.31mm
Baffle Hole Diameter	7.13" / 181mm	7.13" / 181mm	11" / 279.5mm	10.97" / 278.64mm
Front Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard
Rear Sealing Gasket	N/A	N/A	Fitted as standard	N/A
Mounting Holes Diameter	0.22" / 5.5mm	0.22" / 5.5mm	0.25" / 6.4mm	0.25" / 6.35mm
Mounting Holes B.C.D.	7.75" / 196.9mm	7.75" / 196.9mm	11.71" / 297.5mm	11.63" / 295.40mm
Depth	3.6" / 92mm	3.6" / 92mm	5.1" / 13mm	6.22" / 157.98mm
Net Weight	6.7 lbs. / 3 kg	3.2 lbs. / 1.5 kg	4.3 lbs. / 2 kg	8.50 lbs. / 3.86 kg
Shipping Weight	7.4 lbs. / 3.4 kg	3.9 lbs. / 1.8 kg	6 lbs. / 2.7 kg	11.10 lbs. / 5.00 kg

LEGEND SERIES

THIELE & SMALL PARAMETERS*

	LEGEND 1028K 8 ohm	LEGEND 1058 8 or 16 ohm	LEGEND 1218 8 ohm	LEGEND GB128 8 ohm	LEGEND V128 8 ohm	LEGEND 1258 8 ohm	LEGEND 1518 8 ohm
Resonant Frequency (fs)	(fs) 95Hz	(fs) 97Hz	(fs) 100Hz	(fs) 86Hz	(fs) 89Hz	(fs) 94Hz	(fs) 82Hz
DC Resistance (Re)	(Re) 5.80	(Re) 7.49	(Re) 6.95	(Re) 6.37	(Re) 6.37	(Re) 7.44	(Re) 7.16
Coil Inductance (Le)	(Le) 0.51mH	(Le) 0.56mH	(Le) 0.69mH	(Le) 0.64mH	(Le) 0.64mH	(Le) 0.70mH	(Le) 0.86mH
Mechanical Q (Qms)	(Qms) 17.96	(Qms) 17.78	(Qms) 15.51	(Qms) 19.54	(Qms) 11.98	(Qms) 6.15	(Qms) 10.12
Electromagnetic Q (Qes)	(Qes) 1.61	(Qes) 1.21	(Qes) 0.95	(Qes) 0.67	(Qes) 0.83	(Qes) 1.18	(Qes) 1.02
Total Q (Qts)	(Qts) 1.47	(Qts) 1.13	(Qts) 0.89	(Qts) 0.65	(Qts) 0.77	(Qts) 0.99	(Qts) 0.93
Compliance Equivalent Volume (Vas)	(Vas) 31.5 liters/1.1 cu.ft.	(Vas) 26.4 liters/0.9 cu.ft.	(Vas) 31.2 liters/1.1 cu.ft.	(Vas) 43.9 liters/1.6 cu.ft.	(Vas) 39.4 liters/1.4 cu.ft.	(Vas) 32.5 liters/1.2 cu.ft.	(Vas) 65.4 liters/2.3 cu.ft.
Peak Diaphragm Displacement Volume (Vd)	(Vd) 72cc	(Vd) 0cc	(Vd) 41cc	(Vd) 41cc	(Vd) 42cc	(Vd) 24cc	(Vd) 66cc
Mechanical Compliance of Suspension (Cms)	(Cms) 0.19mm/N	(Cms) 0.16mm/N	(Cms) 0.09mm/N	(Cms) 0.12mm/N	(Cms) 0.1mm/N	(Cms) 0.09mm/N	(Cms) 0.07mm/N
BL Product (BL)	(BL) 5.7 T-M	(BL) 8 T-M	(BL) 11.6 T-M	(BL) 12 T-M	(BL) 11.5 T-M	(BL) 10.9 T-M	(BL) 14.1 T-M
Diaphragm Mass Inc. Airload (Mms)	(Mms) 15 grams	(Mms) 17 grams	(Mms) 29 grams	(Mms) 28 grams	(Mms) 3 grams	(Mms) 32 grams	(Mms) 55 grams
Efficiency Bandwidth Product (EBP)	(EBP) 59	(EBP) 80	(EBP) 105	(EBP) 128	(EBP) 107	(EBP) 80	(EBP) 80
Maximum Linear Excursion (Xmax)	(Xmax) 2.1mm	(Xmax) mm	(Xmax) 0.8mm	(Xmax) 0.8mm	(Xmax) 0.8mm	(Xmax) 0.5mm	(Xmax) 0.8mm
Surface Area of Cone (Sd)	(Sd) 344.9 cm2	(Sd) 344.9 cm2	(Sd) 506.7 cm2	(Sd) 506.7 cm2	(Sd) 519.5 cm2	(Sd) 506.7 cm2	(Sd) 823.7 cm2
Maximum Mechanical Limit (Xlim)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

MOUNTING INFORMATION

Recommended Enclosure Volume	LEGEND 1028K	LEGEND 1058	LEGEND 1218	LEGEND GB128	LEGEND V128	LEGEND 1258	LEGEND 1518
Sealed	Acceptable	Acceptable	N/A	Acceptable	Acceptable	N/A	N/A
Vented	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable
Driver Volume Displaced	46.7 cu.in. / 0.77 liters	56.5 cu.in. / 0.93 liters	122 cu.in. / 2 liters	122 cu.in. / 2 liters	122 cu.in. / 2 liters	119.9 cu.in. / 1.96 liters	220.8 cu.in. / 3.62 liters
Overall Diameter	10.11" / 256.8mm	10.11" / 256.8mm	12.03" / 305.5mm	12.03" / 305.5mm	12.03" / 305.5mm	12.03" / 305.5mm	15.15" / 384.8mm
Baffle Hole Diameter	9.05" / 229.9mm	9.13" / 231.8mm	10.95" / 278.1mm	10.95" / 278.1mm	10.95" / 278.1mm	10.95" / 278.1mm	13.77" / 349.6mm
Front Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard
Rear Sealing Gasket	N/A	Fitted as standard	Fitted as standard	Fitted as standard	N/A	Fitted as standard	N/A
Mounting Holes Diameter	0.22" / 5.6mm	0.23" / 5.7mm	0.25" / 6.4mm	0.25" / 6.4mm	0.25" / 6.4mm	0.25" / 6.4mm	0.25" / 6.4mm
Mounting Holes B.C.D.	9.6" / 243.8mm	9.6" / 243.8mm	11.59" / 294.3mm	11.59" / 294.3mm	11.59" / 294.3mm	11.59" / 294.3mm	14.56" / 369.9mm
Depth	4.8" / 122mm	4.1" / 104mm	4.5" / 114mm	6.06" / 154mm	6.06" / 154mm	4.9" / 125mm	6.1" / 155mm
Net Weight	2.9 lbs. / 1.3 kg	4.4 lbs. / 2 kg	8.4 lbs. / 3.8 kg	8.1 lbs. / 3.7 kg	8.1 lbs. / 3.7 kg	7.8 lbs. / 3.5 kg	12.1 lbs. / 5.5 kg
Shipping Weight	4 lbs. / 1.8 kg	5.4 lbs. / 2.5 kg	10.6 lbs. / 4.8 kg	10.1 lbs. / 4.6 kg	10.1 lbs. / 4.6 kg	9.9 lbs. / 4.5 kg	14.1 lbs. / 6.4 kg

PATRIOT SERIES

THIELE & SMALL PARAMETERS*	THE COPPERHEAD™ 8 ohm	DELTA DEMON™ 8 ohm	LIL' BUDDY™ 8 ohm	RAGIN CAJUN™ 8 ohm	BLACK MOUNTAIN™ 8 ohm	BLACK POWDER™ 8 ohm	CANIS MAJOR™ 8 ohm
Resonant Frequency (fs)	(fs) 105Hz	(fs) 76Hz	(fs) 149Hz	(fs) 84Hz	(fs) 68.58Hz	(fs) 72Hz	(fs) 104.86Hz
DC Resistance (Re)	(Re) 7.59	(Re) 6.90	(Re) 6.31	(Re) 7.30	(Re) 6.44	(Re) 7.10	(Re) 6.45
Coil Inductance (Le)	(Le) 0.37mH	(Le) 0.66mH	(Le) 0.46mH	(Le) 0.39mH	(Le) 0.62mH	(Le) 0.37mH	(Le) 0.61mH
Mechanical Q (Qms)	(Qms) 13.27	(Qms) 15.06	(Qms) 9.06	(Qms) 10.80	(Qms) 8.13	(Qms) 14.98	(Qms) 10.16
Electromagnetic Q (Qes)	(Qes) 1.05	(Qes) 0.53	(Qes) 0.93	(Qes) 0.68	(Qes) 0.53	(Qes) 0.75	(Qes) 0.71
Total Q (Qts)	(Qts) 0.98	(Qts) 0.51	(Qts) 0.84	(Qts) 0.64	(Qts) 0.50	(Qts) 0.72	(Qts) 0.66
Compliance Equivalent Volume (Vas)	(Vas) 27 liters/1 cu.ft.	(Vas) 41.1 liters/1.5 cu.ft.	(Vas) 1 liters/0.35 cu.ft.	(Vas) 34.1 liters/1.2 cu.ft.	(Vas) 69.64 liters/2.46 cu.ft.	(Vas) 82.4 liters/2.9 cu.ft.	(Vas) 34.08 liters/1.2 cu.ft.
Peak Diaphragm Displacement Volume (Vd)	(Vd) 0cc	(Vd) 88cc	(Vd) 29cc	(Vd) 18cc	(Vd) 40cc	(Vd) 25cc	(Vd) 42cc
Mechanical Compliance of Suspension (Cms)	(Cms) 0.14mm/N	(Cms) 0.22mm/N	(Cms) 0.05mm/N	(Cms) 0.18mm/N	(Cms) 0.19mm/N	(Cms) 0.22mm/N	(Cms) 0.09mm/N
BL Product (BL)	(BL) 8.8 T-M	(BL) 11.3 T-M	(BL) 11.7 T-M	(BL) 11.5 T-M	(BL) 12.07 T-M	(BL) 9.9 T-M	(BL) 12.6 T-M
Diaphragm Mass Inc. Airload (Mms)	(Mms) 16 grams	(Mms) 21 grams	(Mms) 22 grams	(Mms) 2 grams	(Mms) 27.8 grams	(Mms) 23 grams	(Mms) 26.6 grams
Efficiency Bandwidth Product (EBP)	(EBP) 100	(EBP) 143	(EBP) 160	(EBP) 156	(EBP) 129.20	(EBP) 96	(EBP) 147.60
Maximum Linear Excursion (Xmax)	(Xmax) mm	(Xmax) 2.4mm	(Xmax) 0.8mm	(Xmax) 0.5mm	(Xmax) 0.8mm	(Xmax) 0.5mm	(Xmax) 0.8mm
Surface Area of Cone (Sd)	(Sd) 366.1 cm2	(Sd) 366.1 cm2	(Sd) 366.1 cm2	(Sd) 366.1 cm2	(Sd) 506.7 cm2	(Sd) 519.5 cm2	(Sd) 532.4 cm2
Maximum Mechanical Limit (Xlim)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

MOUNTING INFORMATION

Recommended Enclosure Volume	THE COPPERHEAD™	DELTA DEMON™	LIL' BUDDY™	RAGIN CAJUN™	BLACK MOUNTAIN™	BLACK POWDER™	CANIS MAJOR™
Sealed	Acceptable	Acceptable	N/A	Acceptable	Acceptable	N/A	Acceptable
Vented	Acceptable	N/A	Acceptable	Acceptable	N/A	Acceptable	Acceptable
Driver Volume Displaced	58.1 cu.in. / 0.95 liters	66.9 cu.in. / 1.1 liters	66.9 cu.in. / 1.1 liters	66.9 cu.in. / 1.1 liters	136.7 cu.in. / 2.24 liters	117.7 cu.in. / 1.93 liters	136.7 cu.in. / 2.24 liters
Overall Diameter	10.11" / 256.8mm	10.09" / 256.2mm	10.11" / 256.8mm	10.11" / 256.8mm	12.26" / 311.4mm	12.23" / 310.5mm	12.02" / 305.3mm
Baffle Hole Diameter	9.13" / 231.8mm	9.05" / 229.7mm	9.13" / 231.8mm	9.13" / 231.8mm	11.06" / 280.9mm	11.02" / 279.8mm	10.97" / 278.6mm
Front Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard
Rear Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard
Mounting Holes Diameter	0.23" / 5.7mm	0.25" / 6.4mm	0.23" / 5.7mm	0.23" / 5.7mm	0.25" / 6.4mm	0.25" / 6.4mm	0.25" / 6.4mm
Mounting Holes B.C.D.	9.6" / 243.8mm	9.66" / 245.4mm	9.6" / 243.8mm	9.6" / 243.8mm	11.71" / 297.4mm	11.67" / 296.4mm	11.63" / 295.4mm
Depth	4.2" / 107mm	3.8" / 97mm	4.3" / 109mm	4.3" / 109mm	5.95" / 151.1mm	4.6" / 117mm	6.2" / 157.5mm
Net Weight	4.5 lbs. / 2 kg	6.8 lbs. / 3.1 kg	6.3 lbs. / 2.9 kg	6.4 lbs. / 2.9 kg	8.9 lbs. / 4.04 kg	7 lbs. / 3.2 kg	9.3 lbs. / 4.2 kg
Shipping Weight	6.4 lbs. / 2.9 kg	8.5 lbs. / 3.9 kg	7.4 lbs. / 3.4 kg	8.2 lbs. / 3.7 kg	11.1 lbs. / 5 kg	9 lbs. / 4.1 kg	10.2 lbs. / 4.63 kg

PATRIOT SERIES

THIELE & SMALL PARAMETERS*	CANNABIS REX™ 8 or 16 ohm	COMMONWEALTH™ 12 8 ohm	LIL' TEXAS™ 8 or 16 ohm	MAVERICK™ 8 or 16 ohm MAX ATTENUATION	MAVERICK™ FULL OUTPUT	RED WHITE AND BLUES™ 8 ohm	SCREAMIN EAGLE™ 8 or 16 ohm
Resonant Frequency (fs)	(fs) 96Hz	(fs) 50Hz	(fs) 90Hz	(fs) 82.6Hz	(fs) 82.45Hz	(fs) 110Hz	(fs) 79Hz
DC Resistance (Re)	(Re) 6.56	(Re) 6.34	(Re) 7.20	(Re) 5.96	(Re) 5.99	(Re) 6.42	(Re) 6.84
Coil Inductance (Le)	(Le) 0.44mH	(Le) 0.46mH	(Le) 0.42mH	(Le) 0.38mH	(Le) 0.48mH	(Le) 0.43mH	(Le) 0.48mH
Mechanical Q (Qms)	(Qms) 9.28	(Qms) 6.61	(Qms) 11.29	(Qms) 16.26	(Qms) 16.77	(Qms) 7.19	(Qms) 15.95
Electromagnetic Q (Qes)	(Qes) 0.69	(Qes) 0.35	(Qes) 0.69	(Qes) 6.16	(Qes) 1.17	(Qes) 0.89	(Qes) 0.60
Total Q (Qts)	(Qts) 0.64	(Qts) 0.33	(Qts) 0.65	(Qts) 4.47	(Qts) 1.09	(Qts) 0.79	(Qts) 0.58
Compliance Equivalent Volume (Vas)	(Vas) 5 liters/1.8 cu.ft.	(Vas) 9 liters/3.2 cu.ft.	(Vas) 43 liters/1.53 cu.ft.	(Vas) 48.71 liters/1.72 cu.ft.	(Vas) 48.71 liters/1.72 cu.ft.	(Vas) 30.8 liters/1.1 cu.ft.	(Vas) 51.5 liters/1.8 cu.ft.
Peak Diaphragm Displacement Volume (Vd)	(Vd) 45cc	(Vd) 36cc	(Vd) 66cc	(Vd) 24.42cc	(Vd) 24.42cc	(Vd) 45cc	(Vd) 64cc
Mechanical Compliance of Suspension (Cms)	(Cms) 0.11mm/N	(Cms) 0.24mm/N	(Cms) 0.11mm/N	(Cms) 0.13mm/N	(Cms) 0.13mm/N	(Cms) 0.07mm/N	(Cms) 0.13mm/N
BL Product (BL)	(BL) 11.8 T-M	(BL) 15.7 T-M	(BL) 12.8 T-M	(BL) 3.76 T-M	(BL) 8.71 T-M	(BL) 12.3 T-M	(BL) 13.1 T-M
Diaphragm Mass Inc. Airload (Mms)	(Mms) 24 grams	(Mms) 43 grams	(Mms) 28 grams	(Mms) 28.2 grams	(Mms) 28.5 grams	(Mms) 3 grams	(Mms) 3 grams
Efficiency Bandwidth Product (EBP)	(EBP) 139	(EBP) 143	(EBP) 130	(EBP) 13.4	(EBP) 70.73	(EBP) 124	(EBP) 132
Maximum Linear Excursion (Xmax)	(Xmax) 0.8mm	(Xmax) 0.7mm	(Xmax) 1.3mm	(Xmax) 0.47mm	(Xmax) 0.47mm	(Xmax) 0.8mm	(Xmax) 1.2mm
Surface Area of Cone (Sd)	(Sd) 558.6 cm2	(Sd) 519.5 cm2	(Sd) 519.5 cm2	(Sd) 519.5 cm2	(Sd) 519.5 cm2	(Sd) 558.6 cm2	(Sd) 519.5 cm2
Maximum Mechanical Limit (Xlim)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

MOUNTING INFORMATION

Recommended Enclosure Volume	CANNABIS REX™	COMMONWEALTH™ 12	LIL' TEXAS™	MAVERICK™	MAVERICK™	RED WHITE AND BLUES™	SCREAMIN EAGLE™
Sealed	Acceptable	Acceptable	Acceptable	N/A	N/A	Acceptable	Acceptable
Vented	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable
Driver Volume Displaced	122 cu.in. / 2 liters	179.3 cu.in. / 2.94 liters	102.2 cu.in. / 1.67 liters	134.25 cu.in. / 2.2 liters	134.25 cu.in. / 2.2 liters	122 cu.in. / 2 liters	122 cu.in. / 2 liters
Overall Diameter	12.02" / 305.3mm	12.28" / 312mm	12.03" / 305.5mm	12.03" / 305.5mm	12.03" / 305.5mm	12.02" / 305.3mm	12.02" / 305.3mm
Baffle Hole Diameter	10.97" / 278.6mm	11.08" / 281.3mm	10.95" / 278.1mm	10.95" / 278.1mm	10.95" / 278.1mm	10.97" / 278.6mm	10.97" / 278.6mm
Front Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as Standard	Fitted as Standard	Fitted as standard	Fitted as standard
Rear Sealing Gasket	Fitted as standard	N/A	Fitted as standard	Fitted as Standard	Fitted as Standard	Fitted as standard	Fitted as standard
Mounting Holes Diameter	0.25" / 6.4mm	0.27" / 6.8mm	0.25" / 6.4mm	0.25" / 6.4mm	0.25" / 6.4mm	0.25" / 6.4mm	0.25" / 6.4mm
Mounting Holes B.C.D.	11.63" / 295.4mm	11.69" / 297mm	11.59" / 294.3mm	11.59" / 294.3mm	11.59" / 294.3mm	11.63" / 295.4mm	11.63" / 295.4mm
Depth	5.1" / 13mm	5" / 127mm	5.07" / 129mm	6.56" / 166.6mm	6.56" / 166.6mm	5.1" / 13mm	5.1" / 13mm
Net Weight	8.2 lbs. / 3.7 kg	21.5 lbs. / 9.8 kg	4.1 lbs. / 1.9 kg	7.8 lbs. / 3.54 kg	7.8 lbs. / 3.54 kg	8.2 lbs. / 3.7 kg	8.3 lbs. / 3.8 kg
Shipping Weight	9.8 lbs. / 4.5 kg	23.2 lbs. / 10.5 kg	5.8 lbs. / 2.6 kg	9.7 lbs. / 4.39 kg	9.7 lbs. / 4.39 kg	10.1 lbs. / 4.6 kg	10.2 lbs. / 4.7 kg

PATRIOT SERIES

RED COAT SERIES

THIELE & SMALL PARAMETERS*

	SWAMP THANG™ 8 or 16 ohm	TEXAS HEAT™ 8, 4 or 16 ohm	COMMONWEALTH™ 15 4 ohm	EPS-15C 4 ohm	RAMROD™ 8 ohm	RED FANG™ 10 8 ohm	THE GOVERNOR™ 8 or 16 ohm
Resonant Frequency (fs)	(fs) 97Hz	(fs) 79Hz	(fs) 52Hz	(fs) 42Hz	(fs) 101Hz	(fs) 111Hz	(fs) 101Hz
DC Resistance (Re)	(Re) 6.92	(Re) 7.30	(Re) 3.72	(Re) 3.57	(Re) 7.30	(Re) 5.80	(Re) 6.81
Coil Inductance (Le)	(Le) 0.42mH	(Le) 0.54mH	(Le) 0.22mH	(Le) 0.53mH	(Le) 0.39mH	(Le) 0.55mH	(Le) 0.41mH
Mechanical Q (Qms)	(Qms) 14.43	(Qms) 13.88	(Qms) 6.75	(Qms) 14.41	(Qms) 10.80	(Qms) 12.64	(Qms) 11.41
Electromagnetic Q (Qes)	(Qes) 0.55	(Qes) 0.68	(Qes) 0.57	(Qes) 0.32	(Qes) 0.68	(Qes) 0.50	(Qes) 0.59
Total Q (Qts)	(Qts) 0.53	(Qts) 0.65	(Qts) 0.53	(Qts) 0.31	(Qts) 0.64	(Qts) 0.48	(Qts) 0.56
Compliance Equivalent Volume (Vas)	(Vas) 41.3 liters/1.5 cu.ft.	(Vas) 50.9 liters/1.8 cu.ft.	(Vas) 163 liters/5.8 cu.ft.	(Vas) 188.4 liters/6.65 cu.ft.	(Vas) 24.6 liters/0.9 cu.ft.	(Vas) 21.3 liters/0.75 cu.ft.	(Vas) 30.1 liters/1.1 cu.ft.
Peak Diaphragm Displacement Volume (Vd)	(Vd) 43cc	(Vd) 42cc	(Vd) 29cc	(Vd) 285.30cc	(Vd) 18cc	(Vd) 17cc	(Vd) 64cc
Mechanical Compliance of Suspension (Cms)	(Cms) 0.1mm/N	(Cms) 0.13mm/N	(Cms) 0.15mm/N	(Cms) 0.18mm/N	(Cms) 0.13mm/N	(Cms) 0.11mm/N	(Cms) 0.08mm/N
BL Product (BL)	(BL) 14.2 T-M	(BL) 12.8 T-M	(BL) 11.8 T-M	(BL) 15.28 T-M	(BL) 11.5 T-M	(BL) 12.1 T-M	(BL) 15.3 T-M
Diaphragm Mass Inc. Airload (Mms)	(Mms) 26 grams	(Mms) 31 grams	(Mms) 65 grams	(Mms) 79.9 grams	(Mms) 19 grams	(Mms) 18 grams	(Mms) 32 grams
Efficiency Bandwidth Product (EBP)	(EBP) 177	(EBP) 116	(EBP) 91	(EBP) 130	(EBP) 149	(EBP) 223	(EBP) 171
Maximum Linear Excursion (Xmax)	(Xmax) 0.8mm	(Xmax) 0.8mm	(Xmax) 0.3mm	(Xmax) 3.3mm	(Xmax) 0.5mm	(Xmax) 0.47mm	(Xmax) 1.2mm
Surface Area of Cone (Sd)	(Sd) 532.4 cm2	(Sd) 519.5 cm2	(Sd) 889.6 cm2	(Sd) 864.6 cm2	(Sd) 366.1 cm2	(Sd) 366.1 cm2	(Sd) 519.5 cm2
Maximum Mechanical Limit (Xlim)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

MOUNTING INFORMATION

Recommended Enclosure Volume	SWAMP THANG™	TEXAS HEAT™	COMMONWEALTH™ 15	EPS-15C	RAMROD™	RED FANG™ 10	THE GOVERNOR™
Sealed	Acceptable	Acceptable	Acceptable	N/A	Acceptable	Acceptable	Acceptable
Vented	Acceptable	Acceptable	Acceptable	56.63-113.27 liters/2-4 cu.ft.	Acceptable	Acceptable	Acceptable
Driver Volume Displaced	137.3 cu.in. / 2.25 liters	122 cu.in. / 2 liters	262.8 cu.in. / 4.31 liters	155.2 cu.in. / 2.54 liters	66.9 cu.in. / 1.1 liters	86 cu.in. / 1.41 liters	137.3 cu.in. / 2.25 liters
Overall Diameter	12.01" / 305.1mm	12.02" / 305.3mm	15.28" / 388mm	15.32" / 389.1mm	10.11" / 256.8mm	10.11" / 256.8mm	12.02" / 305.3mm
Baffle Hole Diameter	10.95" / 278.1mm	10.97" / 278.6mm	14.06" / 357mm	14.03" / 356.4mm	9.13" / 231.8mm	9.13" / 231.9mm	10.97" / 278.6mm
Front Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as Standard	Fitted as standard	Fitted as standard	Fitted as standard
Rear Sealing Gasket	Fitted as standard	Fitted as standard	N/A	Fitted as Standard	Fitted as standard	Fitted as standard	Fitted as standard
Mounting Holes Diameter	0.25" / 6.4mm	0.25" / 6.4mm	0.26" / 6.5mm	0.28" / 7mm	0.23" / 5.7mm	0.23" / 5.8mm	0.25" / 6.4mm
Mounting Holes B.C.D.	11.63" / 295.4mm	11.63" / 295.4mm	14.57" / 37mm	14.56" / 369.8mm	9.6" / 243.8mm	9.6" / 243.8mm	11.63" / 295.4mm
Depth	5.2" / 132mm	5.1" / 13mm	6" / 152mm	6.81" / 173mm	4.3" / 109mm	5.2" / 132mm	5.2" / 132mm
Net Weight	11.1 lbs. / 5 kg	8.3 lbs. / 3.8 kg	22.6 lbs. / 10.3 kg	7.9 lbs. / 3.58 kg	5.4 lbs. / 2.5 kg	7.7 lbs. / 3.5 kg	10.8 lbs. / 4.9 kg
Shipping Weight	12.8 lbs. / 5.8 kg	1 lbs. / 4.5 kg	24.8 lbs. / 11.3 kg	10.1 lbs. / 4.58 kg	8.3 lbs. / 3.8 kg	8.5 lbs. / 3.9 kg	12.6 lbs. / 5.7 kg

RED COAT SERIES

THIELE & SMALL PARAMETERS*

	MAN O WAR™ 8 or 16 ohm	PRIVATE JACK™ 8 or 16 ohm	REIGNMAKER™ MAX ATTENUATION 8 or 16 ohm	REIGNMAKER™ FULL OUTPUT	RED FANG™ 8 or 16 ohm	THE TONESPOTTER™ 8 ohm	THE TONKER™ 8 or 16 ohm
Resonant Frequency (fs)	(fs) 91Hz	(fs) 96Hz	(fs) 91.25Hz	(fs) 91Hz	(fs) 97Hz	(fs) 88Hz	(fs) 89Hz
DC Resistance (Re)	(Re) 6.20	(Re) 7.01	(Re) 5.94	(Re) 5.98	(Re) 5.72	(Re) 6.76	(Re) 7.36
Coil Inductance (Le)	(Le) 0.43mH	(Le) 0.49mH	(Le) 0.44mH	(Le) 0.50mH	(Le) 0.39mH	(Le) 0.47mH	(Le) 0.47mH
Mechanical Q (Qms)	(Qms) 11.66	(Qms) 18.19	(Qms) 16.82	(Qms) 20.19	(Qms) 13.39	(Qms) 10.04	(Qms) 10.02
Electromagnetic Q (Qes)	(Qes) 0.72	(Qes) 0.72	(Qes) 7.84	(Qes) 1.37	(Qes) 0.74	(Qes) 0.73	(Qes) 0.49
Total Q (Qts)	(Qts) 0.68	(Qts) 0.69	(Qts) 5.35	(Qts) 1.29	(Qts) 0.70	(Qts) 0.68	(Qts) 0.47
Compliance Equivalent Volume (Vas)	(Vas) 38 liters/1.3 cu.ft.	(Vas) 33.7 liters/1.2 cu.ft.	(Vas) 37.47 liters/1.32 cu.ft.	(Vas) 37.47 liters/1.32 cu.ft.	(Vas) 39.4 liters/1.4 cu.ft.	(Vas) 39.7 liters/1.4 cu.ft.	(Vas) 34.1 liters/1.2 cu.ft.
Peak Diaphragm Displacement Volume (Vd)	(Vd) 42cc	(Vd) 64cc	(Vd) 24.42cc	(Vd) 24.42cc	(Vd) 25cc	(Vd) 64cc	(Vd) 42cc
Mechanical Compliance of Suspension (Cms)	(Cms) 0.1mm/N	(Cms) 0.09mm/N	(Cms) 0.1mm/N	(Cms) 0.1mm/N	(Cms) 0.1mm/N	(Cms) 0.1mm/N	(Cms) 0.09mm/N
BL Product (BL)	(BL) 12.3 T-M	(BL) 13.5 T-M	(BL) 3.62 T-M	(BL) 8.74 T-M	(BL) 11.1 T-M	(BL) 12.7 T-M	(BL) 17.4 T-M
Diaphragm Mass Inc. Airload (Mms)	(Mms) 31 grams	(Mms) 31 grams	(Mms) 30.15 grams	(Mms) 30.65 grams	(Mms) 26 grams	(Mms) 32 grams	(Mms) 36 grams
Efficiency Bandwidth Product (EBP)	(EBP) 127	(EBP) 134	(EBP) 11.65	(EBP) 66.31	(EBP) 131	(EBP) 120	(EBP) 181
Maximum Linear Excursion (Xmax)	(Xmax) 0.8mm	(Xmax) 1.2mm	(Xmax) 0.47mm	(Xmax) 0.47mm	(Xmax) 0.5mm	(Xmax) 1.2mm	(Xmax) 0.8mm
Surface Area of Cone (Sd)	(Sd) 519.5 cm2	(Sd) 519.5 cm2	(Sd) 519.5 cm2	(Sd) 519.5 cm2	(Sd) 519.5 cm2	(Sd) 519.5 cm2	(Sd) 519.5 cm2
Maximum Mechanical Limit (Xlim)	N/A	N/A	N/A	N/A	N/A	N/A	(Xlim) mm

MOUNTING INFORMATION

Recommended Enclosure Volume	MAN O WAR™	PRIVATE JACK™	REIGNMAKER™	REIGNMAKER™	RED FANG™	THE TONESPOTTER™	THE TONKER™
Sealed	Acceptable	Acceptable	N/A	N/A	Acceptable	Acceptable	Acceptable
Vented	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable
Driver Volume Displaced	122 cu.in. / 2 liters	122 cu.in. / 2 liters	134.25 cu.in. / 2.2 liters	134.25 cu.in. / 2.2 liters	136.7 cu.in. / 2.24 liters	122 cu.in. / 2 liters	137.3 cu.in. / 2.25 liters
Overall Diameter	12.02" / 305.3mm	12.02" / 305.3mm	12.03" / 305.5mm	12.03" / 305.5mm	12.02" / 305.3mm	12.02" / 305.3mm	12.02" / 305.3mm
Baffle Hole Diameter	10.97" / 278.6mm	10.97" / 278.6mm	10.95" / 278.1mm	10.95" / 278.1mm	10.97" / 278.6mm	10.97" / 278.6mm	10.97" / 278.6mm
Front Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as Standard	Fitted as Standard	Fitted as standard	Fitted as standard	Fitted as standard
Rear Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as Standard	Fitted as Standard	Fitted as standard	Fitted as standard	Fitted as standard
Mounting Holes Diameter	0.25" / 6.4mm	0.25" / 6.4mm	0.25" / 6.4mm	0.25" / 6.4mm	0.25" / 6.4mm	0.25" / 6.4mm	0.25" / 6.4mm
Mounting Holes B.C.D.	11.63" / 295.4mm	11.63" / 295.4mm	11.59" / 294.3mm	11.59" / 294.3mm	11.63" / 295.4mm	11.63" / 295.4mm	11.63" / 295.4mm
Depth	5.2" / 132mm	5.1" / 13mm	6.56" / 166.6mm	6.56" / 166.6mm	6.2" / 158mm	5.1" / 13mm	5.2" / 132mm
Net Weight	8.1 lbs. / 3.7 kg	8 lbs. / 3.6 kg	7.8 lbs. / 3.54 kg	7.8 lbs. / 3.54 kg	9.3 lbs. / 4.2 kg	8 lbs. / 3.6 kg	11.1 lbs. / 5 kg
Shipping Weight	9.9 lbs. / 4.5 kg	9.8 lbs. / 4.5 kg	9.7 lbs. / 4.39 kg	9.7 lbs. / 4.39 kg	11.1 lbs. / 5 kg	9.8 lbs. / 4.5 kg	13.2 lbs. / 6 kg

RED COAT SERIES

BASS GUITAR

THIELE & SMALL PARAMETERS*

	TONKERLITE™ 8 or 16 ohm	THE WIZARD™ 8 ohm	BIG BEN 8 ohm	BASSLITE® CA2010 8 ohm	BASSLITE® CH2010 8 ohm	BASSLITE® S2010 8 ohm	LEGEND B102 8 ohm
Resonant Frequency (fs)	(fs) 109Hz	(fs) 89Hz	(fs) 85Hz	(fs) 51Hz	(fs) 58Hz	(fs) 46Hz	(fs) 48Hz
DC Resistance (Re)	(Re) 7.20	(Re) 6.13	(Re) 6.06	(Re) 5.46	(Re) 5.37	(Re) 5.02	(Re) 6.89
Coil Inductance (Le)	(Le) 0.42mH	(Le) 0.38mH	(Le) 0.51mH	(Le) 0.55mH	(Le) 0.52mH	(Le) 0.47mH	(Le) 0.67mH
Mechanical Q (Qms)	(Qms) 12.58	(Qms) 11.48	(Qms) 10.63	(Qms) 17.50	(Qms) 6.50	(Qms) 4.16	(Qms) 5.31
Electromagnetic Q (Qes)	(Qes) 0.85	(Qes) 0.49	(Qes) 1.04	(Qes) 0.52	(Qes) 0.47	(Qes) 0.34	(Qes) 0.42
Total Q (Qts)	(Qts) 0.80	(Qts) 0.47	(Qts) 0.94	(Qts) 0.51	(Qts) 0.44	(Qts) 0.31	(Qts) 0.39
Compliance Equivalent Volume (Vas)	(Vas) 27.4 liters/1 cu.ft.	(Vas) 41.5 liters/1.5 cu.ft.	(Vas) 77.7 liters/2.74 cu.ft.	(Vas) 49 liters/1.7 cu.ft.	(Vas) 43 liters/1.5 cu.ft.	(Vas) 63.4 liters/2.2 cu.ft.	(Vas) 65 liters/2.3 cu.ft.
Peak Diaphragm Displacement Volume (Vd)	(Vd) 61cc	(Vd) 42cc	(Vd) 0cc	(Vd) 126cc	(Vd) 120cc	(Vd) 140cc	(Vd) 104cc
Mechanical Compliance of Suspension (Cms)	(Cms) 0.07mm/N	(Cms) 0.11mm/N	(Cms) 0.08mm/N	(Cms) 0.27mm/N	(Cms) 0.26mm/N	(Cms) 0.36mm/N	(Cms) 0.4mm/N
BL Product (BL)	(BL) 13.1 T-M	(BL) 14.4 T-M	(BL) 12.1 T-M	(BL) 11.2 T-M	(BL) 11.1 T-M	(BL) 11.9 T-M	(BL) 11.8 T-M
Diaphragm Mass Inc. Airload (Mms)	(Mms) 3 grams	(Mms) 3 grams	(Mms) 47 grams	(Mms) 37 grams	(Mms) 3 grams	(Mms) 33 grams	(Mms) 28 grams
Efficiency Bandwidth Product (EBP)	(EBP) 129	(EBP) 181	(EBP) 82	(EBP) 98	(EBP) 123	(EBP) 135	(EBP) 113
Maximum Linear Excursion (Xmax)	(Xmax) 1.2mm	(Xmax) 0.8mm	(Xmax) mm	(Xmax) 3.5mm	(Xmax) 3.5mm	(Xmax) 4mm	(Xmax) 3mm
Surface Area of Cone (Sd)	(Sd) 519.5 cm2	(Sd) 519.5 cm2	(Sd) 856.3 cm2	(Sd) 360.7 cm2	(Sd) 344.9 cm2	(Sd) 350.1 cm2	(Sd) 344.9 cm2
Maximum Mechanical Limit (Xlim)	N/A	N/A	N/A	(Xlim) 7mm	(Xlim) 7.5mm	(Xlim) 8mm	(Xlim) 8mm

MOUNTING INFORMATION

Recommended Enclosure Volume	TONKERLITE™	THE WIZARD™	BIG BEN	BASSLITE® CA2010	BASSLITE® CH2010	BASSLITE® S2010	LEGEND B102
Sealed	Acceptable	Acceptable	N/A	17-23 liters/0.6-0.8 cu.ft.	N/A	N/A	N/A
Vented	Acceptable	N/A	Acceptable	23-54 liters/0.8-1.9 cu.ft.	17-51 liters/0.6-1.8 cu.ft.	2-51 liters/0.7-1.8 cu.ft.	18-85 liters/0.63-3 cu.ft.
Driver Volume Displaced	102.2 cu.in. / 1.67 liters	137.3 cu.in. / 2.25 liters	220.8 cu.in. / 3.62 liters	48.5 cu.in. / 0.79 liters	48.5 cu.in. / 0.79 liters	51.4 cu.in. / 0.84 liters	81.1 cu.in. / 1.33 liters
Overall Diameter	12.02" / 305.3mm	12.02" / 305.3mm	15.13" / 384.2mm	10.25" / 260.4mm	10.25" / 260.4mm	10.08" / 256.1mm	10.25" / 260.4mm
Baffle Hole Diameter	10.97" / 278.6mm	10.97" / 278.6mm	13.8" / 350.5mm	9.13" / 231.9mm	9.13" / 231.9mm	9.05" / 229.9mm	9.13" / 231.8mm
Front Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard
Rear Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	N/A	Fitted as standard
Mounting Holes Diameter	0.25" / 6.4mm	0.25" / 6.4mm	0.25" / 6.4mm	0.28" / 7mm	0.28" / 7mm	0.25" / 6.4mm	0.28" / 7.1mm
Mounting Holes B.C.D.	11.63" / 295.4mm	11.63" / 295.4mm	14.56" / 369.9mm	9.73" / 247.1mm	9.73" / 247.1mm	9.66" / 245.4mm	9.63" / 244.5mm
Depth	5.1" / 129mm	5.2" / 132mm	6.1" / 155mm	4.75" / 121mm	4.75" / 121mm	4.25" / 108mm	4.33" / 11mm
Net Weight	4.1 lbs. / 1.9 kg	11.1 lbs. / 4.9 kg	12.6 lbs. / 5.7 kg	3.6 lbs. / 1.6 kg	3.6 lbs. / 1.6 kg	3.5 lbs. / 1.6 kg	9.7 lbs. / 4.4 kg
Shipping Weight	5.8 lbs. / 2.6 kg	12.5 lbs. / 5.7 kg	14.9 lbs. / 6.8 kg	4.7 lbs. / 2.1 kg	4.7 lbs. / 2.1 kg	4.6 lbs. / 2.1 kg	10.9 lbs. / 4.9 kg

* Please see "Understanding Loudspeaker Data" on page 54 for an explanation of Thiele-Small parameters.

BASS GUITAR

THIELE & SMALL PARAMETERS*

	LEGEND BP102 8 or 4 ohm	LEGEND B810 32 ohm	BASSLITE® S2012 8 ohm	BASSLITE® C2515 4 ohm	LEGEND CA154 4 ohm	LEGEND CB158 8 ohm
Resonant Frequency (fs)	(fs) 35Hz	(fs) 52.07Hz	(fs) 48Hz	(fs) 38Hz	(fs) 51Hz	(fs) 34Hz
DC Resistance (Re)	(Re) 5.59	(Re) 27.50	(Re) 5.10	(Re) 3.72	(Re) 2.90	(Re) 6.15
Coil Inductance (Le)	(Le) 0.83mH	(Le) 2.72mH	(Le) 0.43mH	(Le) 0.39mH	(Le) 0.80mH	(Le) 0.33mH
Mechanical Q (Qms)	(Qms) 5.36	(Qms) 13.91	(Qms) 5.50	(Qms) 4.70	(Qms) 4.94	(Qms) 5.90
Electromagnetic Q (Qes)	(Qes) 0.47	(Qes) 0.68	(Qes) 0.53	(Qes) 0.50	(Qes) 0.54	(Qes) 0.36
Total Q (Qts)	(Qts) 0.43	(Qts) 0.65	(Qts) 0.48	(Qts) 0.45	(Qts) 0.49	(Qts) 0.34
Compliance Equivalent Volume (Vas)	(Vas) 91.2 liters/3.2 cu.ft.	(Vas) 66.4 liters/2.34 cu.ft.	(Vas) 91 liters/3.2 cu.ft.	(Vas) 26 liters/9.2 cu.ft.	(Vas) 108.2 liters/3.82 cu.ft.	(Vas) 336 liters/11.9 cu.ft.
Peak Diaphragm Displacement Volume (Vd)	(Vd) 207cc	(Vd) 165.20cc	(Vd) 270cc	(Vd) 381cc	(Vd) 412cc	(Vd) 411cc
Mechanical Compliance of Suspension (Cms)	(Cms) 0.54mm/N	(Cms) 0.39mm/N	(Cms) 0.24mm/N	(Cms) 0.26mm/N	(Cms) 0.11mm/N	(Cms) 0.31mm/N
BL Product (BL)	(BL) 1 T-M	(BL) 17.8 T-M	(BL) 11.7 T-M	(BL) 11.1 T-M	(BL) 12.2 T-M	(BL) 16 T-M
Diaphragm Mass Inc. Airload (Mms)	(Mms) 38 grams	(Mms) 23.8 grams	(Mms) 46 grams	(Mms) 7 grams	(Mms) 87 grams	(Mms) 7 grams
Efficiency Bandwidth Product (EBP)	(EBP) 75	(EBP) 76.80	(EBP) 91	(EBP) 76	(EBP) 94	(EBP) 95
Maximum Linear Excursion (Xmax)	(Xmax) 6.2mm	(Xmax) 4.7mm	(Xmax) 5.2mm	(Xmax) 4.5mm	(Xmax) 5mm	(Xmax) 4.8mm
Surface Area of Cone (Sd)	(Sd) 334.5 cm2	(Sd) 350.1 cm2	(Sd) 519.5 cm2	(Sd) 856 cm2	(Sd) 823.7 cm2	(Sd) 856.3 cm2
Maximum Mechanical Limit (Xlim)	(Xlim) 1mm	(Xlim) 9.5mm	(Xlim) 9.8mm	(Xlim) 8.5mm	(Xlim) 8mm	(Xlim) 9.5mm

MOUNTING INFORMATION

Recommended Enclosure Volume	LEGEND BP102	LEGEND B810	BASSLITE® S2012	BASSLITE® C2515	LEGEND CA154	LEGEND CB158
Sealed	14-28 liters/0.5-1 cu.ft.	14-35 liters/0.5-1.3 cu.ft.	31-35 liters/1.1-1.3 cu.ft.	45-82 liters/1.6-2.9 cu.ft.	40-71 liters/1.4-2.5 cu.ft.	54-65 liters/1.9-2.3 cu.ft.
Vented	25.5-62 liters/0.9-2.2 cu.ft.	45.76-76 liters/1.6-2.7 cu.ft.	42.5-85 liters/1.5-3 cu.ft.	85-119 liters/3-4.2 cu.ft.	45-17 liters/1.6-6 cu.ft.	54-159 liters/1.9-5.6 cu.ft.
Driver Volume Displaced	71.3 cu.in. / 1.17 liters	66.9 cu.in. / 1.1 liters	102.2 cu.in. / 1.67 liters	145.1 cu.in. / 2.38 liters	220.8 cu.in. / 3.62 liters	239 cu.in. / 3.92 liters
Overall Diameter	10.08" / 256.1mm	10.11" / 256.8mm	12.03" / 305.5mm	15.32" / 389.1mm	15.15" / 384.8mm	15.21" / 386.4mm
Baffle Hole Diameter	9.05" / 229.7mm	9.13" / 231.9mm	10.95" / 278.1mm	14" / 355.6mm	13.87" / 352.3mm	14" / 355.3mm
Front Sealing Gasket	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard	Fitted as standard
Rear Sealing Gasket	Fitted as standard	Fitted as standard	N/A	Fitted as standard	N/A	Fitted as standard
Mounting Holes Diameter	0.25" / 6.4mm	0.23" / 5.7mm	0.25" / 6.4mm	0.28" / 7mm	0.25" / 6.4mm	0.28" / 7.1mm
Mounting Holes B.C.D.	9.66" / 245.4mm	9.6" / 243.8mm	11.59" / 294.3mm	14.56" / 369.9mm	14.56" / 369.8mm	14.56" / 369.9mm
Depth	4.25" / 108mm	4.08" / 103.6mm	5.1" / 13mm	6.9" / 175mm	6.25" / 159mm	6.5" / 165mm
Net Weight	8.9 lbs. / 4 kg	6.7 lbs. / 3.04 kg	4.1 lbs. / 1.9 kg	5.7 lbs. / 2.6 kg	11.9 lbs. / 5.4 kg	17.3 lbs. / 7.9 kg
Shipping Weight	9.1 lbs. / 4.1 kg	7.9 lbs. / 3.6 kg	5.8 lbs. / 2.6 kg	7.9 lbs. / 3.6 kg	14.1 lbs. / 6.4 kg	19.4 lbs. / 8.8 kg

* Please see "Understanding Loudspeaker Data" on page 54 for an explanation of Thiele-Small parameters.



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