LOOK INSIDE

If you take a look inside a professional audio enclosure or musical instrument amplifier it’s likely you’ll find a high-quality component made by Eminence. We’ve spent over 50 years collaborating with audio engineers from the world’s most recognized brands, and we’ve gained a wealth of knowledge along the way. The result is a complete line of replacement and upgrade loudspeakers and high-frequency drivers for virtually any OEM, DIY or repair project. So take a look inside our catalog and see why countless audio enthusiasts and musicians in over 90 countries across the world choose Eminence.

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FROM VINTAGE TO MODERN
AND QUIVERS NETWORKS

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.

CUTTING-EDGE TECHNOLOGY
Offering you the tools to build optimized enclosures.

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

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

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

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

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

CUSTOM SHOP SERVICE
Through the Eminence Custom Shop we can create alternate impedances of existing stock models, and can even revive an older discontinued model. We also offer a guitar speaker break-in service to loosen up the soft parts and get to tone nirvana faster.

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

WE’RE ON THE OMACRO AND QUIVERS NETWORKS*
With Quivers, consumers can make purchases directly from our Eminence.com website. As a dealer you’ll be able to fulfill these orders and get the sale. We can also send users directly to our product listing on your website with the Omacro “Buy it Now” option. All you have to do is have the item in stock!

*Availability of the Quivers and Omacro networks may vary outside the United States.
**Cannabis Rex 10**
A highly requested 10" version of our popular Cannabis Rex, this hemp cone speaker offers warm, smooth, clean, and full tone, but with high-end definition — just like its big brother. Great to tame a bright amp and/or guitar.

Page 114

**New Waveguides and Horn Adapters**
Three new waveguides offer wide horizontal high-frequency coverage in tight fitting line array or conventional enclosure designs. Now you can mix and match your favorite built-in compression drivers and horns more easily with two new high-quality aluminum adapters from Eminence. The HA14-2 mates a 1.4" horn or driver with a 2" device, or choose the HA11-14 to pair a 1" horn or driver with a 1.4" device.

Waveguide Horns / Page 88
Horn Adapters / Page 89

**Alpha 2 and Alpha 5**
Two new additions to the American Standard series offer unmistakable performance with an emphasis on value.

Page 51

**New Tweeter Options**
Designed to deliver big performance in very limited spaces, the APT:30 supertweeter and SD28 soft dome tweeter can go where other devices simply can’t.

Page 87

**F151M-8 Ring Radiator**
A ferrite version of the popular N151M-8 neodymium model, the F151M-8 offers lower distortion, smoother frequency response, and increased sensitivity as compared to conventional ring radiator designs.

Page 83

**PXB:1K8 Crossover**
New to the Eminence PXB crossover family is the PXB:1K8. Featuring advanced circuit design to protect your system components, this 8 ohm high-pass filter’s crossover frequency is 1.8 kHz. Pair it with the N151M-8 or F151M-8 ring radiator compression driver in your next project.

Page 90

**Legend EM12N**
Rated at 200 watts, the neodymium EM12N delivers the same neutral tone as the ferrite version so you can hear more of your guitar and amp, but with even tighter, more responsive and dynamic characteristics.

Page 105

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Waveguide Horns / Page 88
Horn Adapters / Page 89

**Wheelhouse 200**
A 15" version of our 12" Wheelhouse 150. Touch-sensitive and balanced, the WheelHouse delivers warm, smooth tone throughout the entire spectrum, allowing you to utilize your amp controls to shape your sound. It handles pedals and amp EQ with ease.

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**2018 New Products**
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<th>MODEL</th>
<th>PROGRAM POWER</th>
<th>VOICE COIL</th>
<th>SPL</th>
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<th>FS</th>
<th>QT</th>
<th>HAS</th>
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<td><strong>2”</strong></td>
<td><strong>ALPHA 2</strong></td>
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<td>30 W</td>
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<td>200 Hz – 20 kHz</td>
<td>105 Hz</td>
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<td>60 W</td>
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<td>B</td>
<td>88 dB</td>
<td>103 Hz – 10 kHz</td>
<td>120 Hz</td>
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<td>250 W</td>
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<td>89.4 dB</td>
<td>87 Hz – 3.5 kHz</td>
<td>87 Hz</td>
<td>0.54</td>
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<td><strong>PRO SW-9</strong></td>
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<td>150 W</td>
<td>5“</td>
<td>B</td>
<td>97.1 dB</td>
<td>520 Hz – 7.5 kHz</td>
<td>95 Hz</td>
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<td>200 W</td>
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<td>95 Hz – 6 kHz</td>
<td>103 Hz</td>
<td>0.54</td>
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<td><strong>ALPHA-SCOMRA</strong></td>
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<td>1.5“</td>
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<td>97.8 dB</td>
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<td>407 Hz</td>
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<td>1.5“</td>
<td>B</td>
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<td>95 Hz – 6 kHz</td>
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<tr>
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<tr>
<td><strong>ALPHA-BA</strong></td>
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<td>250 W</td>
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<td>B</td>
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<td>58 Hz – 5 kHz</td>
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<td>400 W</td>
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<td>500 W</td>
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<td>95.6 dB</td>
<td>57 Hz – 4.5 kHz</td>
<td>50 Hz</td>
<td>0.59</td>
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<td>96.2</td>
<td>54 Hz – 3 kHz</td>
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<td>400 W</td>
<td>2“</td>
<td>B</td>
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<td>300 Hz – 4 kHz</td>
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<tr>
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<td>400 W</td>
<td>2“</td>
<td>B or 4</td>
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<td>91.8 dB</td>
<td>40 Hz – 2 kHz</td>
<td>35 Hz</td>
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<td>450 W</td>
<td>2“</td>
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<td><strong>BETA-BEX</strong></td>
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<td>500 W</td>
<td>2“</td>
<td>B</td>
<td>94.3 dB</td>
<td>60 Hz – 4 kHz</td>
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<td>700 W</td>
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<td>1500 W</td>
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<td>1200 W</td>
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<td>91.6 dB</td>
<td>47 Hz – 2 kHz</td>
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**APPLICATION**

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<th>MIDRANGE</th>
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<th>SUBWOOFER</th>
<th>BASS GUITAR</th>
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<th>VENTED</th>
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**APPLICATION**

- [ ] MIDRANGE
- [ ] MIDBASS
- [ ] SUBWOOFER
- [ ] BASS GUITAR
- [ ] SEAMED
- [ ] VENTED
- [ ] SCOOP LOADING
- [ ] HORN LOADING

**BOX TYPE**

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- [ ] BETA-12CX
- [ ] DELTA-LITE II 2912
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- [ ] DELTA PRO 12-450A
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- [ ] DELTA PRO-12A
- [ ] LAB12
- [ ] LAB12C
- [ ] DELTA-12A
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- [ ] KAPPA PRO-12A
- [ ] DELTA-12lta
- [ ] DEFINIMAX 4012HD
- [ ] LA12850
- [ ] DEFINIMAX 4012ULF

For **TECHNICAL ASSISTANCE** or to **BECOME A DEALER** call (502) 845-5622 or email info@eminence.com.

Answers to common questions can be found in the support section of our website at www.eminence.com.
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<td>page 40</td>
</tr>
</tbody>
</table>
**PROFESSIONAL SERIES**

**PRO 5W-8**

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

- 150 W Program Power
- 5" Nominal Diameter
- 8 Ohm

**APPLICATION**

- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

**ENCLOSURE**

- Sealed Box
- Vented Box
- Horn Loading

**SPECIFICATION**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Nominal Diameter</td>
<td>5&quot; 127 mm</td>
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<tr>
<td>Nominal Impedance*</td>
<td>8 Ohm</td>
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<tr>
<td>Power Rating**</td>
<td>150 W</td>
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<tr>
<td>Sensitivity</td>
<td>94 dB</td>
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<tr>
<td>Nominal Power</td>
<td>75 W</td>
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<tr>
<td>Resonance</td>
<td>95 Hz</td>
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<tr>
<td>Usable Frequency Range</td>
<td>95 Hz – 7.5 kHz</td>
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<tr>
<td>Material of Conduction</td>
<td>Copper voice coil</td>
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<tr>
<td>Enclosure</td>
<td>Vented</td>
</tr>
<tr>
<td>Recommended Enclosure Volume</td>
<td>0.13 – 0.27 cu.ft.</td>
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**THIEL & SMALL PARAMETERS**

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<thead>
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<th>Parameter</th>
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<tbody>
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<td>Fs</td>
<td>85 Hz</td>
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<tr>
<td>Zp</td>
<td>0.15 Ohm</td>
</tr>
<tr>
<td>Zs</td>
<td>2.55 – 4.81 Ohm</td>
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<tr>
<td>Enclosure</td>
<td>Vented</td>
</tr>
<tr>
<td>Overall Diameter</td>
<td>5.5&quot; 139.7 mm</td>
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<tr>
<td>Enclosure Volume</td>
<td>2.55 – 16.5 cu.ft.</td>
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<tr>
<td>Overall Volume</td>
<td>2.5&quot; 63.5 mm</td>
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<tr>
<td>Vented</td>
<td>0.07 – 0.11 cu.ft.</td>
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<tr>
<td>Sealed</td>
<td>0.13 – 0.27 cu.ft.</td>
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**MOUNTING INFORMATION**

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<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Shipping Weight</td>
<td>2.5 lbs , 1.12 kg</td>
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<tr>
<td>Net Weight</td>
<td>1.98 – 3.11 liters</td>
</tr>
<tr>
<td>Depth</td>
<td>2.5&quot;, 63.5 mm</td>
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<tr>
<td>Mounting Hole Diameter</td>
<td>0.28 mm</td>
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<tr>
<td>Recommended Volume</td>
<td>0.13 – 0.27 cu.ft.</td>
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<tr>
<td>Rear Sealing Gasket</td>
<td>4.74&quot;, 120.4 mm</td>
</tr>
<tr>
<td>Front Sealing Gasket</td>
<td>4.79&quot;, 121.7 mm</td>
</tr>
<tr>
<td>Baffle Hole Diameter</td>
<td>4.28&quot;, 108.7 mm</td>
</tr>
<tr>
<td>Overall Diameter</td>
<td>5.25&quot;, 133.4 mm</td>
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<tr>
<td>Vented</td>
<td>0.09 – 0.17 cu.ft.</td>
</tr>
<tr>
<td>Sealed</td>
<td>2.55 – 4.81 Ohm</td>
</tr>
</tbody>
</table>

**MATERIALS OF CONSTRUCTION**

- Copper voice coil
- X5™ pulp cone
- Ferrite magnet
- Die-cast aluminum frame
- Vented and extended core
- Vented and aluminum basket
- 0.013” Polyurethane
- Cloth cone edge
- Treated paper dust cap

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

**7 YEAR WARRANTY**

Visit eminence.com to find a dealer near you.
DELTA PRO-8A

High power, high sensitivity midbass and midrange driver for pro audio or live sound. Cast-aluminum heatsink style basket is great for stacking in a line array.

- 450 W Program Power
- 8” Nominal Diameter
- 8 or 16 Ω

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

MIDBASS
- Voice Coil Diameter
- Gap Height
- Magnet Weight
- Sensitivity
- Resonance
- Nominal Power
- Program Power
- Power Rating
- Nominal Impedance

SUBWOOFER
- Recommended Enclosure Volume
- Shipping Weight
- Net Weight
- Depth
- Mounting Holes B.C.D.
- Mounting Holes Diameter
- Rear Sealing Gasket
- Front Sealing Gasket
- Baffle Hole Diameter
- Overall Diameter

WOOFER
- Nominal Diameter
- Program Power
- Power Rating
- Nominal Impedance

SUBWOOFER
- Nominal Diameter
- Program Power
- Power Rating
- Nominal Impedance

BASS GUITAR
- Nominal Diameter
- Program Power
- Power Rating
- Nominal Impedance

KENNELS

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

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

KENNELS

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

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

Visit eminence.com to find a dealer near you.
KAPPA PRO-10LF

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

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

**APPLICATION**
- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

**MOUNTING INFORMATION**
- Es: 39 Hz
- Sensitivity: 91.6 dB
- Usable Frequency Range: 271.4 cm²
- Shipping Weight: 18.35 lbs, 8.32 kg
- Net Weight: 10.27 lbs, 260.9 mm
- Overall Diameter: 18.35 lbs, 8.32 kg
- Recommended Enclosure Volume: 0.079 cu.ft., 2.25 liters

**SPECIFICATION**
- Nominal Diameter: 10" - 254 mm
- Nominal Impedance: 8 Ω
- Power Rating*: 1200 W
- Nominal Power: 271 W
- Nominal Power: 5.04 Ω
- Voice Coil Diameter: 10", 254 mm
- Gap Height: 0.27", 6.9 mm
- Magnet Weight: 39 lbs, 17.2 lbs

**MATERIALS OF CONSTRUCTION**
- Aluminum voice coil
- Ferrite magnet
- Paper cone edge
- Treated Paper dust cap

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

**DELTA PRO 12-450**

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

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

**APPLICATION**
- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

**MOUNTING INFORMATION**
- Es: 44 Hz
- Sensitivity: 98.8 dB
- Usable Frequency Range: 271.5 cm²
- Shipping Weight: 11.57 lbs, 5.31 kg
- Net Weight: 11.7 lbs, 5.35 kg
- Overall Diameter: 10.27" 260.9 mm
- Recommended Enclosure Volume: 1.3–3.5 cu.ft.

**SPECIFICATION**
- Nominal Diameter: 12" - 305 mm
- Nominal Impedance: 8 Ω
- Power Rating*: 750 W
- Nominal Power: 271 W
- Nominal Power: 5.47 Ω
- Voice Coil Diameter: 12", 305 mm
- Gap Height: 0.21", 5.4 mm
- Magnet Weight: 14 lbs, 6.35 kg

**MATERIALS OF CONSTRUCTION**
- Aluminum voice coil
- Ferrite magnet
- Paper cone edge
- Treated Paper dust cap

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

**VISIT EMINENCE.COM TO FIND A DEALER NEAR YOU.**
DELTA PRO-12A

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

- **800 W Program Power**
- **18” Nominal Diameter**
- **6 ohm**

**APPLICATION**
- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

**ENCLOSURE**
- Sealed Box
- Vented Box
- Scoop Loading
- Horn Loading

**SPECIFICATION**

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<th>Parameters</th>
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<td>Power Rating**</td>
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<td>Usable Frequency Range</td>
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<td>Nominal Diameter</td>
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<td>Magnet Weight</td>
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<td>Driver Volume Displaced</td>
<td>315.5 mm</td>
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<td>Gap Height</td>
<td>0.0944 cu.ft., 2.55 liters</td>
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<td>Shipping Weight</td>
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<td>Net Weight</td>
<td>6.44”, 163.6 mm</td>
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<td>Mounting Holes Diameter</td>
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<td>Overall Diameter</td>
<td>2.5 – 45 kHz</td>
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**Materials of Construction**
- Aluminum voice coil
- Paper cone
- Foam cone edge
- Rear sealing gasket
- Baffle hole diameter

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

*See footnotes on page 115 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

**LAB 12**

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

- **800 W Program Power**
- **12” Nominal Diameter**
- **6 or 4 ohm**

**APPLICATION**
- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

**ENCLOSURE**
- Sealed Box
- Vented Box
- Scoop Loading
- Horn Loading

**SPECIFICATION**

<table>
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<tr>
<th>Parameters</th>
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<td>Gap Height</td>
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<tr>
<td>Shipping Weight</td>
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<td>Net Weight</td>
<td>6.44”, 163.6 mm</td>
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<tr>
<td>Mounting Holes Diameter</td>
<td>1.8–5 kHz</td>
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**Materials of Construction**
- Copper voice coil
- Polypropylene dust cap
- Double injected 60 oz. ferrite magnets
- Ventilated and extended cone
- Die-cast die-cast aluminum basket
- Kevlar-reinforced paper cone
- Foam cone edge

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

*See footnotes on page 115 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

**Visit EMINENCE.com to find a dealer near you.**
**KAPPA PRO-12A**

- High efficiency pro audio driver for vented midbass, and vented bass enclosures.
- **1000 W** Program Power
- **12”** Nominal Diameter
- **8 Ω** Nominal Impedance
- **519.5 cm²** Nominal Basket Diameter
- **519.9 oz.** Net Weight
- **519.5 oz.** Shipping Weight
- **11.69’’, 296.9 mm** Overall Diameter

**SPECIFICATION**
- Nominal Diameter: 12”
- Nominal Impedance: 8 Ω
- Power Rating: 1200 W
- Nominal Basket Diameter: 12”
- Nominal Impedance: 8 Ω

**Nominal Impedance**
- 8.00 ohms

**Enclosure Information**
- Sealed Box
- Vented Box
- Scoop Loading
- Horn Loading

**Enclosure Application**
- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

**Materials of Construction**
- Cloth cone edge
- Paper cone
- Die-cast aluminum basket
- Vented core
- Ferrite magnet
- Kapton former

**Midrange**
- Water resistant treated paper dust cap
- Undercut with aluminum shorting ring and Core Periphery

**THIELE & SMALL PARAMETERS**
- Nominal Diameter: 12”
- Nominal Impedance: 8 Ω
- Power Rating: 1200 W
- Enclosure: Sealed

**APPLICATION**
- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

**MOUNTING INFORMATION**
- Recommended Enclosure Volume: N/A
- Frequency Response & Impedance Curve

**DEFINIMAX™ 4012H0**

- High output, low distortion midbass or woofer with a broad frequency response.
- **1200 W** Program Power
- **12”** Nominal Diameter
- **8 Ω** Nominal Impedance

**Enclosure Information**
- Sealed Box
- Vented Box
- Scoop Loading
- Horn Loading

**Enclosure Application**
- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

**Materials of Construction**
- High efficiency pro audio driver for vented midbass, and vented bass enclosures.
- **1000 W** Program Power
- **12”** Nominal Diameter

**Midrange**
- High output, low distortion midbass or woofer with a broad frequency response.

**THIELE & SMALL PARAMETERS**
- Nominal Diameter: 12”
- Nominal Impedance: 8 Ω
- Power Rating: 1200 W
- Enclosure: Sealed

**APPLICATION**
- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

**MOUNTING INFORMATION**
- Recommended Enclosure Volume: N/A
- Frequency Response & Impedance Curve

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

LA12850

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

- 1400 W Program Power
- 12” Nominal Diameter
- 8 Ω

MATERIALS OF CONSTRUCTION

Copper voice coil
Alumina former
Alumina magnet
Cone and spider (land extended)
Die cast aluminum basket
Water resistant treated paper cone
Water resistant trim and paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE

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

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

PROFESSIONAL SERIES

DEFINIMAX® 4012ULF

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

- 2400 W Program Power
- 12” Nominal Diameter
- 8 Ω

SPECIFICATION

Nominal Diameter 12”, 305 mm
Nominal Impedance 8 Ω
Power Rating 2400 W
Nominal Power 5000 W
Sensitivity 85.9 dB
Usable Frequency Range 37 Hz – 20 kHz
Recommended Enclosure Volume N/A

MATERIALS OF CONSTRUCTION

Copper voice coil
Alumina former
Alumina magnet
Nylon spider with aluminum shorting ring and Core Periphery
Ventilation
Die cast aluminum basket
Water resistant paper cone
Cone trim ring
Water resistant treated paper dust cap

FREQUENCY RESPONSE & IMPEDANCE CURVE

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

** See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.
DELTA PRO-15A

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

- **800 W Program Power**
- **135° Nominal Diameter**
- **8 Ohms**

**APPLICATION**

- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

**ENCLOSURE**

- Sealed Box
- Vented Box
- Scoop Loading
- Horn Loading

**MATERIALS OF CONSTRUCTION**

- Aluminum voice coil
- Paper cone
- Vented and extended cone
- Gold composition paper dust cap

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

**KAPPA PRO-15A**

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

- **1000 W Program Power**
- **135° Nominal Diameter**
- **8 Ohms**

**APPLICATION**

- Midrange
- Midbass
- woofer
- Subwoofer
- Bass Guitar

**ENCLOSURE**

- Vented Box
- Scoop Loading
- Horn Loading

**MATERIALS OF CONSTRUCTION**

- Aluminum voice coil
- Paper cone
- Vented cone
- Gold composition paper dust cap

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

**SPECIFICATION**

- **Nominal Diameter**: 15.7, 391 mm
- **Nominal Basket Diameter**: 15", 381 mm
- **Nominal Power**: 1000 W
- **Nominal Impedance**: 8 Ohms
- **Usable Frequency Range**: 44 Hz – 4 kHz
- **Sensitivity**: 95 dB, 2.83V/1W
- **Recommended Enclosure Volume**: N/A
- **Nominal Basket Diameter**: 15", 381 mm
- **Nominal Impedance**: 8 Ohms
- **Usable Frequency Range**: 44 Hz – 4 kHz
- **Sensitivity**: 95 dB, 2.83V/1W
- **Recommended Enclosure Volume**: N/A

**MOUNTING INFORMATION**

- **Shipping Weight**: 19.1 lbs, 8.66 kg
- **Net Weight**: 14.56 lbs, 6.63 kg
- **Depth**: 16.96", 430 mm
- **Mounting Holes Diameter**: 4.06", 103 mm
- **Overall Diameter**: 28–42.5 liters, 97–147 liters
- **Recommended Enclosure Volume**: 2–4.7 cu.ft.
- **Sealed Box**: Yes
- **Vented Box**: No
- **Yes
- **Rear Sealing Gasket**: Yes
- **Front Sealing Gasket**: Yes
- **Baffle Hole Diameter**: 0.28", 7.1 mm
- **Overall Diameter**: 14"., 355.6 mm
- **Driver Volume Displaced**: 28–42.5 liters, 97–147 liters
- **Recommended Enclosure Volume**: 2–4.7 cu.ft.
- **Sealed Box**: Yes
- **Vented Box**: No
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- **Vented Box**: No
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- **Rear Sealing Gasket**: Yes
- **Front Sealing Gasket**: Yes
- **Baffle Hole Diameter**: 0.28", 7.1 mm
- **Overall Diameter**: 14"., 355.6 mm
- **Driver Volume Displaced**: 28–42.5 liters, 97–147 liters
- **Recommended Enclosure Volume**: 2–4.7 cu.ft.
**KAPPA PRO-15LF-2**

Long throw, low frequency woofer recommended for pro audio in a vented bass enclosure.
- **1200 W Program Power**
- **15" Nominal Diameter**
- **8 Ω**

**APPLICATION**
- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

**ENCLOSURE**
- Sealed Box
- Vented Box
- Scoop Loading
- Horn Loading

**MATERIALS OF CONSTRUCTION**
- Solid composite paper dust cap
- Cloth cone edge
- Paper cone
- Die-cast aluminum basket
- Vented and extended core
- Ferrite magnet
- Polyimide former

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

**LAB 15**

Subwoofer suited for small vented boxes. Also suitable for horn loading. THiele sub for electronic dance music (EDM).
- **1200 W Program Power**
- **15" Nominal Diameter**
- **8 Ω**

**APPLICATION**
- Midrange
- Midbass
- Vented Box
- Scoop Loading
- Horn Loading

**ENCLOSURE**
- Sealed Box

**MATERIALS OF CONSTRUCTION**
- Foam cone edge
- Kevlar-reinforced paper cone
- Die-cast aluminum basket
- Double stacked 80 oz. ferrite magnets
- Aluminum former

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

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**PROFESSIONAL SERIES**

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**THEILE & SMALL PARAMETERS**

| Fs     | Voice Coil Diameter | Magnet Weight | Sensitivity* | Nominal Power | Program Power | Power Rating* | Nominal Impedance* | Nominal Basket Diameter
<table>
<thead>
<tr>
<th></th>
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<tr>
<td>35 Hz</td>
<td>0.375&quot;</td>
<td>0.28 lb</td>
<td>97 dB</td>
<td>700 W</td>
<td>1400 W</td>
<td>2800 W</td>
<td>8 Ω</td>
<td>12&quot;</td>
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<tr>
<td>70 Hz</td>
<td>0.75&quot;</td>
<td>0.55 lb</td>
<td>93 dB</td>
<td>1400 W</td>
<td>2800 W</td>
<td>5600 W</td>
<td>8 Ω</td>
<td>15&quot;</td>
</tr>
<tr>
<td>100 Hz</td>
<td>1.125&quot;</td>
<td>1.10 lb</td>
<td>90 dB</td>
<td>2800 W</td>
<td>5600 W</td>
<td>11200 W</td>
<td>8 Ω</td>
<td>18&quot;</td>
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**MOUNTING INFORMATION**

<table>
<thead>
<tr>
<th>Recommended Enclosure Volume</th>
<th>Sealed</th>
<th>Enclosure Material</th>
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<tbody>
<tr>
<td>Vented</td>
<td>0.158 cu.ft.</td>
<td>4.46 liters</td>
</tr>
<tr>
<td>Vented</td>
<td>0.315 cu.ft.</td>
<td>8.8 liters</td>
</tr>
<tr>
<td>Enclosed</td>
<td>0.477 cu.ft.</td>
<td>13.6 liters</td>
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</table>

**THIEL & SMALL PARAMETERS**

| Fs     | Voice Coil Diameter | Magnet Weight | Sensitivity* | Nominal Power | Program Power | Power Rating* | Nominal Impedance* | Nominal Basket Diameter
<table>
<thead>
<tr>
<th></th>
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<tr>
<td>25 Hz</td>
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<td>97 dB</td>
<td>700 W</td>
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<td>2800 W</td>
<td>8 Ω</td>
<td>12&quot;</td>
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<tr>
<td>50 Hz</td>
<td>0.75&quot;</td>
<td>0.55 lb</td>
<td>93 dB</td>
<td>1400 W</td>
<td>2800 W</td>
<td>5600 W</td>
<td>8 Ω</td>
<td>15&quot;</td>
</tr>
<tr>
<td>75 Hz</td>
<td>1.125&quot;</td>
<td>1.10 lb</td>
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<td>2800 W</td>
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**VISIT EMINENCE.COM TO FIND A DEALER NEAR YOU.**
**LA15850**

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

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

**Recommended Enclosure Volume**
- Sealed
- Vented

**Driver Volume Displaced**
- Major Diameter
- Flat to Flat Diameter
- Vented Box
- Scoop Loading
- Horn Loading

**Midrange**
- **Bass Guitar**

**Specifications**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<tbody>
<tr>
<td>Nominal Diameter</td>
<td>15.0&quot;, 381 mm</td>
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<tr>
<td>Voice Coil Diameter</td>
<td>4.0&quot;, 102 mm</td>
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<tr>
<td>Usable Frequency Range</td>
<td>45 Hz – 1.5 kHz</td>
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<td>Resonance</td>
<td>96.2 dB</td>
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<td>Nominal Power</td>
<td>1600 W</td>
</tr>
<tr>
<td>Program Power</td>
<td>1091 W</td>
</tr>
<tr>
<td>Power Rating*</td>
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</tbody>
</table>

**Materials of Construction**

- **Copper voice coil**
- **Polyurethane foam**
- **Polypropylene cone**
- **Paper cone**
- **Steel magnet**
- **Cloth cone edge**
- **Water resistant treated paper dust cap**
- **Die-cast aluminum basket**
- **Ferrite magnet**
- **Polyimide former**
- **Copper voice coil**
- **Polyurethane foam**
- **Polypropylene cone**
- **Paper cone**
- **Steel magnet**
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- **Paper cone**
- **Steel magnet**
- **Cloth cone edge**
- **Water resistant treated paper dust cap**
- **Die-cast aluminum basket**
- **Ferrite magnet**
- **Polyimide former**

**Frequency Response & Impedance Curve**

- **LA15850**
- **OMEGA PRO-15A**

Visit eminence.com to find a dealer near you.

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

**Definimax™ 4015LF**

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

- **2400 W Program Power**
- **15” Nominal Diameter**
- **8 Ohm**

#### APPLICATION
- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

#### ENCLOSEMENT
- Sealed Box
- Vented Box
- Screw Loading
- Horn Loading

#### Materials of Construction
- Copper voice coil
- Aluminum former
- Ferrite magnet
- Urethane with aluminum shorting ring and Core Periphery
- Ventilation
- G1-30 aluminum basket
- Water resistant paper cone
- Cloth cone rings
- Water resistant treated paper dust cap

#### Thiele & Small Parameters

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<tr>
<th>Parameter</th>
<th>4015 LF</th>
<th>4015 ULF</th>
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<tr>
<td>Voice Coil Diameter</td>
<td>4.5”</td>
<td>4.5”</td>
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<td>Magnet Weight</td>
<td>31.0 oz</td>
<td>24.7 oz</td>
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<tr>
<td>Usable Frequency Range</td>
<td>29 Hz – 1.2 kHz</td>
<td>29 Hz – 0.8 kHz</td>
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<tr>
<td>Sensitivity</td>
<td>94.7 dB</td>
<td>95.0 dB</td>
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<td>Nominal Power</td>
<td>1120 W</td>
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<td>2400 W</td>
</tr>
<tr>
<td>Drive Volume Displaced</td>
<td>0.11 mm/N</td>
<td>0.11 mm/N</td>
</tr>
<tr>
<td>Overall Diameter</td>
<td>17.7”, 361 mm</td>
<td>16.8”, 427 mm</td>
</tr>
<tr>
<td>Baffle Hole Diameter</td>
<td>9 mm</td>
<td>9 mm</td>
</tr>
<tr>
<td>Mounting Holes Diameter</td>
<td>2.375”, 55 mm</td>
<td>0.375”, 9.5 mm</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>856.3 oz</td>
<td>74.7 oz</td>
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<tr>
<td>Net Weight</td>
<td>207.7 lbs</td>
<td>11.3 lbs</td>
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**Specification**
- Nominal Basket Diameter: 16.8”, 427 mm
- Nominal Impedance*: 7 Ohm
- Power Rating**: 1200 W
- Drive Volume Displaced: 0.11 mm/N
- Overall Diameter: 17.7”, 361 mm
- Baffle Hole Diameter: 9 mm
- Mounting Holes Diameter: 2.375”, 55 mm
- Shipping Weight: 856.3 oz
- Net Weight: 207.7 lbs

**Recommended Enclosure Volumes**
- Sealed: 63.09 – 99.91 liters
- Vented: 15.69 – 36.75 liters

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

---

**Definimax™ 4015ULF**

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

- **2400 W Program Power**
- **15” Nominal Diameter**
- **8 Ohm**

#### APPLICATION
- Midrange
- Midbass
- Vented Box
- Screw Loading
- Horn Loading
- Bass Guitar

#### ENCLOSEMENT
- Sealed Box
- Vented Box

#### Materials of Construction
- Copper voice coil
- Aluminum former
- Ferrite magnet
- Urethane with aluminum shorting ring and Core Periphery
- Ventilation
- G1-30 aluminum basket
- Water resistant paper cone
- Cloth cone rings
- Water resistant treated paper dust cap

#### Thiele & Small Parameters

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<td>0.1 mm/N</td>
</tr>
<tr>
<td>Overall Diameter</td>
<td>16.8”, 427 mm</td>
</tr>
<tr>
<td>Baffle Hole Diameter</td>
<td>9 mm</td>
</tr>
<tr>
<td>Mounting Holes Diameter</td>
<td>0.375”, 9.5 mm</td>
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<tr>
<td>Shipping Weight</td>
<td>74.7 oz</td>
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<tr>
<td>Net Weight</td>
<td>11.3 lbs</td>
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**Specification**
- Nominal Basket Diameter: 16.8”, 427 mm
- Nominal Impedance*: 7 Ohm
- Power Rating**: 1200 W
- Drive Volume Displaced: 0.1 mm/N
- Overall Diameter: 16.8”, 427 mm
- Baffle Hole Diameter: 9 mm
- Mounting Holes Diameter: 0.375”, 9.5 mm
- Shipping Weight: 74.7 oz
- Net Weight: 11.3 lbs

**Recommended Enclosure Volumes**
- Sealed: N/A
- Vented: 60.59 – 215.66 liters

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.
**Kilomax Pro 15A**

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

- **2500 W** Program Power
- **18”** Nominal Diameter
- **8 Ω** Nominal Impedance
- **1000 W** Nominal Power
- **2500 W** Program Power
- **18”** Nominal Diameter
- **8** or **4 Ω** Nominal Impedance

**Thiele Small Parameters**

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<tr>
<th>Fo</th>
<th>4.1 Hz</th>
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</thead>
<tbody>
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</tr>
<tr>
<td>Xmax</td>
<td>8.25 kHz</td>
</tr>
</tbody>
</table>

**MOUNTING INFORMATION**

- **Recommended Enclosure Volume**
- **Sealed**
- **N/A**

**Specification**

- **Nominal Basket Diameter**: 167.381 mm
- **Nominal Impedance**: 4 Ω
- **Power Rating**: 2500 W
- **Nominal Power**: 1000 W
- **Nominal Diameter**: 18”
- **Nominal Impedance**: 4 Ω

**Materials of Construction**

- **Copper voice coil**
- **Aluminum former**
- **Ferrite magnet**
- **Expanded extended core with Core Infiltration ventilation**
- **One piece aluminum basket**
- **Paper cone**
- **Cloth cone edge**
- **Solid composition paper dust cap**

**Frequency Response & Impedance Curve**

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

**DELTA PRO-18A**

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

- **1000 W** Program Power
- **18”** Nominal Diameter
- **8 Ω** Nominal Impedance

**Thiele Small Parameters**

<table>
<thead>
<tr>
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<th>20 Hz</th>
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</thead>
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<tr>
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<tr>
<td>Xmax</td>
<td>8.25 kHz</td>
</tr>
</tbody>
</table>

**MOUNTING INFORMATION**

- **Recommended Enclosure Volume**
- **Sealed**
- **N/A**

**Specification**

- **Nominal Diameter**: 16”, 406.4 mm
- **Nominal Impedance**: 4 Ω
- **Power Rating**: 1000 W
- **Nominal Power**: 800 W
- **Nominal Diameter**: 18”, 457 mm
- **Nominal Impedance**: 4 Ω

**Materials of Construction**

- **Copper voice coil**
- **Aluminum former**
- **Ferrite magnet**
- **Expanded extended cone with Core Infiltration ventilation**
- **One piece aluminum basket**
- **Paper cone**
- **Cloth cone edge**
- **Gold composition paper dust cap**

**Frequency Response & Impedance Curve**

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

**SIGMA PRO 18-4**

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

- 1400 W Program Power
- 1" Nominal Diameter
- 4Ω

### Specification

- **Nominal Diameter**: 18", 457 mm
- **Nominal Impedance**: 4Ω
- **Power Rating**: 1400 W
- **Program Power**: 1600 W
- **Sensitivity**: 93.6 dB
- **Usable Frequency Range**: 32 Hz – 2 kHz
- **Resonance**: 28 Hz
- **Recommended Enclosure Volume**: Vented 0.245 cu.ft., 6.94 liters
  - Sealed 0.234 cu.ft., 6.62 liters

### Materials of Construction

- Copper voice coil
- Aluminum former
- Foam surround
- Vent and extended cone
- Die-cast aluminum basket
- Paper cone
- Cloth cone
- Gold compression paper dust cap

### Mounting Information

- **Shipping Weight**: 28.1 lbs, 12.75 kg
- **Net Weight**: 24.5 lbs, 11.11 kg
- **Recommended Enclosure Volume**
  - Vented: 0.245 cu.ft., 6.94 liters
  - Sealed: 0.234 cu.ft., 6.62 liters

### Frequency Response & Impedance Curve

![Frequency Response & Impedance Curve](image)

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

---

**PROFESSIONAL SERIES**

**SIGMA PRO 18A-2**

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

- 1300 W Program Power
- 1" Nominal Diameter
- 8Ω

### Specification

- **Nominal Diameter**: 18", 457 mm
- **Nominal Impedance**: 8Ω
- **Power Rating**: 1400 W
- **Program Power**: 1300 W
- **Sensitivity**: 97.6 dB
- **Usable Frequency Range**: 41 Hz – 2.4 kHz
- **Resonance**: 1400 W
- **Recommended Enclosure Volume**: Vented 15.58 cu.ft., 441.2 liters
  - Sealed 8.15 cu.ft., 230.3 liters

### Materials of Construction

- Solid paper dust cap
- Cloth cone edge
- Die-cast aluminum basket
- Polyimide former
- Copper voice coil
- Vented and extended cone
- Die-cast aluminum basket
- Paper cone
- Cloth cone
- Gold compression paper dust cap

### Mounting Information

- **Shipping Weight**: 28.1 lbs, 12.75 kg
- **Net Weight**: 24.5 lbs, 11.11 kg
- **Recommended Enclosure Volume**
  - Vented: 15.58 cu.ft., 441.2 liters
  - Sealed: 8.15 cu.ft., 230.3 liters

### Frequency Response & Impedance Curve

![Frequency Response & Impedance Curve](image)

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

---

VISIT EMINENCE.COM TO FIND A DEALER NEAR YOU.
### KAPPA PRO 18LF-8

The Kappa Pro 18LF provides tons of low frequency output in a lightweight, durable cast aluminum chassis. Use it as a subwoofer in small to medium sized boxes, a woofer in large three way fly line enclosures, or as a high power bass guitar woofer. The 1.4ohm coil program power rating makes it an easy choice for new box designs or as a replacement for many single and double subwoofer cabinets.

- **1400 W** Program Power
- **18" Nominal Diameter**
- **8 Ω** Nominal Impedance
- **0.29 mm/N** Magnet Weight
- **137 grams** Net Weight
- **1159 cm²** Driver Area
- **1.67 mH** Voice Coil Inductance

### Performance

**Nominal Power**
- **1600 W**

**Max Power**
- **3200 W**

**Sensitivity**
- **98 dB**

**Nominal Basket Diameter**
- **18"**

**Program Power**
- **1600 W**

**Nominal Impedance**
- **8 Ω**

**Usable Frequency Range**
- **32 Hz – 0.8 kHz**

**Resonance**
- **19.39 T-M**

**SPL vs Freq**
- **41.0 Hz 50.0 100.0 200.0 500.0 1K 2K 5K 10K 20K**

**SPL vs Freq**
- **40 Hz – 0.8 kHz**

**SPL vs Freq**
- **20 Hz 50 100 200 500 1K 2K 5K 10K 20K**

**SPL vs Freq**
- **556 cc**

**SPL vs Freq**
- **28.1 lbs , 12.75 kg**

**SPL vs Freq**
- **28.9 lbs , 13.11 kg**

### Application

- **Midrange**
- **Midbass**
- **Woofer**
- **Subwoofer**
- **Bass Guitar**

### Enclosure

- **Sealed Box**
- **Scoop Loading**
- **Horn Loaded**

### SPECIFICATION

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Basket Diameter</td>
<td>18&quot;, 457 mm</td>
</tr>
<tr>
<td>Nominal Impedance</td>
<td>8 Ω</td>
</tr>
<tr>
<td>Power Rating**</td>
<td>1400 W</td>
</tr>
<tr>
<td>Resonance</td>
<td>19.39 T-M</td>
</tr>
<tr>
<td>Usable Frequency Range</td>
<td>32 Hz – 0.8 kHz</td>
</tr>
<tr>
<td>Sensitivity**</td>
<td>98 dB</td>
</tr>
<tr>
<td>Magnet Weight</td>
<td>137 grams</td>
</tr>
<tr>
<td>Driver Area</td>
<td>1159 cm²</td>
</tr>
<tr>
<td>Voice Coil Inductance</td>
<td>1.67 mH</td>
</tr>
</tbody>
</table>

### MATERIALS OF CONSTRUCTION

- **Copper voice coil**
- **Paper former**
- **Aluminum magnet**
- **Ventilated extended cone**
- **Encapsulated aluminum basket**
- **Rounded paper dust cap**

---

### OMEGA PRO-18A

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

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

### Performance

**Nominal Power**
- **1600 W**

**Max Power**
- **3200 W**

**Sensitivity**
- **92 dB**

**Nominal Basket Diameter**
- **18"**

**Program Power**
- **1600 W**

**Nominal Impedance**
- **8 Ω**

**Usable Frequency Range**
- **40 Hz – 0.8 kHz**

**Resonance**
- **17.29 T-M**

**SPL vs Freq**
- **40 Hz – 0.8 kHz**

**SPL vs Freq**
- **25 Hz 50 100 200 500 1K 2K 5K 10K 20K**

**SPL vs Freq**
- **556 cc**

**SPL vs Freq**
- **556 cc**

**SPL vs Freq**
- **556 cc**

**SPL vs Freq**
- **25.2 lbs , 11.89 kg**

### Application

- **Midrange**
- **Midbass**
- **Woofer**
- **Subwoofer**
- **Bass Guitar**

### Enclosure

- **Sealed Box**
- **Scoop Loading**
- **Horn Loaded**

### SPECIFICATION

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Basket Diameter</td>
<td>18&quot;, 457 mm</td>
</tr>
<tr>
<td>Nominal Impedance</td>
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<tr>
<td>Power Rating**</td>
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<tr>
<td>Resonance</td>
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<td>Driver Area</td>
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<td>Voice Coil Inductance</td>
<td>1.21 mH</td>
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</table>

### MATERIALS OF CONSTRUCTION

- **Copper voice coil**
- **Aluminum former**
- **Paper former**
- **Aluminum magnet**
- **Ventilated extended cone**
- **Encapsulated aluminum basket**
- **Paper dust cap**
- **Gold composition paper dust cap**

---

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

**NOTE:** The specifications provided are for professional audio applications. For home audio use, consult the manufacturer’s guidelines.
## DEFINIMAX™ 4018LF

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

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

### MATERIALS OF CONSTRUCTION

- Copper voice coil
- Aluminum former
- Aluminum magnet
- Undershaft with aluminum shorting ring and core performance
- Ventilation
- Cap core aluminum basket
- Water resistant paper cone
- Dust cone edge
- Water resistant treated paper dust cap

### FREQUENCY RESPONSE & IMPEDANCE CURVE

* See footnote on page 455 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

### SPECIFICATION

- Nominal Diameter: 18”, 457 mm
- Nominal Impedance*: 8 Ω
- Power Rating: 2400 W
- Nominal Power: 1200 W
- Usable Frequency Range: 35 Hz – 0.8 kHz
- Resonance: 31 Hz
- Sensitivity: 94.9 dB
- Program Power: 1007 W
- Nominal Basket Diameter: 900.7 cm
- Magnet Weight: 109 oz.
- Gap Height: 0.34 mm
- Voice Coil Diameter: 0.38 mm
- Weight: 24 lbs, 10.89 kg

### APPLICATION

- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

### ENCLOSURE

- Sealed Box
- Vented Box
- Scoop Loading
- Horn Loading

### MOUNTING INFORMATION

- Recommended Enclosure Volume: N/A
- Frequency Response & Impedance Curve *

---

## IMPERO™ 18A

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

- **2400 W** Program Power
- **18”** Nominal Diameter
- **6.5 – 4 Ω**

### MATERIALS OF CONSTRUCTION

- Copper voice coil
- Aluminum former
- Aluminum magnet
- Bumped vented extended cone
- Die cast aluminum basket
- Water resistant paper cone
- Paper cone cone edge
- Water resistant treated paper dust cap

### FREQUENCY RESPONSE & IMPEDANCE CURVE

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

### SPECIFICATION

- Nominal Diameter: 18”, 457 mm
- Nominal Impedance*: 6.5 – 4 Ω
- Power Rating: 2400 W
- Nominal Power: 1007 W
- Usable Frequency Range: 33 Hz – 0.8 kHz
- Resonance: 33 Hz
- Sensitivity: 95.9 dB
- Program Power: 1007 W
- Nominal Basket Diameter: 900.7 cm
- Magnet Weight: 180 oz.
- Gap Height: 0.5”, 12.7 mm
- Voice Coil Diameter: 0.38 mm
- Weight: 27.3 lbs, 12.26 kg

### APPLICATION

- Midrange
- Midbass
- Vented Box
- Scoop Loading
- Horn Loading

### ENCLOSURE

- Sealed Box
- Vented Box
- Scoop Loading
- Horn Loading

### MOUNTING INFORMATION

- Recommended Enclosure Volume: N/A
- Frequency Response & Impedance Curve *

---

* Footnote: See page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.
PROFESSIONAL SERIES

KILOMAX® PRO 18A

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

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

APPLICATION

- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

ENCLOSURE

- Sealed Box
- Vented Box
- Scoop Loading
- Horn Loading

THIELE & SMALL PARAMETERS

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<tr>
<th>Specification</th>
<th>Fs  (22 Hz)</th>
<th>Qx</th>
<th>Qm</th>
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<td>18&quot;</td>
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<td>Usable Frequency Range</td>
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<td>33 Hz – 0.2 kHz</td>
<td>33 Hz – 0.2 kHz</td>
<td>33 Hz – 0.2 kHz</td>
<td>33 Hz – 0.2 kHz</td>
<td>33 Hz – 0.2 kHz</td>
<td>33 Hz – 0.2 kHz</td>
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<td>Sensitivity*</td>
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<td>95.0 dB</td>
<td>95.0 dB</td>
<td>95.0 dB</td>
<td>95.0 dB</td>
<td>95.0 dB</td>
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<tr>
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<td>7.9 lbs.</td>
<td>7.9 lbs.</td>
<td>7.9 lbs.</td>
<td>7.9 lbs.</td>
<td>7.9 lbs.</td>
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<tr>
<td>Gap Height</td>
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<td>0.077&quot; / 1.95 mm</td>
<td>0.077&quot; / 1.95 mm</td>
<td>0.077&quot; / 1.95 mm</td>
<td>0.077&quot; / 1.95 mm</td>
<td>0.077&quot; / 1.95 mm</td>
<td>0.077&quot; / 1.95 mm</td>
<td>0.077&quot; / 1.95 mm</td>
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<tr>
<td>Voice Coil Diameter</td>
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<td>4.756&quot; / 121 mm</td>
<td>4.756&quot; / 121 mm</td>
<td>4.756&quot; / 121 mm</td>
<td>4.756&quot; / 121 mm</td>
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<td>4.756&quot; / 121 mm</td>
<td>4.756&quot; / 121 mm</td>
</tr>
</tbody>
</table>

MOUNTING INFORMATION

<table>
<thead>
<tr>
<th>Specification</th>
<th>Recommended Enclosure Volume Sealed</th>
<th>106.8–172.2 cu ft, 3.7–6.1 cu m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sealed Box</td>
<td>116.6–300.3 cu ft, 4.3–10.7 cu m</td>
<td>Nominal Power</td>
</tr>
</tbody>
</table>

SPECS

- Frequency Response & Impedance Curve*

- See footnotes on page 455 for information regarding available frequency range, nominal impedance, power rating and sensitivity.

* See footnotes on page 455 for information regarding available frequency range, nominal impedance, power rating and sensitivity.

KAPPALITE 3015

15" / 900 W

only

7.9 LBS

1 YEAR WARRANTY

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

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

NEODYMIUM SERIES

Taking the weight out, leaving the performance in.

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

Visit Eminence.com to find a dealer near you.

[Diagram of speaker enclosure]

[Diagram of frequency response & impedance curve]
**NEODYMIUM SERIES**

**ALPHALITE™ 6A**

Lightweight pro audio midbass driver.

- Program Power: 200 W
- Frequency Range: 100 Hz – 5.5 kHz
- Sensitivity: 94 dB
- Nominal Impedance: 8 Ω
- Diameter: 6.5"

**DELTA-LITE™ II2510**

Recommended for pro audio as a mid/hi or full-range and monitor. Also suited for bass guitar applications.

- Program Power: 500 W
- Frequency Range: 60 Hz – 4 kHz
- Sensitivity: 97.0 dB
- Nominal Impedance: 8 Ω
- Diameter: 10"

---

**SPECIFICATION**

- **Nominal Basket Diameter**: 6.5”, 165 mm
- **Voice Coil Diameter**: 0.275”, 7 mm
- **Gap Height**: 0.275”, 7 mm
- **Magnet Weight**: 7 oz.
- **Usable Frequency Range**: 60 Hz – 4 kHz
- **Resonance**: 53 Hz
- **Nominal Power**: 500 W
- **Program Power**: 500 W
- **Electrical Impedance**: 8 Ω
- **Mounting Information**: Sealed
- **Recommended Enclosure Volume**: 105 cc
- **Overall Diameter**: 10”, 254 mm
- **Shipping Weight**: 5.7 lbs, 2.59 kg
- **Net Weight**: 4.6 lbs, 2.09 kg

**MATERIALS OF CONSTRUCTION**

- Aluminum voice coil
- Die-cast aluminum basket/heat sink
- Vented core
- Neodymium magnet

**THIELE SMALL PARAMETERS**

- **Voice Coil Diameter**: 0.275", 7 mm
- **Gap Height**: 0.275", 7 mm
- **Nominal Basket Diameter**: 6.5", 165 mm
- **Nominal Power**: 500 W
- **Program Power**: 500 W
- **Electrical Impedance**: 8 Ω
- **Mounting Information**: Sealed
- **Recommended Enclosure Volume**: 105 cc
- **Overall Diameter**: 10”, 254 mm
- **Shipping Weight**: 5.7 lbs, 2.59 kg
- **Net Weight**: 4.6 lbs, 2.09 kg

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.
### DeltaLite II 2512

**Neddymium Series**

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

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

**Application**
- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

**Enclosure**
- Sealed Box
- Vented Box
- Scoop Loading
- Horn Loading

**Characteristics**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nominal Diameter</strong></td>
<td>12”, 305 mm</td>
</tr>
<tr>
<td><strong>Usable Frequency Range</strong></td>
<td>50 Hz – 3.5 kHz</td>
</tr>
<tr>
<td><strong>Sensitivity</strong></td>
<td>99.9 dB</td>
</tr>
<tr>
<td><strong>Resonance</strong></td>
<td>44 Hz</td>
</tr>
<tr>
<td><strong>Nominal Power</strong></td>
<td>400 W</td>
</tr>
<tr>
<td><strong>Program Power</strong></td>
<td>800 W</td>
</tr>
<tr>
<td><strong>Nominal Basket Diameter</strong></td>
<td>205 mm</td>
</tr>
<tr>
<td><strong>Nominal Basket Diameter</strong></td>
<td>305 mm</td>
</tr>
<tr>
<td><strong>RMS Power</strong></td>
<td>400 W</td>
</tr>
<tr>
<td><strong>Program Power</strong></td>
<td>800 W</td>
</tr>
<tr>
<td><strong>Nominal Power</strong></td>
<td>400 W</td>
</tr>
<tr>
<td><strong>Program Power</strong></td>
<td>800 W</td>
</tr>
<tr>
<td><strong>Nominal Power</strong></td>
<td>400 W</td>
</tr>
<tr>
<td><strong>Program Power</strong></td>
<td>800 W</td>
</tr>
<tr>
<td><strong>Nominal Power</strong></td>
<td>400 W</td>
</tr>
<tr>
<td><strong>Program Power</strong></td>
<td>800 W</td>
</tr>
<tr>
<td><strong>Nominal Power</strong></td>
<td>400 W</td>
</tr>
<tr>
<td><strong>Program Power</strong></td>
<td>800 W</td>
</tr>
</tbody>
</table>

**Materials of Construction**

- Aluminum voice coil
- Paper cone
- Aluminum magnet
- Treated paper dust cap
- Treated cloth surround
- Treated cloth voice coil

**Frequency Response & Impedance Curve**

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

### Kappalite® 3012HO

**Neddymium Series**

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

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

**Application**
- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

**Enclosure**
- Sealed Box
- Vented Box
- Scoop Loading
- Horn Loading

**Characteristics**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nominal Diameter</strong></td>
<td>12”, 305 mm</td>
</tr>
<tr>
<td><strong>Usable Frequency Range</strong></td>
<td>50 Hz – 3.5 kHz</td>
</tr>
<tr>
<td><strong>Sensitivity</strong></td>
<td>105.5 dB</td>
</tr>
<tr>
<td><strong>Resonance</strong></td>
<td>52 Hz</td>
</tr>
<tr>
<td><strong>Nominal Power</strong></td>
<td>400 W</td>
</tr>
<tr>
<td><strong>Program Power</strong></td>
<td>800 W</td>
</tr>
<tr>
<td><strong>Nominal Power</strong></td>
<td>400 W</td>
</tr>
<tr>
<td><strong>Program Power</strong></td>
<td>800 W</td>
</tr>
<tr>
<td><strong>Nominal Power</strong></td>
<td>400 W</td>
</tr>
<tr>
<td><strong>Program Power</strong></td>
<td>800 W</td>
</tr>
<tr>
<td><strong>Nominal Power</strong></td>
<td>400 W</td>
</tr>
<tr>
<td><strong>Program Power</strong></td>
<td>800 W</td>
</tr>
</tbody>
</table>

**Materials of Construction**

- Aluminum voice coil
- Paper cone
- Aluminum magnet
- Treated paper dust cap
- Treated cloth surround
- Treated cloth voice coil

**Frequency Response & Impedance Curve**

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

---

**Materials of Construction**

- Aluminum voice coil
- Paper cone
- Aluminum magnet
- Treated paper dust cap
- Treated cloth surround
- Treated cloth voice coil

**Frequency Response & Impedance Curve**

*See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.
**Kappalite™ 3012LF**

Recommended for pro audio and bass in vented enclosures.

- **900 W** Program Power
- **1.5 Ω** Nominal Diameter
- **8 Ω**

**APPLICATION**

- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

**MOUNTING INFORMATION**

<table>
<thead>
<tr>
<th>Fs</th>
<th>Recommended Enclosure Volume</th>
<th>Sealed</th>
<th>25-39 liters</th>
</tr>
</thead>
</table>

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

**NEODYMIUM SERIES**

**DeltaLite™ II 2515**

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

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

**APPLICATION**

- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

**MOUNTING INFORMATION**

<table>
<thead>
<tr>
<th>Fs</th>
<th>Recommended Enclosure Volume</th>
<th>Sealed</th>
<th>42.5–68 liters</th>
</tr>
</thead>
</table>

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

- See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.
KAPPALITE™ 3015

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

- 900 W Program Power
- 15” Nominal Diameter
- 8 ohm

APPLICATION
- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

ENCLOSURE
- Sealed Box
- Vented Box
- Screw Loading
- Horn Loading

MATERIALS OF CONSTRUCTION
- Copper voice coil
- Glass fiber braid
- Aluminum frame
- Neodymium magnet
- Treated paper dust cap
- Cloth cone edge
- Solid composition paper dust cap

THIELE & SMALL PARAMETERS

<table>
<thead>
<tr>
<th>Fs</th>
<th>45 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qts</td>
<td>2.07</td>
</tr>
<tr>
<td>Qts</td>
<td>0.06</td>
</tr>
</tbody>
</table>

RECOMMENDED ENCLOSURE VOLUME

- 51.146 liters
- 16.6 ± 0.5 cu ft

USABLE FREQUENCY RANGE

- 40 Hz – 4 kHz

Nominal Power

- 80 W

Nominal Impedance

- 8 ohm

FREQUENCY RESPONSE & IMPEDANCE CURVE

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

KAPPALITE™ 3015LF

Recommended for professional audio and bass in vented enclosures.

- 900 W Program Power
- 15” Nominal Diameter
- 8 ohm

APPLICATION
- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

ENCLOSURE
- Sealed Box
- Vented Box
- Screw Loading
- Horn Loading

MATERIALS OF CONSTRUCTION
- Copper voice coil
- Glass fiber braid
- Aluminum frame
- Neodymium magnet
- Treated paper dust cap
- Cloth cone edge
- Solid composition paper dust cap

THIELE & SMALL PARAMETERS

<table>
<thead>
<tr>
<th>Fs</th>
<th>45 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qts</td>
<td>2.07</td>
</tr>
<tr>
<td>Qts</td>
<td>0.06</td>
</tr>
</tbody>
</table>

RECOMMENDED ENCLOSURE VOLUME

- 51.146 liters
- 16.6 ± 0.5 cu ft

USABLE FREQUENCY RANGE

- 40 Hz – 4 kHz

Nominal Power

- 80 W

Nominal Impedance

- 8 ohm

FREQUENCY RESPONSE & IMPEDANCE CURVE

* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.
Each Eminence American Standard model can be identified by its economical stamped steel chassis. Although more affordable than cast aluminum, these frames provide an excellent and versatile chassis. We coat the basket and all metal parts with an epoxy-acrylic finish. Our in-house e-coat process lets us control the thickness of that coating to within 0.001". That's the diameter of a human hair and it's critical when working with close tolerance transducer motor designs. We then add front and rear sealing gaskets on each model to allow front or rear loading.

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

AMERICAN STANDARD SERIES
Offering unmatched quality and value.

There are 30 unique models available in our American Standard series, each designed for versatility in a wide range of applications.

Eminence offers 2" to 15" models with applications ranging from standard subwoofers, two-way enclosures, and coaxials, to truncated line array models, monitor woofers, and high performance midranges setting records for output in car audio.

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

*Warranty policy may vary outside of the continental United States and Canada. Check with your local distributor for warranty details.
The Eminence Alpha 3-8 is a truly versatile compact full-range driver perfectly suited for tight fitting pro audio line array and column array applications. With a program power rating of 40 watts, this 3” driver utilizes an 8 oz ferrite magnet in conjunction with an internal neodymium bucking magnet for increased sensitivity and extends the response out to 20 kHz. The highly pressed cone sandwich paper with a layer of water-resistant propylene for increased stiffness and lower distortion.

**Materials of Construction**
- Poly dust cap
- Poly cone edge
- Paper/Poly sandwich cone
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Gold composition paper dust cap

**Specification**
- **Nominal Basket Diameter**: 3.0” Nominal Diameter
- **Voice Coil Diameter**: 4.0 mm
- **Gap Height**: 0.38 mm
- **Magnet Weight**: 2.40 mm
- **Sensitivity**: 88.6 dB
- **Usable Frequency Range**: 118 Hz – 20.0 kHz
- **Resonance**: 3.0 Hz
- **Program Power**: 30 W
- **Power Rating**: 60 W
- **Nominal Impedance**: 8 Ω
- **Impedance Curve**: Yes
- **Enclosure**: Vented Box

**Mounting Information**
- **Driver Volume Displaced**: 0.03 cu.ft., 0.95 liters
- **Net Weight**: 1.10 lbs, 0.50 kg
- **Shipping Weight**: 3.98 lbs, 1.80 kg

Visit eminence.com to find a dealer near you.
**AMERICAN STANDARD SERIES**

**ALPHA-5**

The Alpha 5 offers uninstallable performance with an emphasis on value. Rated at 250 watts program power, this 5" midbass features a water-resistant cone and dust cap, making it an excellent choice for line array or column array applications.

- **250 W Program Power**
- **5" Nominal Diameter**
- **Bass Guitar / Subwoofer / Midbass / Midrange / Scoop Loading**

**SPECIFICATION**

- Nominal Diameter: 57, 137 mm
- Nominal Impedance: 4 Ω
- Power Rating: 250 W
- Sensitivity: 95 Hz – 6 kHz
- Usable Frequency Range: 80.75 mm
- Resonance: 5.92 mm
- Nominal Power: 125 W
- Nominal Impedance: 8 Ω
- Form Factor: 1.5", 38 mm

**MATERIALS OF CONSTRUCTION**

- Paper cone
- Cloth cone edge
- Pressed steel basket
- Ferrite magnet
- Polyimide former
- Water resistant paper dust cap
- Water resistant cone pulp

**THIELE & SMALL PARAMETERS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Measurements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Response &amp; Impedance Curve</td>
<td><img src="image1.png" alt="Graph" /></td>
</tr>
<tr>
<td>Nominal Diameter</td>
<td>57, 137 mm</td>
</tr>
<tr>
<td>Nominal Impedance</td>
<td>4 Ω</td>
</tr>
<tr>
<td>Power Rating</td>
<td>250 W</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>95 Hz – 6 kHz</td>
</tr>
<tr>
<td>Usable Frequency Range</td>
<td>80.75 mm</td>
</tr>
<tr>
<td>Resonance</td>
<td>5.92 mm</td>
</tr>
<tr>
<td>Nominal Power</td>
<td>125 W</td>
</tr>
<tr>
<td>Nominal Impedance</td>
<td>8 Ω</td>
</tr>
<tr>
<td>Form Factor</td>
<td>1.5&quot;, 38 mm</td>
</tr>
</tbody>
</table>

**APPLICATION**

- Midrange
- Midbass
- Scoop Loading
- Woofer
- Horn Loading

**MOUNTING INFORMATION**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Measurements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shipping Weight</td>
<td>4.8 lbs, 2.18 kg</td>
</tr>
<tr>
<td>Net Weight</td>
<td>4.1 lbs, 1.86 kg</td>
</tr>
<tr>
<td>Overall Diameter</td>
<td>6.06&quot;, 153.9 mm</td>
</tr>
<tr>
<td>Baffle Hole Diameter</td>
<td>2.8&quot;, 71.1 mm</td>
</tr>
<tr>
<td>Front Sealing Gasket</td>
<td>Yes</td>
</tr>
<tr>
<td>Rear Sealing Gasket</td>
<td>Yes</td>
</tr>
<tr>
<td>Baffle Hole Diameter</td>
<td>3.5 mm</td>
</tr>
<tr>
<td>Overall Diameter</td>
<td>6.59&quot;, 167.4 mm</td>
</tr>
<tr>
<td>Flat to Flat Diameter</td>
<td>5.65&quot;, 143.5 mm</td>
</tr>
<tr>
<td>Major Diameter</td>
<td>6.06&quot;, 153.9 mm</td>
</tr>
<tr>
<td>Driver Volume Displaced</td>
<td>0.23&quot;, 5.84 mm</td>
</tr>
<tr>
<td>Recommended Enclosure Volume</td>
<td>0.2 cu.ft., 5.8 liters</td>
</tr>
</tbody>
</table>

**ENCLOSEMENT**

- **Recommended Enclosure Volume**
  - Sealed: 0.014 cu.ft., 0.41 liters
  - Vented: 0.23 cu.ft., 6.14 liters
  - Vented Box: 0.42 mm/N

**AMERICAN STANDARD SERIES**

**ALPHA-6A**

Very versatile and great sounding pro audio midranges in a sealed cabinet, or as a midbass in a vented satellite enclosure. A popular choice for car audio applications.

- **200 W Program Power**
- **6.5" Nominal Diameter**
- **Bass Guitar / Subwoofer / Horn Loading**

**SPECIFICATION**

- Nominal Diameter: 6.5", 165 mm
- Nominal Impedance: 8 or 4 Ω
- Power Rating: 200 W
- Sensitivity: 93.6 dB
- Usable Frequency Range: 87 Hz – 3.5 kHz
- Resonance: 103 Hz
- Nominal Power: 60 W
- Nominal Impedance: 8 or 4 Ω
- Form Factor: 4.80", 121.92 mm

**MATERIALS OF CONSTRUCTION**

- Copper voice coil
- Aluminum wire
cap
- Diamond impregnated cone
- Diamond impregnated cone dust cap
- Paper cone
- Expanded paper basket
- Cloth cone edge
- Gold compression paper dust cap

**THIELE & SMALL PARAMETERS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Measurements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Response &amp; Impedance Curve</td>
<td><img src="image2.png" alt="Graph" /></td>
</tr>
<tr>
<td>Nominal Diameter</td>
<td>6.5&quot;, 165 mm</td>
</tr>
<tr>
<td>Power Rating</td>
<td>200 W</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>93.6 dB</td>
</tr>
<tr>
<td>Usable Frequency Range</td>
<td>87 Hz – 3.5 kHz</td>
</tr>
<tr>
<td>Resonance</td>
<td>103 Hz</td>
</tr>
<tr>
<td>Nominal Power</td>
<td>60 W</td>
</tr>
<tr>
<td>Nominal Impedance</td>
<td>8 or 4 Ω</td>
</tr>
<tr>
<td>Form Factor</td>
<td>4.80&quot;, 121.92 mm</td>
</tr>
</tbody>
</table>

**APPLICATION**

- Midrange
- Midbass
- Scoop Loading
- Woofer
- Horn Loading

**MOUNTING INFORMATION**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Measurements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shipping Weight</td>
<td>4.8 lbs, 2.18 kg</td>
</tr>
<tr>
<td>Net Weight</td>
<td>4.1 lbs, 1.86 kg</td>
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<tr>
<td>Overall Diameter</td>
<td>7.2&quot;, 183 mm</td>
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<tr>
<td>Baffle Hole Diameter</td>
<td>3.5 mm</td>
</tr>
<tr>
<td>Overall Diameter</td>
<td>9.6&quot;, 243.8 mm</td>
</tr>
<tr>
<td>Flat to Flat Diameter</td>
<td>6.59&quot;, 167.4 mm</td>
</tr>
<tr>
<td>Major Diameter</td>
<td>6.06&quot;, 153.9 mm</td>
</tr>
<tr>
<td>Driver Volume Displaced</td>
<td>0.25&quot;, 6.4 mm</td>
</tr>
<tr>
<td>Recommended Enclosure Volume</td>
<td>0.24 – 0.5 cu.ft.</td>
</tr>
</tbody>
</table>

**ENCLOSEMENT**

- **Recommended Enclosure Volume**
  - Sealed: 0.018 cu.ft., 0.51 liters
  - Vented: 0.018 cu.ft., 0.51 liters
  - Vented Box: 0.12 – 0.28 cu.ft.

**Visit Eminence.com to find a dealer near you.**
**ALPHA-6CBMRA**

**Recommended for pro audio, car audio, and bass guitar midrange applications.**

Sealed basket affords this speaker enclosure independence.

- **200 W** Program Power
- **6"** Nominal Diameter
- **8Ω** Nominal Impedance

**APPLICATION**
- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

**MOUNTING INFORMATION**

<table>
<thead>
<tr>
<th>Enclosure</th>
<th>Sealed Box</th>
<th>Vented Box</th>
<th>Screw Loading</th>
<th>Horn Loading</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midrange</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Midbass</td>
<td></td>
<td>✓</td>
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<td></td>
</tr>
<tr>
<td>Woofer</td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Subwoofer</td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Bass Guitar</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**MATERIALS OF CONSTRUCTION**
- Copper voice coil
- Aluminum former
- Plastic magnet
- Non-woven cone
- Paper cone
- Cloth cone
- Gold compressed paper dust cap

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

*See footnotes on page 435 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.*

**Specifications**
- **Nominal Diameter:** 6.5", 165 mm
- **Nominal Impedance:** 8Ω
- **Power Rating:**
  - Program Power: 200 W
  - Nominal Power: 150 W
  - Program Power: 300 W
  - Nominal Power: 225 W
- **Usable Frequency Range:**
  - 407 Hz – 5 kHz
  - 60 Hz – 5.4 kHz
- **Sensitivity:**
  - 84 dB
  - 89 dB
  - 88 dB
- **Drivers:**
  - 6.5" Paper Cone
  - 1.5 mm Diameter
  - 2.7 mm Dia.
  - 0.2 mm Diameter
  - 0.22 mm Diameter
  - 0.23 mm Diameter
  - 1.24 mH
  - 0.56 mH
  - 0.36 mH
  - 0.33 mH
  - 2.7 cc
  - 5.9 cc
  - 5.08 cm
  - 371 Ω
  - 4.2 Ω

**LA6-CBMR**

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

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

**APPLICATION**
- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

**MOUNTING INFORMATION**

<table>
<thead>
<tr>
<th>Enclosure</th>
<th>Sealed Box</th>
<th>Vented Box</th>
<th>Screw Loading</th>
<th>Horn Loading</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midrange</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Midbass</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Woofer</td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Subwoofer</td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Bass Guitar</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**MATERIALS OF CONSTRUCTION**
- Copper voice coil
- Aluminum former
- Plastic magnet
- Non-woven cone
- Paper cone
- Cloth cone
- Gold compressed paper dust cap

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

*See footnotes on page 435 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.*

**Specifications**
- **Nominal Diameter:** 6.5", 165 mm
- **Nominal Impedance:** 8Ω
- **Power Rating:**
  - Program Power: 300 W
  - Nominal Power: 225 W
- **Usable Frequency Range:**
  - 407 Hz – 5 kHz
  - 60 Hz – 5.4 kHz
- **Sensitivity:**
  - 84 dB
  - 89 dB
  - 88 dB
- **Drivers:**
  - 6.5" Paper Cone
  - 1.5 mm Diameter
  - 2.7 mm Dia.
  - 0.2 mm Diameter
  - 0.22 mm Diameter
  - 0.23 mm Diameter
  - 1.24 mH
  - 0.56 mH
  - 0.33 mH
  - 2.7 cc
  - 5.9 cc
  - 5.08 cm
  - 371 Ω
  - 4.2 Ω

56

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**BETA-6A**

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

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

**APPLICATION**
- Midrange ✓
- Midbass ✓
- Woofer ✓
- Subwoofer ✓
- Bass Guitar ✓

**ENCLOSURE**
- Sealed Box ✓
- Vented Box ✓
- Screw Loading ✓
- Horn Loading ✓

---

**THIELE & SMALL PARAMETERS**

<table>
<thead>
<tr>
<th>Fs</th>
<th>723 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xo</td>
<td>16.7 Hz</td>
</tr>
<tr>
<td>Qx</td>
<td>0.56</td>
</tr>
<tr>
<td>Mms</td>
<td>0.43 mH</td>
</tr>
<tr>
<td>Xmax</td>
<td>20.0 oz.</td>
</tr>
<tr>
<td>BL</td>
<td>7.1 mm</td>
</tr>
<tr>
<td>Vas</td>
<td>67 cc</td>
</tr>
<tr>
<td>Qts</td>
<td>0.44 mH</td>
</tr>
<tr>
<td>Cms</td>
<td>4.5 mm</td>
</tr>
<tr>
<td>Qes</td>
<td>0.44 mH</td>
</tr>
<tr>
<td>Le</td>
<td>7.1 mm</td>
</tr>
<tr>
<td>Qms</td>
<td>4.5 mm</td>
</tr>
<tr>
<td>F0</td>
<td>123 Hz</td>
</tr>
<tr>
<td>Rs</td>
<td>8 Ω</td>
</tr>
<tr>
<td>Sd</td>
<td>129.9 cm²</td>
</tr>
<tr>
<td>Enclosure</td>
<td>0.12 cu.ft., 3.51 liters</td>
</tr>
</tbody>
</table>

**MOUNTING INFORMATION**

- **Recommended Enclosure Volume**
  - Sealed: 2.28-9999.99 liters
  - Vented: 0.21-9999.99 liters

---

**SPECIFICATION**

- **Nominal Basket Diameter**: 6.5", 165 mm
- **Nominal Impedance**: 8Ω
- **Power Rating**: 350 W
- **Usable Frequency Range**: 58 Hz – 5 kHz
- **Resonance**: 175 Hz
- **Nominal Power**: 250 W

---

**MATERIALS OF CONSTRUCTION**

- Aluminum voice coil
- Copper voice coil
- Paper cone
- Cloth cone
- Cloth cone

---

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

---

**AMERICAN STANDARD SERIES**

**ALPHA-8A**

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

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

**APPLICATION**
- Midrange ✓
- Midbass ✓
- Woofer ✓
- Subwoofer ✓
- Bass Guitar ✓

**ENCLOSURE**
- Sealed Box ✓
- Vented Box ✓
- Screw Loading ✓
- Horn Loading ✓

---

**THIELE & SMALL PARAMETERS**

<table>
<thead>
<tr>
<th>Fs</th>
<th>723 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xo</td>
<td>16.7 Hz</td>
</tr>
<tr>
<td>Qx</td>
<td>0.56</td>
</tr>
<tr>
<td>Mms</td>
<td>0.43 mH</td>
</tr>
<tr>
<td>Xmax</td>
<td>20.0 oz.</td>
</tr>
<tr>
<td>BL</td>
<td>7.1 mm</td>
</tr>
<tr>
<td>Vas</td>
<td>67 cc</td>
</tr>
<tr>
<td>Qts</td>
<td>0.44 mH</td>
</tr>
<tr>
<td>Cms</td>
<td>4.5 mm</td>
</tr>
<tr>
<td>Qes</td>
<td>0.44 mH</td>
</tr>
<tr>
<td>Le</td>
<td>7.1 mm</td>
</tr>
<tr>
<td>Qms</td>
<td>4.5 mm</td>
</tr>
<tr>
<td>F0</td>
<td>73 Hz</td>
</tr>
<tr>
<td>Rs</td>
<td>8 Ω</td>
</tr>
<tr>
<td>Sd</td>
<td>129.9 cm²</td>
</tr>
<tr>
<td>Enclosure</td>
<td>0.15 mm/N</td>
</tr>
</tbody>
</table>

**MOUNTING INFORMATION**

- **Recommended Enclosure Volume**
  - Sealed: 0.18-9999.99 cu.ft.

---

**SPECIFICATION**

- **Nominal Basket Diameter**: 8", 203 mm
- **Nominal Power**: 250 W
- **Usable Frequency Range**: 73 Hz – 200 kHz
- **Resonance**: 175 Hz
- **Nominal Power**: 250 W

---

**MATERIALS OF CONSTRUCTION**

- Copper voice coil
- Aluminium frame
- Aluminum magnet
- Paper cone
- Cloth cone
- Paper cone

---

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

---

**AMERICAN STANDARD SERIES**

**BETA-6A**

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

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

**APPLICATION**
- Midrange ✓
- Midbass ✓
- Woofer ✓
- Subwoofer ✓
- Bass Guitar ✓

**ENCLOSURE**
- Sealed Box ✓
- Vented Box ✓
- Screw Loading ✓
- Horn Loading ✓

---

**THIELE & SMALL PARAMETERS**

<table>
<thead>
<tr>
<th>Fs</th>
<th>723 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xo</td>
<td>16.7 Hz</td>
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<tr>
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<td>0.56</td>
</tr>
<tr>
<td>Mms</td>
<td>0.43 mH</td>
</tr>
<tr>
<td>Xmax</td>
<td>20.0 oz.</td>
</tr>
<tr>
<td>BL</td>
<td>7.1 mm</td>
</tr>
<tr>
<td>Vas</td>
<td>67 cc</td>
</tr>
<tr>
<td>Qts</td>
<td>0.44 mH</td>
</tr>
<tr>
<td>Cms</td>
<td>4.5 mm</td>
</tr>
<tr>
<td>Qes</td>
<td>0.44 mH</td>
</tr>
<tr>
<td>Le</td>
<td>7.1 mm</td>
</tr>
<tr>
<td>Qms</td>
<td>4.5 mm</td>
</tr>
<tr>
<td>F0</td>
<td>123 Hz</td>
</tr>
<tr>
<td>Rs</td>
<td>8 Ω</td>
</tr>
<tr>
<td>Sd</td>
<td>129.9 cm²</td>
</tr>
<tr>
<td>Enclosure</td>
<td>0.12 cu.ft., 3.51 liters</td>
</tr>
</tbody>
</table>

**MOUNTING INFORMATION**

- **Recommended Enclosure Volume**
  - Sealed: 2.28-9999.99 liters
  - Vented: 0.21-9999.99 liters

---

**SPECIFICATION**

- **Nominal Basket Diameter**: 6.5", 165 mm
- **Nominal Impedance**: 8Ω
- **Power Rating**: 350 W
- **Usable Frequency Range**: 58 Hz – 5 kHz
- **Resonance**: 175 Hz
- **Nominal Power**: 250 W

---

**MATERIALS OF CONSTRUCTION**

- Aluminum voice coil
- Copper voice coil
- Paper cone
- Cloth cone
- Cloth cone

---

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

*See footnotes on page 155 for information regarding usable frequency range, 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.

- 250 W Program Power
- 8” Nominal Diameter
- 8 Ω

**SPECIFICATION**

<table>
<thead>
<tr>
<th>Material of Construction</th>
<th>Paper cone edge</th>
<th>Paper cone</th>
<th>Pressed steel basket with open back</th>
<th>Paper cone</th>
<th>Paper cone edge</th>
<th>Solid composition paper dust cap</th>
</tr>
</thead>
</table>

**MOUNTING INFORMATION**

<table>
<thead>
<tr>
<th>Fs</th>
<th>514 Hz</th>
<th>Resonance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xmax</td>
<td>205 mm</td>
<td></td>
</tr>
<tr>
<td>Sd</td>
<td>1.6 mm</td>
<td></td>
</tr>
<tr>
<td>Xlim</td>
<td>205 mm</td>
<td></td>
</tr>
<tr>
<td>EBP</td>
<td>0.37 mm</td>
<td></td>
</tr>
<tr>
<td>Vd</td>
<td>245 mm</td>
<td></td>
</tr>
<tr>
<td>Vas</td>
<td>0.31 mm</td>
<td></td>
</tr>
<tr>
<td>Qts</td>
<td>1.4</td>
<td></td>
</tr>
<tr>
<td>Qes</td>
<td>0.34</td>
<td></td>
</tr>
<tr>
<td>Qms</td>
<td>3.7</td>
<td></td>
</tr>
<tr>
<td>Le</td>
<td>0.26</td>
<td></td>
</tr>
<tr>
<td>Re</td>
<td>8.9</td>
<td></td>
</tr>
<tr>
<td>Fs</td>
<td>514 Hz</td>
<td></td>
</tr>
<tr>
<td>Step</td>
<td>200 W</td>
<td></td>
</tr>
<tr>
<td>Step</td>
<td>500 W</td>
<td></td>
</tr>
<tr>
<td>Step</td>
<td>2000 W</td>
<td></td>
</tr>
<tr>
<td>Step</td>
<td>5000 W</td>
<td></td>
</tr>
</tbody>
</table>

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

**BETA-8A**

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

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

**SPECIFICATION**

<table>
<thead>
<tr>
<th>Material of Construction</th>
<th>Solid composition paper dust cap</th>
<th>Paper cone</th>
<th>Pressed steel basket with open back</th>
<th>Paper cone</th>
<th>Paper cone edge</th>
<th>Solid composition paper dust cap</th>
</tr>
</thead>
</table>

**MOUNTING INFORMATION**

<table>
<thead>
<tr>
<th>Fs</th>
<th>65 Hz</th>
<th>Resonance</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>Sd</td>
<td>1.6 mm</td>
<td></td>
</tr>
<tr>
<td>Xlim</td>
<td>205 mm</td>
<td></td>
</tr>
<tr>
<td>EBP</td>
<td>0.37 mm</td>
<td></td>
</tr>
<tr>
<td>Vd</td>
<td>245 mm</td>
<td></td>
</tr>
<tr>
<td>Vas</td>
<td>0.31 mm</td>
<td></td>
</tr>
<tr>
<td>Qts</td>
<td>1.4</td>
<td></td>
</tr>
<tr>
<td>Qes</td>
<td>0.34</td>
<td></td>
</tr>
<tr>
<td>Qms</td>
<td>3.7</td>
<td></td>
</tr>
<tr>
<td>Le</td>
<td>0.26</td>
<td></td>
</tr>
<tr>
<td>Re</td>
<td>8.9</td>
<td></td>
</tr>
<tr>
<td>Fs</td>
<td>65 Hz</td>
<td></td>
</tr>
<tr>
<td>Step</td>
<td>200 W</td>
<td></td>
</tr>
<tr>
<td>Step</td>
<td>500 W</td>
<td></td>
</tr>
<tr>
<td>Step</td>
<td>2000 W</td>
<td></td>
</tr>
<tr>
<td>Step</td>
<td>5000 W</td>
<td></td>
</tr>
</tbody>
</table>

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

**BETA-8CX**

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

- 500 W Program Power
- 8™ Nominal Diameter

Midbass
Midrange
Woofer
Subwoofer
Bass Guitar

Midbass
Midrange
Woofer
Subwoofer
Bass Guitar

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

**SPECIFICATION**

Nominal Diameter 8”, 203 mm
Nominal Impedance 8 Ω

Power Rating

Program Power 500 W
Nominal Power 250 W

Sensitivity* 92.9 dB

Resonance 62 Hz

USABLE FREQUENCY RESPONSE & IMPEDANCE CURVE

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>Impedance (Ω)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 Hz</td>
<td>8.0 Ω</td>
</tr>
<tr>
<td>1 kHz</td>
<td>6.5 Ω</td>
</tr>
<tr>
<td>10 kHz</td>
<td>4.1 Ω</td>
</tr>
</tbody>
</table>

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

**MATERIALS OF CONSTRUCTION**

Copper voice coil
Aluminum former
Pressed steel basket
Paper cone
Tapered cloth edge
Zerodur shell cap

**APPLICATION**

Sealed Enclosure

**ENCLOSURE**

Midrange
Midbass
Woofer
Subwoofer
Bass Guitar

**Visit Emine.com to find a dealer near you.**

---

**AMERICAN STANDARD SERIES**

**ALPHA-10A**

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

- 3000 W Program Power
- 16™ Nominal Diameter

Midbass
Midrange
Woofer
Subwoofer
Bass Guitar

Midrange
Midbass
Woofer
Subwoofer
Bass Guitar

**APPLICATION**

Sealed Enclosure

**ENCLOSURE**

Midrange
Midbass
Woofer
Subwoofer
Bass Guitar

**Visit Emine.com to find a dealer near you.**

---

**SPECIFICATION**

Nominal Diameter 18”, 457 mm
Nominal Impedance 8 Ω

Power Rating

Program Power 300 W
Nominal Power 100 W

Sensitivity* 95 dB

Resonance 50 Hz

USABLE FREQUENCY RESPONSE & IMPEDANCE CURVE

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>Impedance (Ω)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 Hz</td>
<td>8.0 Ω</td>
</tr>
<tr>
<td>1 kHz</td>
<td>6.5 Ω</td>
</tr>
<tr>
<td>10 kHz</td>
<td>4.1 Ω</td>
</tr>
</tbody>
</table>

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

**MATERIALS OF CONSTRUCTION**

Copper voice coil
Aluminum former
Pressed steel basket
Paper cone
Tapered cloth edge
Gold composition paper dust cap

**APPLICATION**

Sealed Enclosure

**ENCLOSURE**

Midrange
Midbass
Woofer
Subwoofer
Bass Guitar

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**AMERICAN STANDARD SERIES**

**BETA-10CBMRA**

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

- **400 W Program Power**
- **10" Nominal Diameter**
- **φ 254 mm**

**APPLICATION**
- **Midrange**
- **Midbass**
- **Woofer**
- **Subwoofer**
- **Bass Guitar**

**ENCLOSURE**
- **Sealed Box**
- **Vented Box**
- **Scoop Loading**
- **Nail Loading**

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

**MATERIALS OF CONSTRUCTION**
- Aluminum voice coil
- Alumalite former
- Cloth cone edge
- Paper cone
- Cloth cone edge
- Gold composition paper dust cap

**SPECIFICATION**

<table>
<thead>
<tr>
<th>Nominal Sound Diameter</th>
<th>10&quot; , 254 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Impedance*</td>
<td>8 Ω</td>
</tr>
<tr>
<td>Power Rating**</td>
<td>400 W</td>
</tr>
<tr>
<td>Recommended Enclosure Volume</td>
<td>Sealed</td>
</tr>
<tr>
<td>Mounting Information</td>
<td>Cross</td>
</tr>
<tr>
<td>Rear Sealing Gasket</td>
<td>Yes</td>
</tr>
<tr>
<td>Front Sealing Gasket</td>
<td>Yes</td>
</tr>
<tr>
<td>Baffle Hole Diameter</td>
<td>3.56&quot;, 90.4 mm</td>
</tr>
<tr>
<td>Overall Diameter</td>
<td>10.11' ', 256.8 mm</td>
</tr>
</tbody>
</table>

**THIELE & SMALL PARAMETERS**

| Fs  | 32.4 Hz |
| SL  | 6.38 ft |
| Qts | 0.04 |
| Qes | 0.014 |
| Qms | 0.21 |

**MATCHED IMPEDANCE**

<table>
<thead>
<tr>
<th>Magnet Weight</th>
<th>18 grams</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gap Height</td>
<td>0.007&quot;, 0.17 mm</td>
</tr>
<tr>
<td>Overall Diameter</td>
<td>10.11' ', 256.8 mm</td>
</tr>
</tbody>
</table>

**INPUT SIGNAL**

| Recommended Enclosure Volume | 0.039 cu.ft., 1.1 liters |
| Recommended Frequency Range  | 150 Hz – 3.8 kHz |

**APPLICATION**
- **Midrange**
- **Midbass**
- **Woofer**
- **Subwoofer**
- **Bass Guitar**

**ENCLOSURE**
- **Sealed Box**
- **Vented Box**
- **Scoop Loading**
- **Nail Loading**

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

**MATERIALS OF CONSTRUCTION**
- Aluminum voice coil
- Alumalite former
- Cloth cone edge
- Paper cone
- Cloth cone edge
- Gold composition paper dust cap

**SPECIFICATION**

<table>
<thead>
<tr>
<th>Nominal Sound Diameter</th>
<th>10&quot; , 254 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Impedance*</td>
<td>8 Ω</td>
</tr>
<tr>
<td>Power Rating**</td>
<td>500 W</td>
</tr>
<tr>
<td>Recommended Enclosure Volume</td>
<td>Sealed</td>
</tr>
<tr>
<td>Mounting Information</td>
<td>Cross</td>
</tr>
<tr>
<td>Rear Sealing Gasket</td>
<td>Yes</td>
</tr>
<tr>
<td>Front Sealing Gasket</td>
<td>Yes</td>
</tr>
<tr>
<td>Baffle Hole Diameter</td>
<td>0.3&quot;, 7.9 mm</td>
</tr>
<tr>
<td>Overall Diameter</td>
<td>0.23&quot;, 5.8 mm</td>
</tr>
</tbody>
</table>

**THIELE & SMALL PARAMETERS**

| Fs  | 53 Hz |
| SL  | 5.25 ft |
| Qts | 0.048 |
| Qes | 0.52 |
| Qms | 1.1 |

**MATCHED IMPEDANCE**

<table>
<thead>
<tr>
<th>Magnet Weight</th>
<th>97 lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gap Height</td>
<td>0.006&quot;, 0.15 mm</td>
</tr>
<tr>
<td>Overall Diameter</td>
<td>0.23&quot;, 5.8 mm</td>
</tr>
</tbody>
</table>

**INPUT SIGNAL**

| Recommended Enclosure Volume | 5.5–14.2 liters |
| Recommended Frequency Range  | 51 Hz – 3.4 kHz |

**BETA-10A**

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

- **500 W Program Power**
- **10" Nominal Diameter**
- **φ 254 mm**

**APPLICATION**
- **Midrange**
- **Midbass**
- **Woofer**
- **Subwoofer**
- **Bass Guitar**

**ENCLOSURE**
- **Sealed Box**
- **Vented Box**
- **Scoop Loading**
- **Nail Loading**

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

**MATERIALS OF CONSTRUCTION**
- Aluminum voice coil
- Alumalite former
- Cloth cone edge
- Paper cone
- Cloth cone edge
- Gold composition paper dust cap

**SPECIFICATION**

<table>
<thead>
<tr>
<th>Nominal Sound Diameter</th>
<th>10&quot; , 254 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Impedance*</td>
<td>8 Ω</td>
</tr>
<tr>
<td>Power Rating**</td>
<td>2.12 cu.ft., 60.1 liters</td>
</tr>
<tr>
<td>Recommended Enclosure Volume</td>
<td>Vented</td>
</tr>
<tr>
<td>Mounting Information</td>
<td>Cross</td>
</tr>
<tr>
<td>Rear Sealing Gasket</td>
<td>Yes</td>
</tr>
<tr>
<td>Front Sealing Gasket</td>
<td>Yes</td>
</tr>
<tr>
<td>Baffle Hole Diameter</td>
<td>2&quot;, 51 mm</td>
</tr>
<tr>
<td>Overall Diameter</td>
<td>9.76&quot;, 248.0 mm</td>
</tr>
</tbody>
</table>

**THIELE & SMALL PARAMETERS**

| Fs  | 51 Hz |
| SL  | 5.12 ft |
| Qts | 0.49 |
| Qes | 0.51 |
| Qms | 0.67 |

**MATCHED IMPEDANCE**

<table>
<thead>
<tr>
<th>Magnet Weight</th>
<th>8 oz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gap Height</td>
<td>0.004&quot;, 0.1 mm</td>
</tr>
<tr>
<td>Overall Diameter</td>
<td>0.23&quot;, 5.8 mm</td>
</tr>
</tbody>
</table>

**INPUT SIGNAL**

| Recommended Enclosure Volume | 0.23–0.5 cu.ft. |
| Recommended Frequency Range  | 51 Hz – 3.4 kHz |

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AMERICAN STANDARD SERIES

**BETA-10CX**

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

![Image of a BETA-10CX speaker]

**APPLICATION**

- Midbass
- Midrange
- Bass Guitar

**ENCLOSURE**

- Sealed Box
- Vented Box
- Scoop Loading
- Horn Loading

**SPECIFICATION**

- Nominal Diameter: 10", 254 mm
- Voice Coil Diameter: 2.16", 54.9 mm
- Gap Height: 0.37", 9.4 mm
- Mounting Diameter: 4.25", 108 mm
- Mounting Holes Diameter: 3.5 mm
- Depth: 9.4 mm, 191.1 mm
- Weight: 9.18 lbs, 4.17 kg

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

![Graph of frequency response and impedance curve]

**NOTES**

- The data for this coaxial woofer was calculated with the ASIO 1001 driver screwed into the woofer, but not active.
- See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

**MATERIALS OF CONSTRUCTION**

- Aluminium voice coil
- Expanded Pulp cone
- Expanded paper cone
- Cloth cone edge
- Cloth dust cap

**AMERICAN STANDARD SERIES**

**DELTA-10A**

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

![Image of a DELTA-10A speaker]

**APPLICATION**

- Midbass
- Midrange
- Bass Guitar

**ENCLOSURE**

- Sealed Box
- Vented Box
- Scoop Loading
- Horn Loading

**SPECIFICATION**

- Nominal Diameter: 10", 254 mm
- Voice Coil Diameter: 2.5", 64 mm
- Gap Height: 1.08", 27.0 mm
- Mounting Diameter: 9.4 mm
- Mounting Holes Diameter: 3.5 mm
- Depth: 9.4 mm, 191.1 mm
- Weight: 10.08 lbs, 4.56 kg

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

![Graph of frequency response and impedance curve]

**NOTES**

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

**MATERIALS OF CONSTRUCTION**

- Aluminium voice coil
- Expanded Pulp cone
- Expanded paper cone
- Cloth cone edge
- Cloth dust cap

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**AMERICAN STANDARD SERIES**

**ALPHA-12A**

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

- **300 W** Program Power
- **12”** Nominal Diameter
- **8 Ω** Nominal Impedance
- **450 W** Program Power
- **500 W** Nominal Power
- **225 W** Program Power
- **450 W** Nominal Power

**MOUNTING INFORMATION**

- **Enclosure Type**: Sealed Box
- **Shipping Weight**: 7.37 Ω
- **Net Weight**: 82 lbs, 36.7 kg
- **Recommended Enclosure Volume**: 4.73”, 120.1 mm
- **Overall Diameter**: 6.44”, 163.5 mm
- **Depth**: 9.07”, 230.2 mm
- **Recommended Enclosure Volume**: 250 cc

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

**SPECIFICATION**

- **Nominal Diameter**: 12”
- **Nominal Impedance**: 8 Ω
- **Power Rating**: 450 W
- **Sensitivity**: 97.3 dB
- **Nominal Power**: 125 W
- **Program Power**: 60 W

**MATERIALS OF CONSTRUCTION**

- Copper voice coil
- Aluminum former
- Paper cone
- Cloth cone
- Gold composition paper dust cap

**BETA-12LTA**

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

- **450 W** Program Power
- **12”** Nominal Diameter
- **8 Ω** Nominal Impedance

**MOUNTING INFORMATION**

- **Enclosure Type**: Sealed Box
- **Shipping Weight**: 10.2 lbs, 4.63 kg
- **Net Weight**: 8.1 lbs, 3.67 kg
- **Recommended Enclosure Volume**: 4.47”, 113.5 mm
- **Overall Diameter**: 4.23”, 107.0 mm
- **Depth**: 3.2 mm
- **Recommended Enclosure Volume**: 0.071 cu.ft., 2 liters

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

**SPECIFICATION**

- **Nominal Diameter**: 12”
- **Nominal Impedance**: 8 Ω
- **Power Rating**: 450 W
- **Sensitivity**: 97.3 dB
- **Nominal Power**: 125 W
- **Program Power**: 60 W

**MATERIALS OF CONSTRUCTION**

- Copper voice coil
- Aluminum former
- Paper cone
- Cloth cone
- Gold composition paper dust cap

**VISIT EMINENCE.COM TO FIND A DEALER NEAR YOU.**
### AMERICAN STANDARD SERIES

#### BETA-12A-2

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

- **500 W Program Power**
- **12” Nominal Diameter**
- **8 Ohm**

#### Materials of Construction

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voice cone</td>
<td>Paper cone</td>
</tr>
<tr>
<td>Punched basket</td>
<td>Paper cone</td>
</tr>
<tr>
<td>Grill cloth</td>
<td>Gold compatible paper dust cap</td>
</tr>
</tbody>
</table>

#### Gap Height

- **40 mm**

#### Frequency Response & Impedance Curve

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

#### Application

<table>
<thead>
<tr>
<th>Midrange</th>
<th>Midbass</th>
<th>Woofer</th>
<th>Subwoofer</th>
<th>Bass Guitar</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

#### Enclosure

- ✔️ Sealed Box
- ✔️ Vented Box
- ✔️ Scoop Loading
- ✔️ Horn Loading

### THIELE & SMALL PARAMETERS

<table>
<thead>
<tr>
<th>Fo</th>
<th>47 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qts</td>
<td>0.49</td>
</tr>
<tr>
<td>Qcs</td>
<td>1.0</td>
</tr>
<tr>
<td>Qms</td>
<td>6.9-4.9</td>
</tr>
<tr>
<td>Nominal Power</td>
<td>500 W</td>
</tr>
<tr>
<td>Program Power</td>
<td>500 W</td>
</tr>
<tr>
<td>Nominal Diameter</td>
<td>12&quot;</td>
</tr>
<tr>
<td>Nominal Impedance</td>
<td>8 Ohm</td>
</tr>
<tr>
<td>Nominal Frequency Range</td>
<td>57 Hz - 4.6 kHz</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>97.3 dB</td>
</tr>
<tr>
<td>Resonance</td>
<td>50 Hz</td>
</tr>
<tr>
<td>Horn Loading</td>
<td>✔️</td>
</tr>
<tr>
<td>Scoop Loading</td>
<td>✔️</td>
</tr>
<tr>
<td>Vented Box</td>
<td>✔️</td>
</tr>
<tr>
<td>Sealed</td>
<td>✔️</td>
</tr>
<tr>
<td>Vented</td>
<td>✔️</td>
</tr>
<tr>
<td>Sealed</td>
<td>✔️</td>
</tr>
</tbody>
</table>

#### Mounting Information

- **Overall Diameter | 4.47" (113.5 mm)***
- **Mounting Holes Diameter | 0.4 mm (6.4 mm)***
- **Baffle Hole Diameter | 0.257", 6.5 mm***
- **Net Weight | 5.9 lbs, 2.7 kg***
- **Shipping Weight | 9.7 lbs, 4.4 kg***

#### Frequency Response & Impedance Curve

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

### American Standard Series

#### BETA-12CX

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

- **500 W Program Power**
- **12” Nominal Diameter**
- **8 Ohm**

#### Materials of Construction

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voice cone</td>
<td>Paper cone</td>
</tr>
<tr>
<td>Punched basket</td>
<td>Paper cone</td>
</tr>
<tr>
<td>Grill cloth</td>
<td>Gold compatible paper dust cap</td>
</tr>
</tbody>
</table>

#### Gap Height

- **28 mm**

#### Frequency Response & Impedance Curve

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

#### Application

<table>
<thead>
<tr>
<th>Midrange</th>
<th>Midbass</th>
<th>Woofer</th>
<th>Subwoofer</th>
<th>Bass Guitar</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

#### Enclosure

- ✔️ Sealed Box
- ✔️ Vented Box
- ✔️ Scoop Loading
- ✔️ Horn Loading

### THIELE & SMALL PARAMETERS

<table>
<thead>
<tr>
<th>Fo</th>
<th>47 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qts</td>
<td>0.49</td>
</tr>
<tr>
<td>Qcs</td>
<td>1.0</td>
</tr>
<tr>
<td>Qms</td>
<td>6.9-4.9</td>
</tr>
<tr>
<td>Nominal Power</td>
<td>500 W</td>
</tr>
<tr>
<td>Program Power</td>
<td>500 W</td>
</tr>
<tr>
<td>Nominal Diameter</td>
<td>12&quot;</td>
</tr>
<tr>
<td>Nominal Impedance</td>
<td>8 Ohm</td>
</tr>
<tr>
<td>Nominal Frequency Range</td>
<td>57 Hz - 4.6 kHz</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>97.3 dB</td>
</tr>
<tr>
<td>Resonance</td>
<td>50 Hz</td>
</tr>
<tr>
<td>Horn Loading</td>
<td>✔️</td>
</tr>
<tr>
<td>Scoop Loading</td>
<td>✔️</td>
</tr>
<tr>
<td>Vented Box</td>
<td>✔️</td>
</tr>
<tr>
<td>Sealed</td>
<td>✔️</td>
</tr>
<tr>
<td>Vented</td>
<td>✔️</td>
</tr>
<tr>
<td>Sealed</td>
<td>✔️</td>
</tr>
</tbody>
</table>

#### Mounting Information

- **Overall Diameter | 4.47", 113.5 mm***
- **Mounting Holes Diameter | 0.4 mm (6.4 mm)***
- **Baffle Hole Diameter | 0.257", 6.5 mm***
- **Net Weight | 5.1 lbs, 2.3 kg***
- **Shipping Weight | 9.7 lbs, 4.4 kg***

#### Frequency Response & Impedance Curve

* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.
**DELTA-12A**

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

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

### THIELE & SMALL PARAMETERS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Power</td>
<td>800 W</td>
</tr>
<tr>
<td>Nominal Impedance</td>
<td>8 Ω</td>
</tr>
<tr>
<td>Sensitivity*</td>
<td>98.3 dB</td>
</tr>
<tr>
<td>Usable Frequency Range</td>
<td>55 Hz – 3 kHz</td>
</tr>
</tbody>
</table>

### MOUNTING INFORMATION

<table>
<thead>
<tr>
<th>Mounting Information</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure</td>
<td>Sealed Box</td>
</tr>
<tr>
<td>Mounting Material</td>
<td>Vented Box</td>
</tr>
<tr>
<td>Midrange</td>
<td></td>
</tr>
<tr>
<td>Midbass</td>
<td></td>
</tr>
<tr>
<td>Woofer</td>
<td></td>
</tr>
<tr>
<td>Subwoofer</td>
<td></td>
</tr>
<tr>
<td>Bass Guitar</td>
<td></td>
</tr>
</tbody>
</table>

### SPECIFICATION

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voice Coil Diameter</td>
<td>8” – 205 mm</td>
</tr>
<tr>
<td>Gap Height</td>
<td>9.9 mm</td>
</tr>
<tr>
<td>Magneit Weight</td>
<td>56 oz</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>98.3 dB</td>
</tr>
<tr>
<td>Usable Frequency Range</td>
<td>55 Hz – 3 kHz</td>
</tr>
</tbody>
</table>

### MATERIALS OF CONSTRUCTION

- Aluminum voice coil
- Ferrite magnet
- Cloth cone edge
- Paper cone
- Pressed steel basket
- Polyimide former
- Aluminum voice coil
- Cloth cone edge
- Paper cone
- Cloth cone edge

### FREQUENCY RESPONSE & IMPEDANCE CURVE

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

---

**DELTA-12LFA**

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

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

### THIELE & SMALL PARAMETERS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Power</td>
<td>1000 W</td>
</tr>
<tr>
<td>Nominal Impedance</td>
<td>4 Ω</td>
</tr>
<tr>
<td>Sensitivity*</td>
<td>94.6 dB</td>
</tr>
<tr>
<td>Usable Frequency Range</td>
<td>30 Hz – 3 kHz</td>
</tr>
</tbody>
</table>

### MOUNTING INFORMATION

<table>
<thead>
<tr>
<th>Mounting Information</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure</td>
<td>Sealed Box</td>
</tr>
<tr>
<td>Mounting Material</td>
<td>Vented Box</td>
</tr>
<tr>
<td>Midrange</td>
<td></td>
</tr>
<tr>
<td>Midbass</td>
<td></td>
</tr>
<tr>
<td>Woofer</td>
<td></td>
</tr>
<tr>
<td>Subwoofer</td>
<td></td>
</tr>
<tr>
<td>Bass Guitar</td>
<td></td>
</tr>
</tbody>
</table>

### SPECIFICATION

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voice Coil Diameter</td>
<td>12” – 305 mm</td>
</tr>
<tr>
<td>Gap Height</td>
<td>13.5 mm</td>
</tr>
<tr>
<td>Magneit Weight</td>
<td>3.5 lbs</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>94.6 dB</td>
</tr>
<tr>
<td>Usable Frequency Range</td>
<td>30 Hz – 3 kHz</td>
</tr>
</tbody>
</table>

### MATERIALS OF CONSTRUCTION

- Copper voice coil
- Ferrite magnet
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

### FREQUENCY RESPONSE & IMPEDANCE CURVE

*See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.
**KAPPA-12A**

Recommended for professional audio as a midrange or full range in a vented enclosure.

- **Nominal Diameter**: 12". 
- **Nominal Impedance**: 8 Ω. 
- **Program Power**: 900 W. 
- **Nominal Power**: 8 Ω. 
- **Sensitivity**: 99.3 dB. 
- **Recommended Enclosure Volume**: 3.96 cu.ft., 112.1 liters. 

**ESPECIFICATIONS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nominal Diameter</strong></td>
<td>12&quot; 305 mm</td>
</tr>
<tr>
<td><strong>Magnet Weight</strong></td>
<td>25 oz. 714 g</td>
</tr>
<tr>
<td><strong>Gap Height</strong></td>
<td>1.58&quot;, 40 mm</td>
</tr>
<tr>
<td><strong>Overall Diameter</strong></td>
<td>12&quot;, 305 mm</td>
</tr>
<tr>
<td><strong>Shipping Weight</strong></td>
<td>14.9 lbs, 6.76 kg</td>
</tr>
</tbody>
</table>

**MATERIALS OF CONSTRUCTION**

- Aluminum voice coil
- Cloth cone edge
- Solid composition paper dust cap
- Cloth cone
- Aluminum voice coil
- Cloth cone
- Solid composition paper dust cap

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

**THIELE & SMALL PARAMETERS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Voice Coil Diameter</strong></td>
<td>4&quot;, 101 mm</td>
</tr>
<tr>
<td><strong>Gap Height</strong></td>
<td>0.25&quot;, 6.4 mm</td>
</tr>
<tr>
<td><strong>Driver Volume Displaced</strong></td>
<td>325 cc, 5.2 liters</td>
</tr>
<tr>
<td><strong>Mounting Holes Diameter</strong></td>
<td>0.25&quot;, 6.4 mm</td>
</tr>
<tr>
<td><strong>Shipping Weight</strong></td>
<td>0.25 mm/N</td>
</tr>
</tbody>
</table>

**ENCLOSEMENT**

- Sealed Box
- Vented Box
- Horn Loading

**APPLICATION**

- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

**MOUNTING INFORMATION**

- Front Sealing Gasket
- Rear Sealing Gasket
- Baffle Hole Diameter
- Overall Diameter
- Driver Volume Displaced
- Recommended Enclosure Volume

**ALPHA-15A**

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

- **Nominal Diameter**: 15". 
- **Nominal Impedance**: 8 Ω. 
- **Program Power**: 600 W. 
- **Nominal Power**: 8 Ω. 
- **Sensitivity**: 97 dB. 
- **Recommended Enclosure Volume**: 3.5 cu.ft., 99.3 liters. 

**ESPECIFICATIONS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nominal Diameter</strong></td>
<td>15&quot;, 381 mm</td>
</tr>
<tr>
<td><strong>Magnet Weight</strong></td>
<td>25 oz. 714 g</td>
</tr>
<tr>
<td><strong>Gap Height</strong></td>
<td>1.5&quot;, 38 mm</td>
</tr>
<tr>
<td><strong>Overall Diameter</strong></td>
<td>15&quot;, 381 mm</td>
</tr>
<tr>
<td><strong>Shipping Weight</strong></td>
<td>16.7 lbs, 7.61 kg</td>
</tr>
</tbody>
</table>

**MATERIALS OF CONSTRUCTION**

- Copper voice coil
- Aluminum voice coil
- Cloth cone edge
- Cloth cone
- Solid composition paper dust cap

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

**THIELE & SMALL PARAMETERS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Voice Coil Diameter</strong></td>
<td>4&quot;, 101 mm</td>
</tr>
<tr>
<td><strong>Gap Height</strong></td>
<td>0.25&quot;, 6.4 mm</td>
</tr>
<tr>
<td><strong>Driver Volume Displaced</strong></td>
<td>325 cc, 5.2 liters</td>
</tr>
<tr>
<td><strong>Mounting Holes Diameter</strong></td>
<td>0.25&quot;, 6.4 mm</td>
</tr>
<tr>
<td><strong>Shipping Weight</strong></td>
<td>0.25 mm/N</td>
</tr>
</tbody>
</table>

**ENCLOSEMENT**

- Sealed Box
- Vented Box
- Horn Loading

**APPLICATION**

- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

**MOUNTING INFORMATION**

- Front Sealing Gasket
- Rear Sealing Gasket
- Baffle Hole Diameter
- Overall Diameter
- Driver Volume Displaced
- Recommended Enclosure Volume

Additional notes:

- **Nominal Diameter**: 12".
- **Sensitivity**: 99.3 dB.
- **Shipping Weight**: 14.9 lbs, 6.76 kg.
**AMERICAN STANDARD SERIES**

**BETA-15A**

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

- **600 W Program Power**
- **130° Nominal Diameter**
- **8 Ω or 16 Ω**

**SPECIFICATION**

<table>
<thead>
<tr>
<th>Fo</th>
<th>35 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE</td>
<td>6.60 Ω</td>
</tr>
<tr>
<td>DC</td>
<td>7.1 Ω</td>
</tr>
<tr>
<td>DCR</td>
<td>6.8 Ω</td>
</tr>
</tbody>
</table>

**THEILE & SMALL PARAMETERS**

- **Usable Frequency Range**: 45 Hz – 3.7 kHz
- **Resonance**: 48 Hz
- **Nominal Power**: 480 W
- **Program Power**: 800 W
- **Nominal Impedance**: 8 Ω
- **Power Rating**: 800 W
- **Nominal Diameter**: 15.7, 399.1 mm
- **Magnet Weight**: 56 oz.
- **Sensitivity**: 90 dB
- **Gap Height**: 0.237, 6.05 mm
- **Shipping Weight**: 15.8 lbs, 7.2 kg

**MOUNTING INFORMATION**

<table>
<thead>
<tr>
<th>Fo</th>
<th>35 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE</td>
<td>6.60 Ω</td>
</tr>
<tr>
<td>DC</td>
<td>7.1 Ω</td>
</tr>
<tr>
<td>DCR</td>
<td>6.8 Ω</td>
</tr>
</tbody>
</table>

**MATERIALS OF CONSTRUCTION**

- Copper voice coil
- Aluminum frame
- Cast aluminum frame
- Vent and extended cone
- Cloth cone edge
- Gold compression paper dust cap

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

![Frequency Response and Impedance Curve](image)

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

**DELTA-15A**

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

- **800 W Program Power**
- **130° Nominal Diameter**
- **8 Ω or 16 Ω**

**SPECIFICATION**

<table>
<thead>
<tr>
<th>Fo</th>
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</thead>
<tbody>
<tr>
<td>SE</td>
<td>6.60 Ω</td>
</tr>
<tr>
<td>DC</td>
<td>7.1 Ω</td>
</tr>
<tr>
<td>DCR</td>
<td>6.8 Ω</td>
</tr>
</tbody>
</table>

**THEILE & SMALL PARAMETERS**

- **Usable Frequency Range**: 45 Hz – 3.7 kHz
- **Resonance**: 48 Hz
- **Nominal Power**: 480 W
- **Program Power**: 800 W
- **Nominal Impedance**: 8 Ω
- **Power Rating**: 800 W
- **Nominal Diameter**: 15.7, 399.1 mm
- **Magnet Weight**: 56 oz.
- **Sensitivity**: 90 dB
- **Gap Height**: 0.237, 6.05 mm
- **Shipping Weight**: 15.8 lbs, 7.2 kg

**MOUNTING INFORMATION**

<table>
<thead>
<tr>
<th>Fo</th>
<th>40 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE</td>
<td>6.60 Ω</td>
</tr>
<tr>
<td>DC</td>
<td>7.1 Ω</td>
</tr>
<tr>
<td>DCR</td>
<td>6.8 Ω</td>
</tr>
</tbody>
</table>

**MATERIALS OF CONSTRUCTION**

- Copper voice coil
- Aluminum frame
- Cast aluminum frame
- Vent and extended cone
- Cloth cone edge
- Gold compression paper dust cap

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

![Frequency Response and Impedance Curve](image)

*See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.
DELTA-15LFA

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

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

**Specification**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>DELTA-15LFA</th>
<th>KAPPA-15A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Power</td>
<td>1000 W</td>
<td>900 W</td>
</tr>
<tr>
<td>Nominal Impedance</td>
<td>8 Ω</td>
<td>4 Ω</td>
</tr>
<tr>
<td>Power Rating*</td>
<td>1500 W</td>
<td>900 W</td>
</tr>
<tr>
<td>Nominal Basket Diameter</td>
<td>165 mm</td>
<td>152 mm</td>
</tr>
<tr>
<td>Voice Coil Diameter</td>
<td>39 mm</td>
<td>39 mm</td>
</tr>
<tr>
<td>Gap Height</td>
<td>0.375&quot;, 9.5 mm</td>
<td>0.33&quot;, 8.4 mm</td>
</tr>
<tr>
<td>Magnet Weight</td>
<td>370 oz.</td>
<td>235 oz.</td>
</tr>
<tr>
<td>Sensitivity*</td>
<td>96 dB</td>
<td>98 dB</td>
</tr>
<tr>
<td>Usable Frequency Range</td>
<td>45–200 Hz</td>
<td>33 Hz–200 Hz</td>
</tr>
</tbody>
</table>

**Applications**

- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

**Materials of Construction**

- Solid composition paper dust cap
- Cloth cone edge
- Paper cone
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

**Mounting Information**

- Recommended Enclosure Volume: 34.4–42.5 liters
- Net Weight: 12.9 lb., 5.91 kg
- Shipping Weight: 14.8 lb., 6.71 kg
- Overall Diameter: 16.5 mm
- Shipping Hole Diameter: 2.3", 64 mm
- Mounting Hole: 2.3", 64 mm
- Mounting Hole B.C.D.: 0.25", 6.4 mm
- Baffle Hole Diameter: 0.237", 5.5 mm
- Front Sealing Gasket: 0.25", 6.4 mm
- Rear Sealing Gasket: 0.25", 6.4 mm

**Frequency Response & Impedance Curve**

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

---

KAPPA-15A

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

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

**Specification**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>DELTA-15LFA</th>
<th>KAPPA-15A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Power</td>
<td>1000 W</td>
<td>900 W</td>
</tr>
<tr>
<td>Nominal Impedance</td>
<td>8 Ω</td>
<td>4 Ω</td>
</tr>
<tr>
<td>Power Rating*</td>
<td>1500 W</td>
<td>900 W</td>
</tr>
<tr>
<td>Nominal Basket Diameter</td>
<td>165 mm</td>
<td>152 mm</td>
</tr>
<tr>
<td>Voice Coil Diameter</td>
<td>39 mm</td>
<td>39 mm</td>
</tr>
<tr>
<td>Gap Height</td>
<td>0.375&quot;, 9.5 mm</td>
<td>0.33&quot;, 8.4 mm</td>
</tr>
<tr>
<td>Magnet Weight</td>
<td>370 oz.</td>
<td>235 oz.</td>
</tr>
<tr>
<td>Sensitivity*</td>
<td>96 dB</td>
<td>98 dB</td>
</tr>
<tr>
<td>Usable Frequency Range</td>
<td>45–200 Hz</td>
<td>33 Hz–200 Hz</td>
</tr>
</tbody>
</table>

**Applications**

- Midrange
- Midbass
- Woofer
- Subwoofer
- Bass Guitar

**Materials of Construction**

- Solid composition paper dust cap
- Cloth cone edge
- Paper cone
- Pressed steel basket
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

**Mounting Information**

- Recommended Enclosure Volume: 34.4–42.5 liters
- Net Weight: 12.9 lb., 5.91 kg
- Shipping Weight: 14.8 lb., 6.71 kg
- Overall Diameter: 16.5 mm
- Shipping Hole Diameter: 2.3", 64 mm
- Mounting Hole: 2.3", 64 mm
- Mounting Hole B.C.D.: 0.25", 6.4 mm
- Baffle Hole Diameter: 0.237", 5.5 mm
- Front Sealing Gasket: 0.25", 6.4 mm
- Rear Sealing Gasket: 0.25", 6.4 mm

**Frequency Response & Impedance Curve**

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

---
**Kappa-15LFA**

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

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

### Materials of Construction

- Copper voice coil
- Magnesium former
- Ferrite magnet
- Polyimide former
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

### Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Basket Diameter</td>
<td>15”, 381 mm</td>
</tr>
<tr>
<td>Nominal Impedance*</td>
<td>8 Ω</td>
</tr>
<tr>
<td>Power Rating**</td>
<td>1200 W</td>
</tr>
<tr>
<td>Program Power</td>
<td>1200 W</td>
</tr>
<tr>
<td>Nominal Power</td>
<td>600 W</td>
</tr>
<tr>
<td>Resonance</td>
<td>39 Hz</td>
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<tr>
<td>Usable Frequency Range</td>
<td>39 Hz – 2.7 kHz</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>99.00</td>
</tr>
<tr>
<td>Magnet Weight</td>
<td>15 oz</td>
</tr>
<tr>
<td>Gap Height</td>
<td>0.273” / 0.5 mm</td>
</tr>
<tr>
<td>Voice Coil Diameter</td>
<td>2” / 51.0 mm</td>
</tr>
</tbody>
</table>

### Mounting Information

<table>
<thead>
<tr>
<th>Application</th>
<th>Enclosure</th>
<th>Recommended Enclosure Volume</th>
<th>Sealed</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
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<td>Midrange</td>
<td>Sealed Box</td>
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</tr>
<tr>
<td>Midbass</td>
<td>Vented</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Woofer</td>
<td>Scoop</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Subwoofer</td>
<td>Horn</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bass Guitar</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Frequency Response & Impedance Curve

![Frequency Response & Impedance Curve](image)

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

---

**A NEW STANDARD
IN HIGH FREQUENCY.**

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 complement 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 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.

---

From high quality compression drivers to well-designed horn flares and crossovers, Eminence has an HF device to complete your loudspeaker system.

**Compression Drivers .......... 82**
**Supertweeter options .......... 87**
**Horn Flares .......... 88**
**Adapters and hardware .......... 89**
**Horn/Driver Usage Guide .......... 89**
**Crossovers .......... 90**

Visit Eminence.com to find a dealer near you.
See Driver and Horn Flare usage guide on page 89 for product compatibility.

**Compression Drivers**

### APT:50

**Specification**
- **Thread Size**: 1.0", 25.4 mm
- **Nominal Impedance**: 4 ohm
- **Minimum Impedance**: 3.0 ohm @ 1 kHz
- **Power Rating**: 35 W (RMS)
- **Resonance**: 500 Hz
- **DC Resistance (Ohm)**: 4.34
- **Effective Frequency Range**: 3.5 kHz / 20 kHz
- **Recommended Crossover**: 2.5 kHz / 14 kHz
- **Sensitivity**: 89.4 dB
- **Diaphragm Material**: Kapton
- **Voice Coil Former**: Aluminum
- **Magnet Weight**: 1.77 lb, 0.8 kg
- **Throat Size**: 2.0", 51 mm

**Mounting Information**
- **Overall Diameter**: 5.25", 133.4 mm
- **Driver Volume Displaced**: 0.018 cu ft, 0.51 liters
- **Depth**: 2.25", 57 mm
- **Net Weight**: 5.67 lb, 2.5 kg
- **Shipping Weight**: 5.86 lb, 2.6 kg
- **Mounting Thread**: 1.00-24 UNF
- **Mounting Holes Diameter**: 3.00", 76.2 mm
- **Notes**: N/A

**Frequency Response & Impedance Curve**

### ASD:1001

**Specification**
- **Thread Size**: 1.0", 25.4 mm
- **Nominal Impedance**: 8 ohm
- **Minimum Impedance**: 7.7 ohm @ 1 kHz
- **Power Rating**: 50 W (RMS)
- **Resonance**: 500 Hz
- **DC Resistance (Ohm)**: 4.70
- **Effective Frequency Range**: 3.5 kHz / 20 kHz
- **Recommended Crossover**: 2.5 kHz / 14 kHz
- **Sensitivity**: 89.4 dB
- **Diaphragm Material**: Kapton
- **Voice Coil Former**: Aluminum
- **Magnet Weight**: 1.77 lb, 0.8 kg
- **Throat Size**: 2.0", 51 mm

**Mounting Information**
- **Overall Diameter**: 5.25", 133.4 mm
- **Driver Volume Displaced**: 0.018 cu ft, 0.51 liters
- **Depth**: 2.25", 57 mm
- **Net Weight**: 5.67 lb, 2.5 kg
- **Shipping Weight**: 5.86 lb, 2.6 kg
- **Mounting Thread**: 1.00-24 UNF
- **Mounting Holes Diameter**: 3.00", 76.2 mm
- **Notes**: N/A

**Frequency Response & Impedance Curve**

### PSD:2002

**Specification**
- **Thread Size**: 1.0", 25.4 mm
- **Nominal Impedance**: 8 ohm
- **Minimum Impedance**: 7.6 ohm @ 1 kHz
- **Power Rating**: 60 W (RMS)
- **Resonance**: 548 Hz
- **DC Resistance (Ohm)**: 4.10
- **Effective Frequency Range**: 2.5 kHz / 20 kHz
- **Recommended Crossover**: 1.2 kHz / 14 kHz
- **Sensitivity**: 89.3 dB
- **Diaphragm Material**: Titanium
- **Voice Coil Former**: Polyimide
- **Magnet Weight**: 34 oz, 0.96 kg
- **Throat Size**: 2.0", 51 mm

**Mounting Information**
- **Overall Diameter**: 5.25", 133.4 mm
- **Driver Volume Displaced**: 0.019 cu ft, 0.51 liters
- **Depth**: 2.0", 51 mm
- **Net Weight**: 5.68 lb, 2.6 kg
- **Shipping Weight**: 5.68 lb, 2.6 kg
- **Mounting Thread**: 1.50-24 UNF
- **Mounting Holes Diameter**: 29.1/8"-20 or 2.85" N/A
- **Mounting Holes Diameter**: 29.1/8"-20 or 2.85" N/A
- **Notes**: Titanium

**Frequency Response & Impedance Curve**

### PSD:2013

**Specification**
- **Thread Size**: 1.0", 25.4 mm
- **Nominal Impedance**: 8 ohm
- **Minimum Impedance**: 8.7 ohm @ 0.3 kHz
- **Power Rating**: 85 W (RMS)
- **Resonance**: 895 Hz
- **DC Resistance (Ohm)**: 6.80
- **Effective Frequency Range**: 1.5 kHz / 20 kHz
- **Recommended Crossover**: 1.5 kHz / 14 kHz
- **Sensitivity**: 89.6 dB
- **Diaphragm Material**: Ferrite
- **Voice Coil Former**: Polyimide
- **Magnet Weight**: 34 oz, 0.96 kg
- **Throat Size**: 2.0", 51 mm

**Mounting Information**
- **Overall Diameter**: 5.25", 133.4 mm
- **Driver Volume Displaced**: 0.019 cu ft, 0.51 liters
- **Depth**: 2.0", 51 mm
- **Net Weight**: 5.68 lb, 2.6 kg
- **Shipping Weight**: 5.68 lb, 2.6 kg
- **Mounting Thread**: 1.50-24 UNF
- **Mounting Holes Diameter**: 29.1/8"-20 or 2.85" N/A
- **Mounting Holes Diameter**: 29.1/8"-20 or 2.85" N/A
- **Notes**: Ferrite

**Frequency Response & Impedance Curve**

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* See footnotes on page 115 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

* See footnotes on page 115 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.
See Driver and Horn Flare usage guide on page 89 for product compatibility.

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

Visit eminence.com to find a dealer near you.

**PSD:3006**

### SPECIFICATION

<table>
<thead>
<tr>
<th>Thread Size</th>
<th>2.38&quot;, 60.6 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Impedance</td>
<td>8 Ω</td>
</tr>
<tr>
<td>Minimum Impedance</td>
<td>5.1 ohm @ 3.4 kHz</td>
</tr>
<tr>
<td>Power Rating</td>
<td>100 W (AES)</td>
</tr>
<tr>
<td>DC Resistance</td>
<td>576 kΩ</td>
</tr>
<tr>
<td>Voltage Frequency Range</td>
<td>800 Hz - 20 kHz</td>
</tr>
<tr>
<td>Recommended Crossover</td>
<td>1.5 kHz - 12 kHz</td>
</tr>
<tr>
<td>Sensitivity*</td>
<td>98 dB</td>
</tr>
<tr>
<td>Magnet Material</td>
<td>Neodymium</td>
</tr>
<tr>
<td>Magnet Weight</td>
<td>86 oz, 2.41 kg</td>
</tr>
<tr>
<td>Voice Coil Diameter</td>
<td>0.75&quot;, 19.1 mm</td>
</tr>
<tr>
<td>Voice Coil Former</td>
<td>Polypropylene</td>
</tr>
<tr>
<td>Diaphragm Material</td>
<td>Titanium or geodesic ribs for increased stiffness and break-up control</td>
</tr>
</tbody>
</table>

### MOUNTING INFORMATION

| Overall Diameter | 3.87", 98.3 mm |
| Driver Volume Displaced | 0.009 cu. ft, 0.23 liter |
| Depth | 1.75", 44.5 mm |
| Net Weight | 1.70 lb, 0.77 kg |
| Shipping Weight | 3.20 lb, 1.45 kg |
| Mounting Thread | 20-28 x 0.56 |
| Mounting Hole Diameter | 0.75", 19.1 mm |
| Mounting Hole B.C.D. | 0.90", 22.9 mm |

### FREQUENCY RESPONSE & IMPEDANCE CURVE

- See footnotes on pages 135 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

**NSD:2005**

### SPECIFICATION

| Thread Size | 1.0", 25.4 mm |
| Nominal Impedance* | 8 Ω |
| Minimum Impedance | 3.5 Ω @ 4.4 kHz |
| Power Rating | 20W (EIA-426-B) |
| DC Resistance (Re) | 578 Hz |
| Voltage Frequency Range | 1.5 kHz - 20 kHz |
| Recommended Crossover | 2.2 kHz |
| Sensitivity* | 93.4 dB |
| Magnet Material | Neodymium |
| Magnet Weight | 80 oz, 2.27 kg |
| Voice Coil Diameter | 2.0", 51 mm |
| Voice Coil Former | Polyimide |
| Diaphragm Material | Titanium |

### MOUNTING INFORMATION

| Overall Diameter | 6.70", 170 mm |
| Driver Volume Displaced | 0.056 cu. ft, 1.6 liter |
| Depth | 1.75", 44.5 mm |
| Net Weight | 2.00 lb, 0.9 kg |
| Shipping Weight | 4.60 lb, 2.1 kg |
| Mounting Thread | 2-56 |
| Mounting Hole Diameter | 0.75", 19.1 mm |
| Mounting Hole B.C.D. | 0.90", 22.9 mm |

### FREQUENCY RESPONSE & IMPEDANCE CURVE

- See footnotes on pages 135 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

**SUPERTWEETER OPTIONS**

- These APT horns are also sold separately without the driver.

**SD28**

- Soft dome tweeter

**APT:30**

- Horn loaded tweeter

**APT:80**

- APT 50 Driver with APT 80 horn

**APT:150**

- APT 150 Driver with APT 150 horn

**APT:200**

- APT 200 Driver with APT 200 horn

### Description

- Horn Type: N/A
- Nominal Impedance: 8 Ω
- Minimum Impedance: 4 Ω
- Power Rating: 100 W (AES)
- Resonance: 478 Hz
- Usable Frequency Range: 4 kHz - 20 kHz
- Sensitivity: 103 dB
- Dispersion: 80°
- DC Resistance: 8 Ω
- Recommended Crossover: 1.0 kHz / 12 dB

### Mounting Information

- Mounting Thread: BOLT-on
- Mounting Hole Diameter: 1.0", 25.4 mm
- Mounting Hole B.C.D.: 1.0", 25.4 mm

### Diaphragm Material

- Silk
- Mylar
- Phenolic

### Voice Coil Diameter

- 0.5", 12.7 mm

### Magnet Material

- Neodymium
- Ferrite
- Ferrite

### Weight

- 0.6 lb, 0.27 kg

### Horn Material

- N/A

**SD28 APT:50 Driver with SD28 Horn**

- Description: Soft dome tweeter
- Nominal Impedance: 8 Ω
- Minimum Impedance: 4 Ω
- Power Rating: 100 W (AES)
- Resonance: 478 Hz
- Usable Frequency Range: 4 kHz - 20 kHz
- Sensitivity: 103 dB
- Dispersion: 80°
- DC Resistance: 8 Ω
- Recommended Crossover: 1.0 kHz / 12 dB

### Mounting Information

- Mounting Thread: BOLT-on
- Mounting Hole Diameter: 1.0", 25.4 mm
- Mounting Hole B.C.D.: 1.0", 25.4 mm

### Diaphragm Material

- Silk
- Mylar

### Voice Coil Diameter

- 0.5", 12.7 mm

### Magnet Material

- Neodymium
- Ferrite

### Weight

- 0.6 lb, 0.27 kg

### Horn Material

- N/A
### HORN FLARES AND WAVEGUIDES

In addition to the horn flares listed below, the APT horns shown on page 87 are available separately for use with any driver with a 1 3/8" ext. thread.

#### WAVEGUIDE

<table>
<thead>
<tr>
<th>Type</th>
<th>Exponential</th>
<th>Directivity</th>
<th>Waveguide</th>
<th>Line Array Waveguide</th>
<th>Line Array Waveguide</th>
<th>Exponential</th>
<th>Exponential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Throat Size</td>
<td>1.0&quot;, 25.4 mm</td>
<td>1.4&quot;, 35.6 mm</td>
<td>2.0&quot;, 50.8 mm</td>
<td>1.0&quot;, 25.4 mm</td>
<td>1.4&quot;, 35.6 mm</td>
<td>2.0&quot;, 50.8 mm</td>
<td>1.0&quot;, 25.4 mm</td>
</tr>
<tr>
<td>Attachment Method</td>
<td>Bolt-on</td>
<td>Bolt-on</td>
<td>Bolt-on</td>
<td>Screw-on</td>
<td>Bolt-on</td>
<td>Bolt-on</td>
<td>Screw-on</td>
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<tr>
<td>Dispersion</td>
<td>90 x 40</td>
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<td>60 x 40</td>
<td>90 x 40</td>
<td>60 x 40</td>
<td>60 x 40</td>
<td>90 x 40</td>
</tr>
<tr>
<td>Recommended Crossover</td>
<td>1.8 kHz</td>
<td>1.8 kHz</td>
<td>1.8 kHz</td>
<td>1.8 kHz</td>
<td>1.8 kHz</td>
<td>1.8 kHz</td>
<td>1.8 kHz</td>
</tr>
<tr>
<td>Width/Height/Depth</td>
<td>11.6&quot; x 8.4&quot; x 6.5&quot;, 295 x 218 x 164 mm</td>
<td>3.5&quot; x 4.4&quot; x 4.4&quot;, 89 x 112 x 112 mm</td>
<td>5.2&quot; x 6.4&quot; x 7.1&quot;, 135 x 167 x 181 mm</td>
<td>5.99&quot; x 5.99&quot; x 4.26&quot;, 152 x 152 x 108.7 mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cut-Out 1</td>
<td>11.6&quot; x 8.4&quot; x 6.5&quot;, 295 x 218 x 164 mm</td>
<td>3.5&quot; x 4.4&quot; x 4.4&quot;, 89 x 112 x 112 mm</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cut-Out 2</td>
<td>11.3 x 6.2&quot;, 287 x 155 mm</td>
<td>6.5&quot; x 6.2&quot;, 165 x 165 mm</td>
<td>6.5&quot; x 6.2&quot;, 165 x 165 mm</td>
<td>6.5&quot; x 6.2&quot;, 165 x 165 mm</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Weight 1</td>
<td>5.1 lbs, 2.3 kg</td>
<td>2.3 lbs, 1.1 kg</td>
<td>2.3 lbs, 1.1 kg</td>
<td>2.3 lbs, 1.1 kg</td>
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<tr>
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<td>ABS</td>
<td>Aluminum</td>
<td>ABS</td>
<td>ABS</td>
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#### LINE ARRAY WAVEGUIDE

<table>
<thead>
<tr>
<th>Type</th>
<th>Exponential</th>
<th>Directivity</th>
<th>Line Array Waveguide</th>
<th>Line Array Waveguide</th>
<th>Exponential</th>
<th>Exponential</th>
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<tr>
<td>Throat Size</td>
<td>1.0&quot;, 25.4 mm</td>
<td>1.4&quot;, 35.6 mm</td>
<td>2.0&quot;, 50.8 mm</td>
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<td>1.4&quot;, 35.6 mm</td>
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</tr>
<tr>
<td>Attachment Method</td>
<td>Bolt-on</td>
<td>Bolt-on</td>
<td>Bolt-on</td>
<td>Bolt-on</td>
<td>Bolt-on</td>
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<tr>
<td>Dispersion</td>
<td>90 x 40</td>
<td>60 x 40</td>
<td>60 x 40</td>
<td>90 x 40</td>
<td>60 x 40</td>
<td>60 x 40</td>
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<tr>
<td>Recommended Crossover</td>
<td>1.8 kHz</td>
<td>1.8 kHz</td>
<td>1.8 kHz</td>
<td>1.8 kHz</td>
<td>1.8 kHz</td>
<td>1.8 kHz</td>
</tr>
<tr>
<td>Width/Height/Depth</td>
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</tr>
<tr>
<td>Weight 1</td>
<td>5.1 lbs, 2.3 kg</td>
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<td>Aluminum</td>
<td>ABS</td>
<td>ABS</td>
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### ADAPTERS AND HARDWARE

#### HA1-14

Aluminum adapter allows you to pair a 1" bolt-on horn or driver with a 1.4" bolt-on device.

#### HA1-2

Use this aluminum adapter to pair a 1.4" bolt-on horn or driver with a 2" bolt-on device.

#### B2S-A

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

#### S2B-A

Aluminum adapter converts screw-on driver to accept a bolt-on horn. 1.38" 18 ext. thread. driver to 2x 1/4-20 or 3x M6 horn.

### CABINET HARDWARE

#### Top Hat-Ch


### DRIVER AND HORN COMPATIBILITY

#### DRIVER

<table>
<thead>
<tr>
<th>N314T-8</th>
<th>N320T-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>H14EA</td>
<td>H2EA</td>
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</table>

#### HORN OPTION

<table>
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<tr>
<th>ASD:10015</th>
<th>N320T-8</th>
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<tr>
<td>N314T-8</td>
<td>N314T-8</td>
</tr>
<tr>
<td>ASD:2005S</td>
<td>ASD:2005S</td>
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</tbody>
</table>

#### DRIVER

<table>
<thead>
<tr>
<th>H2EA</th>
</tr>
</thead>
<tbody>
<tr>
<td>H2EA</td>
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</table>

#### HORN OPTION

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</tr>
<tr>
<td>ASD:2005S</td>
<td>ASD:2005S</td>
</tr>
</tbody>
</table>

### ISO-5 5" ISOLATION BOX

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

#### MATERIAL

<table>
<thead>
<tr>
<th>ABS</th>
</tr>
</thead>
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#### WEIGHT

<table>
<thead>
<tr>
<th>0.3 lbs, 0.69 kg</th>
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</thead>
</table>

#### DEPTH

<table>
<thead>
<tr>
<th>3.25&quot;, 82.6 mm</th>
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</thead>
</table>

#### MAJOR DIAMETER

<table>
<thead>
<tr>
<th>3.31&quot;, 83.8 mm</th>
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</thead>
</table>

#### FLAT TO FLAT DIAMETER

<table>
<thead>
<tr>
<th>3.56&quot;, 90.4 mm</th>
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</thead>
</table>

#### CUT-OUT

<table>
<thead>
<tr>
<th>3.56&quot;, 90.4 mm</th>
</tr>
</thead>
</table>
**Crossovers**

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.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>TYPE</th>
<th>CROSSOVER FREQUENCY</th>
<th>SLOPE</th>
<th>IMPEDANCE</th>
<th>POWER HANDLING</th>
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</thead>
<tbody>
<tr>
<td>PXB:250</td>
<td>Low-pass</td>
<td>250 Hz</td>
<td>12 dB/octave</td>
<td>8 Ω</td>
<td>600 W</td>
</tr>
<tr>
<td>PXB:500</td>
<td>Low-pass</td>
<td>500 Hz</td>
<td>12 dB/octave</td>
<td>8 Ω</td>
<td>600 W</td>
</tr>
<tr>
<td>PXB:1K6</td>
<td>High-pass</td>
<td>1.6 kHz</td>
<td>18 dB/octave</td>
<td>8 Ω</td>
<td>400 W</td>
</tr>
<tr>
<td>PXB:1K8</td>
<td>High-pass</td>
<td>1.8 kHz</td>
<td>18 dB/octave</td>
<td>8 Ω</td>
<td>400 W</td>
</tr>
<tr>
<td>PXB:3K5</td>
<td>High-pass</td>
<td>3.5 kHz</td>
<td>18 dB/octave</td>
<td>8 Ω</td>
<td>400 W</td>
</tr>
<tr>
<td>PXB:5K0</td>
<td>High-pass</td>
<td>5 kHz</td>
<td>18 dB/octave</td>
<td>8 Ω</td>
<td>400 W</td>
</tr>
<tr>
<td>PXB2:800</td>
<td>2-way</td>
<td>800 Hz</td>
<td>12 dB/octave</td>
<td>8 Ω</td>
<td>400 W</td>
</tr>
<tr>
<td>PXB2:1K6</td>
<td>2-way</td>
<td>1.6 kHz</td>
<td>12 dB/octave</td>
<td>8 Ω</td>
<td>400 W</td>
</tr>
<tr>
<td>PXB2:2K5CX</td>
<td>2-way</td>
<td>2.5 kHz</td>
<td>18 dB/octave</td>
<td>8 Ω</td>
<td>250 W</td>
</tr>
<tr>
<td>PXB2:3K5</td>
<td>2-way</td>
<td>3.5 kHz</td>
<td>18 dB/octave</td>
<td>8 Ω</td>
<td>400 W</td>
</tr>
<tr>
<td>PXB2:5K0</td>
<td>2-way</td>
<td>5 kHz</td>
<td>12 dB/octave</td>
<td>8 Ω</td>
<td>400 W</td>
</tr>
<tr>
<td>PXB3:3K5</td>
<td>2-way</td>
<td>3.5 kHz</td>
<td>6 dB/octave</td>
<td>8 Ω</td>
<td>400 W</td>
</tr>
<tr>
<td>PXB3:5K0</td>
<td>2-way</td>
<td>5 kHz</td>
<td>12 dB/octave</td>
<td>8 Ω</td>
<td>400 W</td>
</tr>
</tbody>
</table>

**Legend Series**

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

**Signature Series**

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

**Patriot Series**

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

**Redcoat Series**

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

**Bass Guitar**

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

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

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

**Replacement bulb**

Recommended for LF and HF level matching unless using our coax crossover PXB2:2K5CX.

**Type:** pH-Lpad  **Cabinet Ready:** Yes  **Impedance:** 8 ohm  **Power Handling:** 100 W
The warmth of hemp meets the power and responsiveness of neo in this versatile 12” speaker. Touch-sensitive and balanced, the WheelHouse delivers warm, smooth tone throughout the entire spectrum, allowing you to utilize your amp controls to shape your sound. It handles pedals and amp EQ with ease. Go from country to fusion to blues and make it sound like it’s right in your wheelhouse.

A 15” version of our 12” WheelHouse 150, this touch-sensitive and balanced hemp cone speaker delivers warm, smooth tone throughout the entire spectrum, allowing you to utilize your amp controls to shape your sound. It handles pedals and amp EQ with ease.

"Today’s in-demand session artists and sidemen have to be chameleons. We need to seamlessly blend in stylistically and tonally with whatever type of music is being recorded. This new speaker I helped Eminence develop lets me use my amp and pedals to dial in any tone I’m after, and handles anything I throw at it."  – Andy Wood / Session Artist / Touring Professional
**Paul Franklin Signature**

**PF-350**

Offering complete tonal balance from top to bottom, this attack-sensitive and powerful 12” model was co-developed with veteran session and touring pro Paul Franklin. With headroom to spare, the PF-350’s tone transfers from low volume to very loud with warmth and clarity, making it ideal for pedal steelers and 6-stringers alike.

12” 350 Watts 8 Ω

“I finally have a speaker with complete balance, from highs to lows, where one frequency never dominates another. It gives me the flexibility to use my amp to dial in any type of sound while faithfully delivering beautiful tone at any volume.” – Paul Franklin

**Specifications**

<table>
<thead>
<tr>
<th>Nominal Basket Diameter</th>
<th>12”, 305 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Type</td>
<td>Closed Back</td>
</tr>
<tr>
<td>Acceptable</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

**Mounting Information**

- Edge wound aluminum voice coil
- 0.285”, 7.24 mm Voice Coil Diameter
- 0.36”, 9.1 mm Gap Height
- 5.0”, 127 mm Magnet Diameter
- Undercut core
- Neodymium magnet
- Paper dust cap
- Cloth edge
- Paper cone

**Materials of Construction**

- Copper voice coil
- Paper dust cap
- Cloth edge
- Paper cone

**Frequency Response & Impedance Curve**

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

**Enclosure Type**

- Closed Back
- Open Back

**Driver Volume**

- Displaced
- Sealing Gasket
- Front Sealing Gasket
- Rear Sealing Gasket

**Mounting Holes**

- Diameter
- B.C.D.

**Net Weight**

- 21.5 lbs, 9.75 kg

**Shipping Weight**

- 23.7 lbs, 10.75 kg

*Visit eminence.com to find a dealer near you.*

---

**Travis Toy Signature**

**Double-T 12**

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

12” 300 Watts 8 Ω

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

**Specifications**

<table>
<thead>
<tr>
<th>Nominal Basket Diameter</th>
<th>12”, 305 mm</th>
</tr>
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<tr>
<td>Enclosure Type</td>
<td>Closed Back</td>
</tr>
<tr>
<td>Acceptable</td>
<td>Acceptable</td>
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</tbody>
</table>

**Mounting Information**

- Copper voice coil
- 0.3”, 7.6 mm Voice Coil Diameter
- 0.3”, 7.6 mm Gap Height
- 5.0”, 127 mm Magnet Diameter
- Undercut core
- Neodymium magnet
- Paper dust cap
- Cloth edge
- Paper cone

**Materials of Construction**

- Copper voice coil
- Paper dust cap
- Cloth edge
- Paper cone

**Frequency Response & Impedance Curve**

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

**Enclosure Type**

- Closed Back
- Open Back

**Driver Volume**

- Displaced
- Sealing Gasket
- Front Sealing Gasket
- Rear Sealing Gasket

**Mounting Holes**

- Diameter
- B.C.D.

**Net Weight**

- 7.1 lbs, 3.22 kg

**Shipping Weight**

- 8.7 lbs, 3.95 kg

*Visit eminence.com to find a dealer near you.*

---

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

---

"I finally have a speaker with complete balance, from highs to lows, where one frequency never dominates another. It gives me the flexibility to use my amp to dial in any type of sound while faithfully delivering beautiful tone at any volume.” – Paul Franklin

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For more information, visit eminence.com.
**ERIC JOHNSON SIGNATURE**

**EJ-1240**

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

\[ 12" \quad 40 \text{ WATTS} \quad 8 \text{ or } 16 \Omega \]

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

**SPECIFICATION**

<table>
<thead>
<tr>
<th>Nominal Basket Diameter</th>
<th>12&quot;, 305 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Type</td>
<td>Closed Back</td>
</tr>
<tr>
<td>Acceptable</td>
<td>Paper former</td>
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<tr>
<td>Paper voice coil</td>
<td>Yes</td>
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<tr>
<td>Paper cone</td>
<td>Yes</td>
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<tr>
<td>Pressed steel basket</td>
<td>Yes</td>
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<tr>
<td>Non-vented core</td>
<td>Yes</td>
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<tr>
<td>Magnet weight</td>
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<tr>
<td>Resonance (Rs)</td>
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<tr>
<td>DC Resistance (Re)</td>
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<tr>
<td>Qts</td>
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<tr>
<td>Power Rating*</td>
<td>50 Watts</td>
</tr>
<tr>
<td>Nominal Impedance*</td>
<td>8 Ohm</td>
</tr>
<tr>
<td>Nominal Basket Diameter</td>
<td>12&quot;</td>
</tr>
</tbody>
</table>

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

** MATERIALS OF CONSTRUCTION**

| Voice Coil Diameter  | 1.75", 44.5 mm |
| Gap Height           | 0.31", 8 mm   |
| Magnet Weight        | 5.23 oz.      |
| Overall Diameter     | 12.17", 309.1 mm |
| Baffle Hole Diameter | 11.13", 282.7 mm |
| Front Sealing Gasket | Yes          |
| Rear Sealing Gasket  | Yes          |
| Mounting Holes B.C.D.| Yes          |
| Mounting Holes Diameter | 10.2", 260.0 mm |
| Mounting Holes B.C.D. | 8.4 lbs, 3.8 kg |

**Enclosure Type**

<table>
<thead>
<tr>
<th>Open Back</th>
<th>Acceptable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Closed Back</td>
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<td>Paper voice coil</td>
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<tr>
<td>Paper cone</td>
<td>Yes</td>
</tr>
<tr>
<td>Pressed steel basket</td>
<td>Yes</td>
</tr>
<tr>
<td>Non-vented core</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Shipping Weight**

9.8 lbs, 4.45 kg

**Net Weight**

8.0 lbs, 3.95 kg

**Josh Smith Signature**

**JS-1250**

Respected as much for his tone as his guitar skills, Josh Smith’s concept for the ultimate guitar speaker involved combining the lows of the Eminence Tonespotter, the clean highs of the Wizard, and the natural grit and sparkle of the Red Fang alnico. The result is an extremely versatile speaker with vintage tone and the ability to handle the power of modern amps.

\[ 12" \quad 50 \text{ WATTS} \quad 8 \Omega \]

"Ultimately I was looking for something that could work in any application, from clean Fender tones, as well as dirty Vox tones. I asked Eminence to combine several qualities of my favorite speakers into one, and they knocked it out of the park. I use it in all my amps." – Josh Smith

**SPECIFICATION**

<table>
<thead>
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<th>Nominal Basket Diameter</th>
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<td>Qts</td>
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<tr>
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<tr>
<td>Nominal Impedance*</td>
<td>8 Ohm</td>
</tr>
<tr>
<td>Nominal Basket Diameter</td>
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**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

** MATERIALS OF CONSTRUCTION**

| Voice Coil Diameter  | 1.75", 44.5 mm |
| Gap Height           | 0.31", 8 mm   |
| Magnet Weight        | 3.69 oz.      |
| Overall Diameter     | 11.75", 298.5 mm |
| Baffle Hole Diameter | 11.13", 282.7 mm |
| Front Sealing Gasket | Yes          |
| Rear Sealing Gasket  | Yes          |
| Mounting Holes B.C.D.| Yes          |
| Mounting Holes Diameter | 10.2", 260.0 mm |
| Mounting Holes B.C.D. | 8.4 lbs, 3.8 kg |

**Enclosure Type**

<table>
<thead>
<tr>
<th>Open Back</th>
<th>Acceptable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Closed Back</td>
<td>Paper former</td>
</tr>
<tr>
<td>Paper voice coil</td>
<td>Yes</td>
</tr>
<tr>
<td>Paper cone</td>
<td>Yes</td>
</tr>
<tr>
<td>Pressed steel basket</td>
<td>Yes</td>
</tr>
<tr>
<td>Non-vented core</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Shipping Weight**

9.8 lbs, 4.45 kg

**Net Weight**

8.0 lbs, 3.95 kg

**Visit Eminence.com to find a dealer near you.**
**GEORGE ALESSANDRO SIGNATURE**

**GA10-SC64**

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

**10”**

- **20 WATTS**
- **8 Ω**

---

**SPECIFICATION**

<table>
<thead>
<tr>
<th>Nominal Basket Diameter</th>
<th>10”, 254 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Impedance*</td>
<td>8 Ω</td>
</tr>
<tr>
<td>Power Rating*</td>
<td>20 W</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>98.2 dB</td>
</tr>
<tr>
<td>DC Resistance (Re)</td>
<td>7.58 Ω</td>
</tr>
<tr>
<td>Qts</td>
<td>0.97</td>
</tr>
<tr>
<td>Magnet Weight</td>
<td>0.22 lbs</td>
</tr>
<tr>
<td>Voice Coil Diameter</td>
<td>0.24” , 6.1 mm</td>
</tr>
<tr>
<td>Net Weight</td>
<td>3.6 lbs , 1.6 kg</td>
</tr>
</tbody>
</table>

---

**MOUNTING INFORMATION**

- Enclosure Type: Acceptable
- Acceptable
- Solid composition felt dust cap

---

**MATERIALS OF CONSTRUCTION**

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

---

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

* See footnotes on page 135 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

---

**GEORGE ALESSANDRO SIGNATURE**

**GA-SC64**

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

**12”**

- **40 WATTS**
- **8 or 16 Ω**

---

**SPECIFICATION**

<table>
<thead>
<tr>
<th>Nominal Basket Diameter</th>
<th>12”, 305 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Impedance*</td>
<td>8 or 16 Ω</td>
</tr>
<tr>
<td>Power Rating*</td>
<td>40 W</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>100.5 dB</td>
</tr>
<tr>
<td>DC Resistance (Re)</td>
<td>7.63 Ω</td>
</tr>
<tr>
<td>Qts</td>
<td>0.58</td>
</tr>
<tr>
<td>Magnet Weight</td>
<td>0.38 lbs</td>
</tr>
<tr>
<td>Voice Coil Diameter</td>
<td>0.24” , 6.1 mm</td>
</tr>
<tr>
<td>Net Weight</td>
<td>7.5 lbs , 3.4 kg</td>
</tr>
</tbody>
</table>

---

**MOUNTING INFORMATION**

- Enclosure Type: Acceptable
- Acceptable
- Solid composition felt dust cap

---

**MATERIALS OF CONSTRUCTION**

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

---

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

* See footnotes on page 135 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.

---

* See footnotes on page 135 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.
TOMO FUJITA SIGNATURE

TF-1250

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

12” 60 WATTS 8 Ω

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

PETE ANDERSON SIGNATURE

HEMPDOG 12

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

12” 150 WATTS 8 Ω

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

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

### SPECIFICATION
- **Nominal Basket Diameter**: 10”, 254 mm
- **Nominal Impedance**: 8 Ω
- **Nominal Power Rating**: 35 W
- **Sensitivity**: 95 Hz – 100 Hz – 5 kHz
- **Maximum SPL**: 98.7 dB
- **DC Resistance**: 7.49 Ω
- **Qts**: 1.13
- **Magnet Weight**: 16 oz.
- **Voice Coil Diameter**: 0.25”, 6.4 mm
- **Nominal Basket Diameter**: 10”, 254 mm
- **Enclosure Type**: Closed
- **Acceptable Enclosure Type**: Open
- **Resonance (Fs)**: 97 Hz
- **Usable Frequency Range**: 95 Hz – 100 Hz – 5 kHz
- **Overall Diameter**: 10.11’, 256.8 mm
- **Baffle Hole Diameter**: 9.13’, 231.9 mm
- **Overall Diameter**: 4.8”, 121.9 mm
- ** Depth**: 6.0”, 150.1 mm
- **Front Sealing Gasket**: Yes
- **Rear Sealing Gasket**: Yes
- **Mounting Holes Diameter**: 0.23’, 5.8 mm
- **Mounting Holes B.C.D.**: 0.22’, 5.6 mm
- **Net Weight**: 4.4 lbs, 2 kg
- **Shipping Weight**: 5.4 lbs, 2.45 kg
- **Copper voice coil
- **Polyimide former
- **Alnico magnet
- **Non-vented core
- **Pressed steel basket
- **Paper cone
- **Paper cone edge
- **Solid composition felt dust cap

### MOUNTING INFORMATION
- **Enclosure Type**: Closed Back
- **Open Back

### MATERIALS OF CONSTRUCTION
- **Copper voice coil
- **Polyimide former
- **Alnico magnet
- **Non-vented core
- **Pressed steel basket
- **Paper cone
- **Paper cone edge
- **Solid composition felt dust cap

### FREQUENCY RESPONSE & IMPEDANCE CURVE

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

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

### SPECIFICATION
- **Nominal Basket Diameter**: 10”, 254 mm
- **Nominal Impedance**: 8 or 16 Ω
- **Nominal Power Rating**: 75 W
- **Sensitivity**: 95 Hz – 100 Hz – 5 kHz
- **Maximum SPL**: 97.4 dB
- **DC Resistance**: 7.49 Ω
- **Qts**: 1.13
- **Magnet Weight**: 16 oz.
- **Voice Coil Diameter**: 0.25”, 6.4 mm
- **Nominal Basket Diameter**: 10”, 254 mm
- **Enclosure Type**: Closed
- **Acceptable Enclosure Type**: Open
- **Resonance (Fs)**: 97 Hz
- **Usable Frequency Range**: 95 Hz – 100 Hz – 5 kHz
- **Overall Diameter**: 10.11’, 256.8 mm
- **Baffle Hole Diameter**: 9.13’, 231.9 mm
- **Overall Diameter**: 4.8”, 121.9 mm
- ** Depth**: 6.0”, 150.1 mm
- **Front Sealing Gasket**: Yes
- **Rear Sealing Gasket**: Yes
- **Mounting Holes Diameter**: 0.23’, 5.8 mm
- **Mounting Holes B.C.D.**: 0.22’, 5.6 mm
- **Net Weight**: 4.4 lbs, 2 kg
- **Shipping Weight**: 5.4 lbs, 2.45 kg
- **Copper voice coil
- **Polyimide former
- **Ferrite magnet
- **Non-vented core
- **Pressed steel basket
- **Paper cone
- **Paper cone edge
- **Solid composition felt dust cap

### MOUNTING INFORMATION
- **Enclosure Type**: Closed Back
- **Open Back

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

### FREQUENCY RESPONSE & IMPEDANCE CURVE

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

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

Following in the footsteps of the popular Legend EM12, the new EM12N takes the weight out but leaves the performance in. Rated at 200 watts, the neodymium EM12N delivers the same neutral tone so you can hear more of your guitar and amp, but with even tighter, more responsive and dynamic characteristics.

**SPECIFICATION**

<table>
<thead>
<tr>
<th>Nominal Basket Diameter</th>
<th>12&quot;, 305 mm</th>
<th>Enclosure Type</th>
<th>Acceptable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Rating*</td>
<td>200 W</td>
<td>Closed Back</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Nominal Impedance*</td>
<td>8 Ω</td>
<td>Edge wound aluminum voice coil</td>
<td></td>
</tr>
<tr>
<td>Resonance (F&lt;sub&gt;s&lt;/sub&gt;)</td>
<td>50.9 Hz</td>
<td>Neodymium magnet</td>
<td></td>
</tr>
<tr>
<td>Usable Frequency Range</td>
<td>60 Hz – 4.2 kHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nominal Basket Diameter*</td>
<td>12&quot;, 305 mm</td>
<td>Ferite magnet</td>
<td></td>
</tr>
<tr>
<td>Voice Coil Diameter</td>
<td>2.5&quot;, 64 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnet Weight</td>
<td>11 oz.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gap Height</td>
<td>0.37&quot;, 9.5 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enclosure Type</td>
<td>Closed Back</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.
The Eminence Legend 1218 guitar speaker brings tone to the masses. Very balanced, fat, round, punchy lows and warm, smooth mids and lows, very clean and articulate.

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

**LEGEND 1258**

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

12” 75 WATTS 8 Ω

**SPECIFICATION**
- Nominal Basket Diameter: 12”, 305 mm
- Enclosure Type
  - Open Back
  - Acceptable
- Nominal Impedance*: 8 Ω
- Power Rating*: 150 W
- Sensitivity**: 94 Hz
- Nominal Resonance (Fs): 40 Hz
- Nominal Basket Diameter**: 100.0 mm
- Crossover Frequency Range: 125 – 2000 Hz
- Nominal Impedance (Rm): 6.6 Ω

**MOUNTING INFORMATION**
- Acceptable
  - Front Sealing Gasket
  - Rear Sealing Gasket
- Mounting Holes Diameter: 0.25”
- Mounting Holes B.C.D.: 1.5”
- Net Weight: 9.9 lbs

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

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

**LEGEND 1275**

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

12” 75 WATTS 8 Ω

**SPECIFICATION**
- Nominal Basket Diameter: 12”, 305 mm
- Enclosure Type
  - Open Back
  - Acceptable
- Nominal Impedance*: 8 Ω
- Power Rating*: 150 W
- Sensitivity**: 94 Hz
- Nominal Resonance (Fs): 40 Hz
- Nominal Basket Diameter**: 100.0 mm
- Crossover Frequency Range: 125 – 2000 Hz
- Nominal Impedance (Rm): 6.6 Ω

**MOUNTING INFORMATION**
- Acceptable
  - Front Sealing Gasket
  - Rear Sealing Gasket
- Mounting Holes Diameter: 0.25”
- Mounting Holes B.C.D.: 1.5”
- Net Weight: 9.9 lbs

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

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.
The Legend GB128 guitar speaker offers cleaner vintage British voiced tone with a round, punchy low end, warm, throaty mids and very open and clear highs.

**SPECIFICATION**

- Nominal Basket Diameter: 12", 305 mm
- Enclosure Type: Closed Back
- Acceptable
- Power Handling: 50 W
- Nominal Impedance*: 8 Ω

**MOUNTING INFORMATION**

- Cone Material: Paper cone
- Voice Coil Diameter: 1.75", 44 mm
- Nominal Basket Diameter: 12", 305 mm
- Net Weight: 38 oz., 0.25 lb.
- Mounting Holes B.C.D.: 4.375", 111.1 mm
- Depth: 11.50", 296.9 mm
- Mounting Holes Diameter: 0.26", 6.4 mm
- Stop: 0.65", 16.5 mm
- Magnets: Lead
- Voice Coil: 8 AWG

**MATERIALS OF CONSTRUCTION**

- Voice Coil Diameter: 1.75", 44 mm
- Mounting Holes B.C.D.: 4.375", 111.1 mm
- Depth: 11.50", 296.9 mm
- Mounting Holes Diameter: 0.26", 6.4 mm
- Stop: 0.65", 16.5 mm
- Magnets: Lead
- Voice Coil: 8 AWG

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

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

**SPECIFICATION**

- Nominal Basket Diameter: 15", 381 mm
- Enclosure Type: Closed Back
- Acceptable
- Power Handling: 150 W
- Nominal Impedance*: 8 Ω

**MOUNTING INFORMATION**

- Cone Material: Paper cone
- Voice Coil Diameter: 1.75", 44 mm
- Nominal Basket Diameter: 15", 381 mm
- Net Weight: 59 oz., 0.31 lb.
- Mounting Holes B.C.D.: 4.375", 111.1 mm
- Depth: 11.50", 296.9 mm
- Mounting Holes Diameter: 0.26", 6.4 mm
- Stop: 0.65", 16.5 mm
- Magnets: Lead
- Voice Coil: 8 AWG

**MATERIALS OF CONSTRUCTION**

- Voice Coil Diameter: 1.75", 44 mm
- Mounting Holes B.C.D.: 4.375", 111.1 mm
- Depth: 11.50", 296.9 mm
- Mounting Holes Diameter: 0.26", 6.4 mm
- Stop: 0.65", 16.5 mm
- Magnets: Lead
- Voice Coil: 8 AWG

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

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

620H

- **6.5”**, 165 mm
- **4 Ω**
- **20 W**
- **114 Hz**
- **100 Hz – 5.3 kHz**
- **94.6 dB**
- **3.94 Ω**
- **0.49**
- **15 oz.**
- **0.25”, 6.4 mm**
- **1”, 25 mm**
- **Acceptable**
- **Acceptable**
- **0.011 cu.ft., 0.3 liters**
- **6.59’’, 167.4 mm**
- **5.65’’, 143.5 mm**
- **2.8”, 71.1 mm**
- **Yes**
- **Yes**
- **0.23’’, 5.8 mm**
- **6.06’’, 153.9 mm**
- **2.9 lbs, 1.32 kg**
- **3.6 lbs, 1.63 kg**

**Patriot guitar series**

**Copper voice coil**

**Polyimide former**

**Ferrite magnet**

**Non-vented core**

**Pressed steel basket**

**Paper cone**

**Full molded paper cone**

**Zurette dust cap**

---

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

820H

- **8”, 203 mm**
- **4 Ω**
- **20 W**
- **144 Hz**
- **80 Hz – 4.6 kHz**
- **96.1 dB**
- **3.64 Ω**
- **0.88**
- **15 oz.**
- **0.25”, 6.4 mm**
- **1”, 25 mm**
- **Acceptable**
- **Acceptable**
- **0.018 cu.ft., 0.51 liters**
- **8.24’’, 209.3 mm**
- **7.13’’, 181.1 mm**
- **3.06”, 77.7 mm**
- **Yes**
- **N/A**
- **0.22’’, 5.6 mm**
- **7.75’’, 196.9 mm**
- **3.1 lbs, 1.41 kg**
- **3.9 lbs, 1.77 kg**

**Patriot guitar series**

**Copper voice coil**

**Polyimide former**

**Ferrite magnet**

**Non-vented core**

**Pressed steel basket**

**Paper cone**

**Full paper cone**

**Zurette dust cap**

---

*See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.*
A highly requested 10" version of our popular Cannabis Rex, this hemp cone speaker offers warm, smooth, clean, and full tone, but with high-end definition – just like its big brother. Great to tame a bright amp and/or guitar.

**SPECIFICATION**

<table>
<thead>
<tr>
<th>Nominal Basket Diameter</th>
<th>Y&quot; (254 mm)</th>
<th>Enclosure Type</th>
<th>Acceptable</th>
<th>Paper former</th>
<th>Polyimide former</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Impedance*</td>
<td>8 Ω</td>
<td>Closed Back</td>
<td>Acceptable</td>
<td>Paper</td>
<td>Polyimide</td>
</tr>
<tr>
<td>Power Rating*</td>
<td>50 W</td>
<td>Open Back</td>
<td>Acceptable</td>
<td>Copper voice coil</td>
<td></td>
</tr>
<tr>
<td>Sensitivity</td>
<td>99.3 dB</td>
<td>Full Tone</td>
<td>Acceptable</td>
<td>Paper</td>
<td>Polyimide</td>
</tr>
<tr>
<td>Usable Frequency Range</td>
<td>130 Hz – 5.3 kHz</td>
<td>Filled Steel</td>
<td>Paper cone edge</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC Resistance (Rdc)</td>
<td>6-9 O</td>
<td>Depth</td>
<td>6.9&quot; 707 A mm</td>
<td>Zerutte dust cap</td>
<td></td>
</tr>
<tr>
<td>Gap Height</td>
<td>0.015&quot;</td>
<td>Edge Sealing Gel</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voice Coil Diameter</td>
<td>9.57&quot; 243.8 mm</td>
<td>Paper cone edge</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnet Weight</td>
<td>0.3 lbs 1.4 kg</td>
<td>Aluminum dust cap</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mounting Holes Diameter</td>
<td>1.8&quot; 60.9 mm</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mounting Holes B.C.D.</td>
<td>3.57&quot; 90.7 mm</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net Weight</td>
<td>3.9 lbs 1.8 kg</td>
<td>Yes</td>
<td></td>
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<tr>
<td>Shipping Weight</td>
<td>6.8 lbs 3.1 kg</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**MOUNTING INFORMATION**

<table>
<thead>
<tr>
<th>Enclosure Type</th>
<th>Closed Back</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Diameter</td>
<td>10.11&quot; 256.8 mm</td>
</tr>
<tr>
<td>Baffle Hole Diameter</td>
<td>4.2&quot; 106.7 mm</td>
</tr>
<tr>
<td>Depth</td>
<td>9.13&quot; 231.9 mm</td>
</tr>
<tr>
<td>Front Sealing Gasket</td>
<td>0.23&quot; 5.8 mm</td>
</tr>
<tr>
<td>Rear Sealing Gasket</td>
<td>0.310 mm</td>
</tr>
<tr>
<td>Mounting Holes Diameter</td>
<td>2.0&quot; 51 mm</td>
</tr>
<tr>
<td>Mounting Holes B.C.D.</td>
<td>3.0&quot; 76 mm</td>
</tr>
<tr>
<td>Net Weight</td>
<td>4.5 lbs 2.04 kg</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>6.4 lbs 2.9 kg</td>
</tr>
</tbody>
</table>

**MATERIALS OF CONSTRUCTION**

| Voice Coil Diameter | 9.6" 243.8 mm |
| Magnet Weight       | 0.23" 5.8 mm |
| Mounting Holes Diameter | 2.0" 51 mm |
| Mounting Holes B.C.D. | 3.0" 76 mm |
| Net Weight          | 4.5 lbs 2.04 kg |
| Shipping Weight     | 6.4 lbs 2.9 kg |

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

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

**RagIN caJUN**
- **Nominal Basket Diameter**: 10”, 254 mm
- **Enclosure Type**: Acceptable
- **Nominal Impedance**: 8 Ω
- **Power Rating**: 75 W
- **Resonance (F<sub>s</sub>)**: 149 Hz
- **Usable Frequency Range**: 80 Hz – 5 kHz
- **Sensitivity**: 98.8 dB
- **DC Resistance (R<sub>e</sub>)**: 6.31 Ω
- **Net Weight**: 6.3 lbs, 2.86 kg
- **Shipping Weight**: 7.6 lbs, 3.45 kg
- **Material Construction**: Copper voice coil, Paper former, Ferrite magnet, Non-vented core, Pressed steel basket, Paper cone, Paper cone edge, Zurette dust cap

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

**lIl' BUddy**
- **Nominal Basket Diameter**: 10”, 254 mm
- **Enclosure Type**: Acceptable
- **Nominal Impedance**: 8 Ω
- **Power Rating**: 50 W
- **Resonance (F<sub>s</sub>)**: 151 Hz
- **Usable Frequency Range**: 80 Hz – 5 kHz
- **Sensitivity**: 98.8 dB
- **DC Resistance (R<sub>e</sub>)**: 6.31 Ω
- **Net Weight**: 6.3 lbs, 2.86 kg
- **Shipping Weight**: 7.6 lbs, 3.45 kg
- **Material Construction**: Copper voice coil, Paper former, Ferrite magnet, Non-vented core, Pressed steel basket, Hemp cone ™, Paper cone edge, Zurette dust cap

---

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

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

12” 225 watts 4 Ω

**EPS-12C**

12”, 305 mm

4 Ω

225 W

49 Hz

65 Hz – 4.9 kHz

100.1 dB

3.55 Ω

0.24

11 oz.

0.36”, 9.1 mm

3”, 76 mm

Acceptable

Acceptable

0.054 cu.ft., 1.53 liters

12.38”, 314.5 mm

11.06”, 280.9 mm

5.63”, 143 mm

Yes

Yes

0.28”, 7.1 mm

11.62”, 295.2 mm

7.1 lbs, 3.22 kg

8.7 lbs, 3.95 kg

Edge wound Aluminum Voice Coil

Kapton former

Neodymium magnet

Vented core

Die-cast aluminum basket/heat sink

Paper cone

Cloth cone edge

Treated paper dust cap

---

**SWAMP THANG™**

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

12” 150 watts 8 or 16 Ω

**SPECIFICATION**

Nominal Basket Diameter 12”, 305 mm

Enclosure Type Acceptable

Nominal Impedance* 8 or 16 Ω

Enclosure Type Acceptable

Power Handling 150 W

Enclosure Type Acceptable

Resonance (F_s) 97 Hz

Nominal Basket Diameter

Enclosure Type Acceptable

Overall Frequency Range 70 Hz – 2 kHz

Cone Diameter

DC Resistance (Rdc) 6.80 Ω

Nominal Basket Diameter

Enclosure Type Acceptable

Magnet Weight 58 oz

Nominal Basket Diameter

Enclosure Type Acceptable

Voice Coil Diameter 0.37”, 9.4 mm

Nominal Basket Diameter

Enclosure Type Acceptable

Net Weight

11 lbs, 5.03 kg

Nominal Basket Diameter

Enclosure Type Acceptable

Shipping Weight

12.8 lbs, 5.81 kg

---

**MOUNTING INFORMATION**

Enclosure Type

Closed Back

Open Back

Driver Volume Displaced

Overall Diameter

Baffle Hole Diameter

Depth

Front Sealing Gasket

Rear Sealing Gasket

Mounting Holes Diameter

Mounting Holes B.C.D.

Net Weight

Shipping Weight

Visit eminence.com to find a dealer near you.

---

**MATERIALS OF CONSTRUCTION**

Copper voice coil

Polymer former

Cotton former

Aluminum former

Polyimide former

Laminated steel

Non-vented core

Non-vented core

Die-cast aluminum

Die-cast aluminum

Paper cone

Paper cone

Zurette dust cap

Zurette dust cap

---

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

---

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

---

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

12" 150 WATTS
8, 4 or 16 Ω

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

12" 125 WATTS
8 Ω

**SPECIFICATION**

<table>
<thead>
<tr>
<th>Nominal Basket Diameter</th>
<th>12&quot; 305 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Impedance*</td>
<td>8, 4 or 16 Ω</td>
</tr>
<tr>
<td>Power Handling</td>
<td>500 W</td>
</tr>
<tr>
<td>Crossover Frequency</td>
<td>20 Hz – 5 kHz</td>
</tr>
<tr>
<td>Driver Volume Displaced</td>
<td>0.071 cu.ft., 2 liters</td>
</tr>
<tr>
<td>Front Sealing Gasket</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Rear Sealing Gasket</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Depth</td>
<td>11.59’’, 294.4 mm</td>
</tr>
<tr>
<td>Baffle Hole Diameter</td>
<td>0.25’, 6.4 mm</td>
</tr>
<tr>
<td>Overall Diameter</td>
<td>12.03’, 305.6 mm</td>
</tr>
<tr>
<td>Nominal Basket Diameter</td>
<td>2’, 51 mm</td>
</tr>
</tbody>
</table>

**MOUNTING INFORMATION**

<table>
<thead>
<tr>
<th>Enclosure Type</th>
<th>Closed Back</th>
<th>Acceptable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Diameter</td>
<td>12.03’’, 305.6 mm</td>
<td></td>
</tr>
<tr>
<td>Mounting Holes B.C.D.</td>
<td>5.1’, 129.5 mm</td>
<td></td>
</tr>
<tr>
<td>Mounting Holes Diameter</td>
<td>2’, 51 mm</td>
<td></td>
</tr>
</tbody>
</table>

**MATERIALS OF CONSTRUCTION**

<table>
<thead>
<tr>
<th>Copper voice coil</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper cone</td>
</tr>
<tr>
<td>Paper cone edge</td>
</tr>
<tr>
<td>Pressed steel basket</td>
</tr>
<tr>
<td>Non-vented core</td>
</tr>
<tr>
<td>Ferrite magnet</td>
</tr>
<tr>
<td>Polyimide former</td>
</tr>
<tr>
<td>Copper voice coil</td>
</tr>
</tbody>
</table>

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

---

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

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

**SPECIFICATION**

- **Nominal Basket Diameter**: 12" (305 mm)
- **Enclosure Type**: Acceptable
- **Magnet Weight**: 3 oz.
- **Voice Coil Diameter**: 0.25" (6.4 mm)
- **Overall Diameter**: 11.59" (294.4 mm)
- **Depth**: 0.078 cu.ft., 2.2 liters

**MOUNTING INFORMATION**

- **Mounting Hole Diameter**: 11.59" (294.4 mm)
- **Overall Diameter**: 12.03" (305.6 mm)
- **Gap Height**: 0.25" (6.4 mm)
- **Front Sealing Gasket**: Acceptable

**MATERIALS OF CONSTRUCTION**

- **Material of Construction**: Paper cone, Paper cone edge, Pressed steel basket, Ferrite magnet, Polyimide former, Copper voice coil

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

- **Nominal Impedance**: 8 Ω
- **Power Rating**: 75 W
- **Sensitivity**: 91.5 – 100 dB
- **Usable Frequency Range**: 80 Hz – 5 kHz

---

**MAVERICK™**

Don't sacrifice tone for lower stage volume! The Eminence Maverick™ guitar speaker with patent-pending FDM™ technology puts tonal control at your fingertips. Simply adjust the knob on the back of the speaker to attenuate volume while creating an overdriven, satirated tube tone. Perfect for small venues, studios and practice situations. Very balanced, versatile American tone with fat lows, warm mids, and articulate highs.

**SPECIFICATION**

- **Nominal Basket Diameter**: 12" (305 mm)
- **Enclosure Type**: Acceptable
- **Magnet Weight**: 1.09 oz.
- **Voice Coil Diameter**: 0.375" (9.5 mm)
- **Overall Diameter**: 11.97" (303.8 mm)

**MOUNTING INFORMATION**

- **Mounting Hole Diameter**: 11.97" (303.8 mm)
- **Overall Diameter**: 12.03" (305.6 mm)
- **Gap Height**: 0.192" (4.9 mm)
- **Front Sealing Gasket**: Acceptable

**MATERIALS OF CONSTRUCTION**

- **Material of Construction**: Zurette dust cap, Paper cone, Paper cone edge, Pressed steel basket, Ferrite magnet, Polyimide former, Copper voice coil

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

- **Nominal Impedance**: 8 Ω
- **Power Rating**: 60 W
- **Sensitivity**: 91.5 – 100 dB
- **Usable Frequency Range**: 80 Hz – 5 kHz

---

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

Visit eminence.com to find a dealer near you.
The hemp cone Cannabis Rex guitar speaker offers clean and full tone with fat lows and warm, smooth mids and highs. A round and open tone makes it a great upgrade for American voiced amps.

Finally, a 12” speaker voiced specifically for fiddle. Reduced bow friction noise and tame upper-mids. It’s also great for guitar if you want thick tone with warm, smooth, more mellow mids and highs.

**SPECIFICATION**
- Nominal Basket Diameter: 12”, 305 mm
- Nominal Impedance*: 8 or 16 Ω
- Power Rating*: 50 watts
- Resonance (fn): 202 Hz
- Usable Frequency Range: 20 Hz to 10000 Hz
- Sensitivity: 100.1 dB
- DC Resistance (Rs): 7.34 Ω
- DC Quality (q): 0.56
- Magnet Weight: 7.9 lbs, 3.58 kg
- Voice Coil Diameter: 2.0”, 50.8 mm
- Voice Coil Length: 0.31”, 7.9 mm
- Enclosure Type: Closed Back

**MOUNTING INFORMATION**
- Mounting Holes Diameter: 0.31”, 7.9 mm
- Mounting Holes B.C.D.: 1.75”, 44 mm
- Net Weight: 7.9 lbs, 3.58 kg
- Shipping Weight: 9.8 lbs, 4.45 kg

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

---

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

---

**SPECIFICATION**
- Nominal Basket Diameter: 12”, 305 mm
- Nominal Impedance*: 8 Ω
- Power Rating*: 50 watts
- Resonance (fn): 202 Hz
- Usable Frequency Range: 20 Hz to 10000 Hz
- Sensitivity: 100.1 dB
- DC Resistance (Rs): 7.34 Ω
- DC Quality (q): 0.56
- Magnet Weight: 7.9 lbs, 3.58 kg
- Voice Coil Diameter: 2.0”, 50.8 mm
- Voice Coil Length: 0.31”, 7.9 mm
- Enclosure Type: Closed Back

**MOUNTING INFORMATION**
- Mounting Holes Diameter: 0.31”, 7.9 mm
- Mounting Holes B.C.D.: 1.75”, 44 mm
- Net Weight: 7.9 lbs, 3.58 kg
- Shipping Weight: 9.8 lbs, 4.45 kg

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

---

*See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.*
The lightweight neodymium Eminence EPS-15C guitar speaker is designed for pedal steel, lap steel, and related guitars. The aluminum dust cap lends chimey, extended highs that have come to define the classic pedal steel sound - all under 8 lbs.

### EPS-15C

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Basket Diameter</td>
<td>15&quot;, 381 mm</td>
</tr>
<tr>
<td>Nominal Impedance</td>
<td>8 Ω</td>
</tr>
<tr>
<td>Power Handling</td>
<td>300 W</td>
</tr>
<tr>
<td>Resonance (Fs)</td>
<td>42 Hz</td>
</tr>
<tr>
<td>Usable Frequency Range</td>
<td>42 Hz – 2.9 kHz</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>100.2 dB</td>
</tr>
<tr>
<td>DC Resistance (Re)</td>
<td>3.57 Ω</td>
</tr>
<tr>
<td>Magnet Weight</td>
<td>0.36&quot;, 9.3 mm</td>
</tr>
<tr>
<td>Gap Height</td>
<td>3&quot;, 76 mm</td>
</tr>
<tr>
<td>Voice Coil Diameter</td>
<td>0.31&quot;, 7.9 mm</td>
</tr>
<tr>
<td>Net Weight</td>
<td>11 oz., 0.36 kg</td>
</tr>
<tr>
<td>Nominal Basket Diameter</td>
<td>15&quot;, 381 mm</td>
</tr>
<tr>
<td>Nominal Impedance</td>
<td>8 Ω</td>
</tr>
<tr>
<td>Power Handling</td>
<td>300 W</td>
</tr>
<tr>
<td>Resonance (Fs)</td>
<td>42 Hz</td>
</tr>
<tr>
<td>Usable Frequency Range</td>
<td>42 Hz – 2.9 kHz</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>100.2 dB</td>
</tr>
<tr>
<td>DC Resistance (Re)</td>
<td>3.57 Ω</td>
</tr>
<tr>
<td>Magnet Weight</td>
<td>0.31&quot;, 7.9 mm</td>
</tr>
<tr>
<td>Gap Height</td>
<td>3&quot;, 76 mm</td>
</tr>
<tr>
<td>Voice Coil Diameter</td>
<td>0.31&quot;, 7.9 mm</td>
</tr>
<tr>
<td>Net Weight</td>
<td>11 oz., 0.36 kg</td>
</tr>
</tbody>
</table>

### Ramsay

The Eminence Ramsay is a very loud and gutsy 10" British-voiced guitar speaker with meaty tone. A very balanced tone with full lows, warm, throaty mids, clear highs and abundant harmonic detail.

### RAMROD™

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Basket Diameter</td>
<td>10&quot;, 254 mm</td>
</tr>
<tr>
<td>Nominal Impedance</td>
<td>8 Ω</td>
</tr>
<tr>
<td>Power Handling</td>
<td>75 W</td>
</tr>
<tr>
<td>Resonance (Fs)</td>
<td>101 Hz</td>
</tr>
<tr>
<td>Usable Frequency Range</td>
<td>80 Hz – 4 kHz</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>100.2 dB</td>
</tr>
<tr>
<td>DC Resistance (Re)</td>
<td>7.3 Ω</td>
</tr>
<tr>
<td>Magnet Weight</td>
<td>0.15&quot;, 0.38 mm</td>
</tr>
<tr>
<td>Gap Height</td>
<td>2&quot;, 51 mm</td>
</tr>
<tr>
<td>Voice Coil Diameter</td>
<td>0.16&quot;, 0.41 mm</td>
</tr>
<tr>
<td>Net Weight</td>
<td>1.5 lbs., 0.68 kg</td>
</tr>
</tbody>
</table>

Visit Eminence.com to find a dealer near you.
A ceramic version of our popular Red Fang 12 alnico. A round and beefy British tone with abundant harmonic detail, full lows, and nice grit and chime.

**RF10C**

**10” 50 WATTS 8 Ω**

**SPECIFICATION**

- Nominal Basket Diameter: 10”, 254 mm
- Nominal Impedance*: 8 Ω
- Enclosure Type: Open Back
- Acceptable: Yes
- Nominal Basket Diameter: 8 mm
- Nominal Impedance*: 8 Ω
- Enclosure Type: Open Back
- Acceptable: Yes

**MOUNTING INFORMATION**

- Resonance (Fs): 514 Hz
- Depth: 4”, 101.6 mm
- Paper cone edge
- Paper cone
- Zurette dust cap
- Magnet Weight: 0.31”, 7.9 mm
- Baffle Hole Diameter: 0.25”, 6.4 mm
- Mounting Holes: 0.25”, 6.4 mm
- Net Weight: 3.8 lbs, 1.75 kg
- Net Weight: 3.31 kg
- Shipping Weight: 5.8 lbs, 2.63 kg
- Shipping Weight: 2.63 kg

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

---

The Eminence Tonker guitar speaker features very fat, punchy, clean and warm tone. A nice, smooth midrange honk and clear, open highs. Carries the day, from English Rock to Tele Twang.

**THE TONKER**

**12” 150 WATTS 8 Ω**

**SPECIFICATION**

- Nominal Basket Diameter: 12”, 305 mm
- Nominal Impedance*: 8 Ω
- Enclosure Type: Open Back
- Acceptable: Yes
- Nominal Basket Diameter: 10 mm
- Nominal Impedance*: 8 Ω
- Enclosure Type: Open Back
- Acceptable: Yes

**MOUNTING INFORMATION**

- Resonance (Fs): 786 Hz
- Depth: 5.2”, 132.1 mm
- Paper cone edge
- Paper cone
- Zurette dust cap
- Magnet Weight: 0.31”, 7.9 mm
- Baffle Hole Diameter: 0.25”, 6.4 mm
- Mounting Holes: 0.25”, 6.4 mm
- Net Weight: 5.03 kg
- Shipping Weight: 5.99 kg
- Shipping Weight: 3.81 kg

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.
A lightweight 12” guitar speaker with nice round, punchy, balanced tone like the Tonker, but a touch brighter on the top end and less lower-mid definition – all at 4 lbs!

**Specification**

- **Nominal Basket Diameter**: 12” (305 mm)
- **Nominal Impedance**: 8 Ω
- **Sensitivity**: 101.1 dB
- **Frequency Response**: 35 Hz – 20 kHz
- **Power Rating**: 125 watts
- **Magnet Weight**: 0.28 lb. (129.5 mm)
- **Shipping Weight**: 7.2 lb. (129.5 mm)

**Mounting Information**

- **Enclosure Type**: Acceptable
- **Baffle Hole Diameter**: 0.57” (14.5 mm)
- **Front Sealing Gasket**: Yes
- **Rear Sealing Gasket**: No
- **Overall Diameter**: 12.03” (305.6 mm)
- **Depth**: 11.07” (281.2 mm)

**Materials of Construction**

- **Voice Coil**: Copper
- **Former**: Polyimide
- **Magnet**: Neodymium
- **Basket**: Non-vented core
- **Cone Edge**: Paper
- **Dust Cap**: Zurette

**Notes**

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

---

**MAN O WAR**

The Eminence Man O War guitar speaker is the workhorse of tone. A proven and revered sound, very loud and responsive/articulate in every register. Chunky, solid low end and crisp mids and highs.

**Specification**

- **Nominal Basket Diameter**: 12” (305 mm)
- **Nominal Impedance**: 8 or 16 Ω
- **Sensitivity**: 101.6 dB
- **Frequency Response**: 35 Hz – 20 kHz
- **Power Rating**: 120 watts
- **Magnet Weight**: 0.31 lb. (7.9 mm)
- **Shipping Weight**: 8.1 lb. (222 mm)

**Mounting Information**

- **Enclosure Type**: Acceptable
- **Baffle Hole Diameter**: 1.75” (44 mm)
- **Front Sealing Gasket**: Yes
- **Rear Sealing Gasket**: Yes
- **Overall Diameter**: 12.03” (305.6 mm)
- **Depth**: 11.07” (281.2 mm)

**Materials of Construction**

- **Voice Coil**: Copper
- **Former**: Polyimide
- **Magnet**: Ferrite
- **Basket**: Non-vented core
- **Cone Edge**: Paper
- **Dust Cap**: Zurette

**Notes**

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

**CV-75**

Over 10 years in development, we’ve captured the epitome of British tone. Complete tonal balance – grunt and punch in the lows, warm/tailored mids, and nice, clear, open/airy highs.

12” 75 watts 8 or 16 Ω

**SPECIFICATION**

- Nominal Basket Diameter: 12”, 305 mm
- Enclosure Type
  - Closed Back
- Acceptable Nomex Former
- Copper Voice Coil
- Ferrite Magnet
- Pressed Steel Basket
- Full Molded Paper Cone
- Paper Cone Edge
- Zurette Dust Cap
- Nominal Impedance: 8 or 16 Ω
- Power Handling: 75 W
- Frequency Response: 79 Hz – 5.5 kHz
- Sensitivity: 102.2 dB
- Impedance: 6.89 Ω
- Magnet Weight: 34 oz.
- Voice Coil Diameter: 0.31", 8 mm
- DC Resistance: 6.89 Ω

**MOUNTING INFORMATION**

- Mounting Information
  - Material of Construction
  - Mounting Information
  - Net Weight
  - Shipping Weight

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

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**REDCOAT GUITAR SERIES**

**CV-65**

Tapping into another flavor of classic British tone, the 12” CV-65 features warm, throaty mids, sweet, articulate highs, and nice, detailed harmonic complexity. As compared to the 75 watt model, the 65 watt CV-65 is more round and full in the lows, less aggressive in the mids, and is more focused and articulate on the highs.

12” 65 watts 8 Ω

**SPECIFICATION**

- Nominal Basket Diameter: 12”, 305 mm
- Enclosure Type
  - Closed Back
- Acceptable Nomex Former
- Copper Voice Coil
- Ferrite Magnet
- Pressed Steel Basket
- Full Molded Paper Cone
- Paper Cone Edge
- Zurette Dust Cap
- Nominal Impedance: 8 Ω
- Power Handling: 65 W
- Frequency Response: 76 Hz – 5 kHz
- Sensitivity: 100.6 dB
- Impedance: 6.9 Ω
- Magnet Weight: 25 oz.
- Voice Coil Diameter: 0.25", 6.1 mm
- DC Resistance: 6.9 Ω

**MOUNTING INFORMATION**

- Mounting Information
  - Material of Construction
  - Mounting Information
  - Net Weight
  - Shipping Weight

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

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Visit eminence.com to find a dealer near you.
**Redcoat Guitar Series**

**The Governor™**

A versatile guitar speaker with classic British tone, offering tight, punchy lows, warm, raunchy mids, warm, smooth highs, and early break-up. A favorite among professional players on both sides of the pond.

12” 75 Watts @ 8 or 16Ω

**Specifications**

- Nominal Basket Diameter: 12”, 305 mm
- Enclosure Type: Closed Back
- Copper voice coil

**Materials of Construction**

- Voice Coil Diameter: 0.25”, 6.4 mm
- Formed Steel Basket

**Diaphragm & Ferrofluid**

- Paper cone
- Paper cone edge
- Zurette dust cap
- Ferrite magnet
- Nomex former
- Copper voice coil

**Mounting Information**

- Mounting Location: 0.87”, 22.1 mm
- Mounting Hole Diameter: 1.75”, 44.5 mm
- Mounting Hole B.C.D.: 3.19”, 80.9 mm
- Mounting Hole Depth: 0.31”, 7.9 mm

**Frequency Response & Impedance Curve**

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

---

**Redcoat Guitar Series**

**The Wizard™**

The Eminence Wizard guitar speaker is one of the most versatile and well-balanced 12" speakers you will find. Very articulate, but with a hint of grit. Nice sustain and exceptionally tight bottom. Classic Rock tones of the '60s and '70s, and a favorite among today’s heavy rockers.

12” 75 Watts @ 8 or 16Ω

**Specifications**

- Nominal Basket Diameter: 12”, 305 mm
- Enclosure Type: Closed Back
- Copper voice coil

**Materials of Construction**

- Voice Coil Diameter: 0.25”, 6.4 mm
- Formed Steel Basket

**Diaphragm & Ferrofluid**

- Paper cone
- Paper cone edge
- Zurette dust cap
- Ferrite magnet
- Nomex former
- Copper voice coil

**Mounting Information**

- Mounting Location: 0.87”, 22.1 mm
- Mounting Hole Diameter: 1.75”, 44.5 mm
- Mounting Hole B.C.D.: 3.19”, 80.9 mm
- Mounting Hole Depth: 0.31”, 7.9 mm

**Frequency Response & Impedance Curve**

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

---

*Visit eminence.com to find a dealer near you.*
FDM™ TECHNOLOGY

REIGNMAKER™

Don't sacrifice tone for lower stage volume! The Eminence ReignMaker™ guitar speaker with patent pending FDM™ technology puts tonal control at your fingertips. Simply adjust the knob on the back of the speaker to attenuate volume while creating an overdriven, saturated tube tone. Perfect for small venues, studios and practice situations. Very balanced British tone with tight/punchy lows, warm/detailed mids, abundant in harmonic detail, and articulate highs.

12” 75 WATTS 8 Ω

SPECIFICATION

Nominal Basket Diameter 12” 305 mm
Enclosure Type Acceptable

MOUNTING INFORMATION

Nominal Impedance* 8 O
Closed Back Acceptable

MATERIALS OF CONSTRUCTION

Copper voice coil

FREQUENCY RESPONSE & IMPEDANCE CURVE*

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>Impedance (Ω)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>5.01</td>
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<tr>
<td>200</td>
<td>5.03</td>
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</tbody>
</table>

FULL OUTPUT: Max attenuation

REDCOAT GUITAR SERIES

PRIVATE JACK™

The Eminence Private Jack guitar speaker is chock full of classic British flavor. A very well balanced speaker, moderate on the lows but thick and smooth, with abundant, warm and throaty mids and extended highs.

12” 50 WATTS 8 OR 16 Ω

SPECIFICATION

Nominal Basket Diameter 12” 305 mm
Enclosure Type Acceptable

MOUNTING INFORMATION

Nominal Impedance* 8 or 16 O
Closed Back Acceptable

MATERIALS OF CONSTRUCTION

Copper voice coil

FREQUENCY RESPONSE & IMPEDANCE CURVE*

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>Impedance (Ω)</th>
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<tr>
<td>20</td>
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<td>200</td>
<td>5.03</td>
</tr>
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</table>

FULL OUTPUT: Max attenuation

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

Visit eminence.com to find a dealer near you.
NO ONE KNOWS THE PHYSICS OF BASS CABINETS BETTER THAN EMINENCE.

Understanding how woofers push things around inside an enclosure is a science and an art. That’s why most bass amp manufacturers choose Eminence to supply custom designed speakers for their enclosures.

Whether it’s a small practice amp or 8x10 stack for the stage, there’s an Eminence speaker that’s designed to drive the lows as tight, fat, round or warm as you want.

The Legend Series has been a fixture on back lines for years, thumping out the bottom end for R&B, blues, rock, jazz and more. For lighter weight, but equal power, the Basslite® Series features neodymium magnets for maximum sonic punch without back-breaking load-ins.

In addition to our Legend and Basslite® models, Eminence offers many pro audio woofers that have been a mainstay among the industry’s finest players and amplifier brands.

PRO AUDIO MODELS for BASS

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<th>POWER</th>
<th>SPL</th>
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<tr>
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<td>150W</td>
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<tr>
<td>10&quot;</td>
<td>1200W</td>
<td>102 dB</td>
</tr>
<tr>
<td>DELTA 10A AND B</td>
<td>700W</td>
<td>99 dB</td>
</tr>
<tr>
<td>DELTAlite E 2510</td>
<td>500W</td>
<td>97 dB</td>
</tr>
<tr>
<td>BETA 10A</td>
<td>500W</td>
<td>97 dB</td>
</tr>
<tr>
<td>12&quot;</td>
<td>1200W</td>
<td>94 dB</td>
</tr>
<tr>
<td>DELTA 12LF AND C</td>
<td>1000W</td>
<td>95 dB</td>
</tr>
<tr>
<td>KAPPA Pro 1512LF</td>
<td>900W</td>
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</tr>
<tr>
<td>KAPPA lite 1512HD</td>
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<tr>
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<td>15&quot;</td>
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<td>BETA 15A</td>
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<td>18&quot;</td>
<td>1600W</td>
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<td>KAPPA 18LF</td>
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<tr>
<td>IMPERO 18A AND C</td>
<td>2400W</td>
<td>96 dB</td>
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</table>

**GH25-8**

A 25 watt driver and die cast horn combination optimized specifically for bass guitar applications.

Type | Exponential
--- | ---
Throat Size | 1.0", 25.4 mm
Dispersion | 40°
Power Rating** | 25 W (4Ω)
Nominal Impedance | 8 Ω
Minimum Impedance | 8.6 Ω (7.5 kHz)
Usable Frequency Range | 2.5 kHz - 20 kHz
Recommended Crossover | 2.5 kHz / 12 dB
Resonance | 1.3 kHz
Sensitivity | 100.2 dB
| Width/Height/Depth | 4.20 x 4.20 x 4.80", 106.7 x 106.7 x 121.9 mm
Cut-out | 2.5 in., 63.5 mm
Weight | 2.20 lbs, 1.00 kg
Material | Aluminum

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

---

** BIG BEN **

The Eminence Big Ben guitar speaker sounds off with big British tone... A very clean and warm throaty tone with fat bass and smooth mids and highs. Abundant in lower-mid girth. A fatter, cleaner Legend 1518. A favorite among Jazz and detuned players.
**BASS GUITAR**

**LEGEND CA10**

Made famous as an OEM model in many popular bass guitar cabinet brands, this highly sought after design features a truncated cast frame chassis for tight fitting in your 2x, 4x and 8x10 cabinet. Loud and clear bass guitar tone with legendary growl.

- 400 W Program Power
- 10" Nominal Diameter
- 8 or 16 Ω

**SPECIFICATION**

- Nominal Basket Diameter 10", 254 mm
- Nominal Power 250 W
- Nominal Impedance* 4 or 16 Ω
- Power Rating* 8 or 16 Ω
- Nominal Diameter 10", 254 mm
- Usable Frequency Range 50 Hz – 3 kHz
- Sensitivity* BL 8 mm 105 dB
- Voice Coil Diameter 2", 51 mm
- Resonance 48 Hz
- Magnet Weight 500 oz.
- Magnet Diameter 7 mm
- Flat to Flat Diameter 10.14", 257.6 mm
- Mounting holes diameter 4.73", 115.1 mm
- Recommended Enclosure Volume 12.7 lbs., 5.76 kg
- Shipping weight 0.70 – 2.5 cu.ft.

**MATERIALS OF CONSTRUCTION**

- Copper voice coil
- Aluminum former
- Treated paper dust cap
- Cloth cone edge
- Die-cast aluminum basket
- Kapton former
- Edge wound aluminum voice coil
- Edge wound aluminum voice coil
- Paper cone
- Cloth cone edge
- Paper cone

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

**BASS GUITAR**

**LEGEND CA1059**

A larger magnet version of the popular Legend CA10, the legend CA1059 is a 10" cast-frame bass guitar speaker with a proven track record as THE speaker for punch and clarity in many famous OEM cabinets throughout the decades. Like the CA10, the CA1059's chassis is truncated on the sides for tight fitting in 2x, 4x and 8x10 configurations. Along with higher flux, the CA1059 also features a larger 39 oz. ferrite magnet, producing higher efficiency, and lower Qts for dampening than its smaller magnet version.

- 500 W Program Power
- 10" Nominal Diameter
- 8 or 16 Ω

**SPECIFICATION**

- Nominal Basket Diameter 10", 254 mm
- Nominal Power 250 W
- Nominal Impedance* 4 or 16 Ω
- Power Rating* 8 or 16 Ω
- Nominal Diameter 10", 254 mm
- Usable Frequency Range 50 Hz – 3.2 kHz
- Sensitivity* BL 7 mm 105 dB
- Voice Coil Diameter 2", 51 mm
- Resonance 48 Hz
- Magnet Weight 500 oz.
- Magnet Diameter 7 mm
- Flat to Flat Diameter 10.14", 257.6 mm
- Mounting holes diameter 4.73", 115.1 mm
- Recommended Enclosure Volume 12.7 lbs., 5.76 kg
- Shipping weight 0.70 – 2.5 cu.ft.

**MATERIALS OF CONSTRUCTION**

- Copper voice coil
- Aluminum former
- Treated paper dust cap
- Cloth cone edge
- Die-cast aluminum basket
- Kapton former
- Edge wound aluminum voice coil
- Edge wound aluminum voice coil
- Paper cone
- Cloth cone edge
- Paper cone

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

- **Midrange**
  - Sealed Box
  - Vented Box
- **Midbass**
  - Sealed Box
  - Vented Box
- **Woofer**
  - Sealed Box
  - Vented Box
- **Subwoofer**

**SPECIFICATION**

- **Nominal Basket Diameter** 10" (254 mm)
- **Nominal Impedance** 8 Ω
- **Power Rating**
  - 200 W
  - 400 W
- **Usable Frequency Range**
  - 30 Hz to 10 kHz
- **Sensitivity** 94 dB
- **Magnet Weight** 70 oz.
- **Voice Coil Diameter** 2" (51 mm)
- **Gap Height** 0.25" (6.4 mm)
- **Net Weight** 8.9 lbs (4.04 kg)

- **Nominal Basket Diameter** 8" (203 mm)
- **Nominal Impedance** 8 Ω
- **Power Rating**
  - 200 W
  - 400 W
- **Usable Frequency Range**
  - 60 Hz to 10 kHz
- **Sensitivity** 91 dB
- **Magnet Weight** 38 oz.
- **Voice Coil Diameter** 1.5" (38 mm)
- **Gap Height** 0.31" (7.9 mm)
- **Net Weight** 10.25 lbs (4.65 kg)

**ENCLOSURE**

- **Recommended Enclosure Volume**
  - Vented: 0.041 cu.ft., 1.17 liters
  - Sealed: 0.024 cu.ft., 0.68 liters

**MOUNTING INFORMATION**

- **Enclosure**
  - Vented Box
  - Sealed Box
- **Recommended Basket Diameter**
  - Vented: 8.9" (225 mm)
  - Sealed: 5.5" (140 mm)
- **Rear Sealing Gasket**
  - Vented: 9.13" (231.9 mm)
  - Sealed: 7.5" (190.5 mm)

**MATERIALS OF CONSTRUCTION**

- **Copper wire coil**
- **Polyimide former**
- **Ferrite magnet**
- **Paper cone**
- **Cloth cone edge**
- **Gold compression paper dust cap**

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

- **SPL vs Freq**
  - Lower Data: Import: LoFreqCorr91.txt
  - Higher Data: LEGEND BP102 SPL AVG

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---

**BASS GUITAR**

**LEGEND B102**

Recommended for professional bass guitar applications in a vented enclosure. The secondary whizzer cone extends the high-end frequency range. Great if you want a full range tone without adding a tweeter. Also suitable as a professional audio or home hi-fi midrange.

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

**SPECIFICATION**

- **Nominal Basket Diameter** 10" (254 mm)
- **Nominal Impedance** 8 Ω
- **Power Rating**
  - 800 W
  - 1600 W
- **Usable Frequency Range**
  - 34 Hz to 4 kHz
- **Sensitivity** 92.4 dB
- **Magnet Weight** 28 grams
- **Voice Coil Diameter** 2" (51 mm)
- **Gap Height** 0.31" (7.9 mm)
- **Net Weight** 9.7 lbs (4.4 kg)

**ENCLOSURE**

- **Recommended Enclosure Volume**
  - Vented: 10.25' (260.4 mm)
  - Sealed: 9.7' (247.7 mm)

**MOUNTING INFORMATION**

- **Enclosure**
  - Vented Box
  - Sealed Box
- **Recommended Basket Diameter**
  - Vented: 10.9 lbs (4.94 kg)
  - Sealed: 9.13 lbs (4.4 kg)
- **Rear Sealing Gasket**
  - Vented: 9.75' (247.7 mm)
  - Sealed: 8.9 lbs (4.04 kg)

**MATERIALS OF CONSTRUCTION**

- **Copper wire coil**
- **Polyimide former**
- **Ferrite magnet**
- **Non-vented cone**
- **Precut speaker basket**
- **Paper cone**
- **Cloth cone edge**
- **Grill cloth tabs**

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

- **SPL vs Freq**
  - Lower Data: Import: LoFreqCorr93.txt
  - Higher Data: ScalarAve
**BASS GUITAR**

**BASSLITE® SC10**

Optimized specifically for sealed bass cabinets, the ultra-lightweight BassLITE SC10 will take the weight out, but leave the performance in. Featuring a 5 oz. neodymium magnet and 2 inch voice coil, this 10 inch speaker is available in 16 and 32 ohms for your 4x10 or 8x10 rig.

- 300 W Program Power
- 100° Nominal Diameter
- 8 Ω

---

**SPECIFICATION**

<table>
<thead>
<tr>
<th>Nominal Basket Diameter</th>
<th>10”, 254 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Impedance*</td>
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<tr>
<td>Power Rating**</td>
<td>300 W</td>
</tr>
<tr>
<td>Frequency Response</td>
<td>46 Hz – 3 kHz</td>
</tr>
</tbody>
</table>

---

**MATERIALS OF CONSTRUCTION**

- Copper voice coil
- Pressed steel basket
- Curved paper cone
- Non-vented core
- Neodymium magnet
- Gold compression head dust cap

---

**THEILE & SMALL PARAMETERS**

<table>
<thead>
<tr>
<th>Fs</th>
<th>4.6 Hz</th>
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<tbody>
<tr>
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<tr>
<td>Qc</td>
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<tr>
<td>Qts</td>
<td>0.22</td>
</tr>
<tr>
<td>Qes</td>
<td>0.41</td>
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**THIEL & SMALL PARAMETERS**

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<tr>
<td>Qts</td>
<td>0.22</td>
</tr>
<tr>
<td>Qes</td>
<td>0.41</td>
</tr>
</tbody>
</table>

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**ENCLOSURE**

- Enclosure Types:
  - Sealed Box
  - Vented Box

---

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

---

**BASS GUITAR**

**BASSLITE® S2010**

An efficient, ultra-lightweight 10” neodymium speaker recommended for bass guitar applications. Ideal in vented 1X, 2X, and 4X10 enclosures.

- 300 W Program Power
- 100° Nominal Diameter
- 8 Ω

---

**SPECIFICATION**

<table>
<thead>
<tr>
<th>Nominal Diameter</th>
<th>10”, 254 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Impedance*</td>
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<td>Power Rating**</td>
<td>300 W</td>
</tr>
<tr>
<td>Frequency Response</td>
<td>46 Hz – 3 kHz</td>
</tr>
</tbody>
</table>

---

**MATERIALS OF CONSTRUCTION**

- Copper voice coil
- Pressed steel basket
- Neodymium magnet
- Non-vented core
- Pressed steel basket
- Paper cone
- Curved paper cone
- Gold compression head dust cap

---

**THEILE & SMALL PARAMETERS**

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<thead>
<tr>
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<td>Qes</td>
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<tr>
<td>Qes</td>
<td>0.41</td>
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</tbody>
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**ENCLOSURE**

- Enclosure Types:
  - Sealed Box
  - Vented Box

---

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

---

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

**LEGEND B810**

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

- 3000 W Program Power
- 1 ohm Nominal Diameter
- 80°C

**THIELE SMALL PARAMETERS**

- Fs 52 Hz
- SL 27.5 dB
- Bl 12.9 Hz

**MOUNTING INFORMATION**

- Recommended Enclosure Volume: 16–20 liters
- Nominal Basket Diameter: 4.35 in., 110 mm
- Nominal Power Rating: 300 W
- Program Power: 500 W
- Power Rating: 750 W
- Nominal Impedance: 8 Ω
- Nominal Basket Diameter: 10.4 in., 265 mm
- Enclosure: Vented Box

**ENCLOSE**

- Sealed Box
- Vented Box

**SPECIFICATION**

- Nominal Diameter: 10.4 in., 265 mm
- Nominal Impedance: 8 Ω
- Power Rating: 750 W
- Frequency Range: 35 Hz – 5.1 kHz
- Sensitivity: 92.7 dB
- Nominal Power: 300 W
- Program Power: 500 W
- Gap Height: 0.31 in., 7.9 mm

**MATERIALS OF CONSTRUCTION**

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

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

**BASS GUITAR**

**LEGEND BP122**

A 12” bass guitar driver that delivers warm, rich tone and deep bass. A big brother to the popular 10” Legend BP102, this 250 watt driver is at home in small sealed enclosures, and also works well in pro audio and home hi-fi applications.

- 5000 W Program Power
- 1 ohm Nominal Diameter
- 80°C

**THIELE SMALL PARAMETERS**

- Fs 35 Hz
- SL 34.6 dB
- Bl 2.72 mH

**MOUNTING INFORMATION**

- Recommended Enclosure Volume: 22.45–106.19 liters
- Nominal Diameter: 12.0 in., 305 mm
- Nominal Impedance: 8 Ω
- Frequency Range: 50 Hz – 2.3 kHz
- Sensitivity: 94.1 dB
- Nominal Power: 250 W
- Program Power: 500 W
- Gap Height: 0.31 in., 7.9 mm

**ENCLOSE**

- Sealed Box
- Vented Box

**SPECIFICATION**

- Nominal Diameter: 12.0 in., 305 mm
- Nominal Impedance: 8 Ω
- Power Rating: 750 W
- Frequency Range: 50 Hz – 2.3 kHz
- Sensitivity: 94.1 dB
- Nominal Power: 250 W
- Program Power: 500 W
- Gap Height: 0.31 in., 7.9 mm

**MATERIALS OF CONSTRUCTION**

- Copper voice coil
- Paper cone
- Fiberglass former
- Formed steel basket
- Non-vented cone
- Flexon coated voice coil
- Cloth cone edge
- Gold composition flat wire cap

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

**BASSLITE® S2012**

A highly efficient, ultra-lightweight 12" neodymium bass guitar speaker that strikes a balance between efficiency and low-end punch. Ideal in vented 1X, 2X, and 4 X12 enclosures.

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

**PRO AUDIO USAGE**

| Midrange | Sealed Box | ✓ |
| Midbass | ✓ | Vented Box | ✓ |
| Woofer | ✓ | Subwoofer | ✓ |

**ENCLOSEMENT**

- **Solid composition felt dust cap**
- **Cloth cone edge**
- **Paper cone**
- **Non-vented core**
- **Ferrite magnet**
- **Polyimide former**
- **Copper voice coil**

**MATERIALS OF CONSTRUCTION**

- **Copper voice coil**
- **Press-fit terminals**
- **NdFeB magnet**
- **Non vented core**
- **Pressed Steel Basket**
- **Paper cone**
- **Cotton cone edge**
- **Gold composition Ferro duct cap**

**SPECS**

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<th>fo</th>
<th>48 Hz</th>
<th>*f0</th>
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<td>3000 W</td>
<td>6000 W</td>
<td>10000 W</td>
<td>15000 W</td>
<td>20000 W</td>
<td>30000 W</td>
</tr>
</tbody>
</table>

**THIELE & SMALL PARAMETERS**

| Enclosure | 31–35 Wm. | 35 Hz – 2.1 kHz | 0.26” x 7.1 mm | 2.14” x 57.1 mm | 14 lbs, 6.35 kg |
| Sealed | 32 Hz | 35 Hz | 2.5” | 0.5” |
| Vented | 30 Hz | 30 Hz | 2.5” | 0.5” |

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

```
<table>
<thead>
<tr>
<th>Hz</th>
<th>150</th>
<th>300</th>
<th>500</th>
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<th>5K</th>
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<th>20K</th>
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<td>1100</td>
<td>1200</td>
<td>1300</td>
<td>1400</td>
<td>1500</td>
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</tbody>
</table>
```

**BASS GUITAR**

**LEGEND BP1525**

A 15" bass guitar driver that delivers warm, rich tone and deep bass. A big brother to the popular-10" Legend BP10, this 700 watt driver is at home in small sealed enclosures, and also works well in pro audio and home hi-fi applications.

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

**PRO AUDIO USAGE**

| Midrange | Sealed Box | ✓ |
| Midbass | ✓ | Vented Box | ✓ |
| Woofer | ✓ | Subwoofer | ✓ |

**ENCLOSEMENT**

- **Solid composition felt dust cap**
- **Cloth cone edge**
- **Paper cone**
- **Non-vented core**
- **Ferrite magnet**
- **Polyimide former**
- **Copper voice coil**

**MATERIALS OF CONSTRUCTION**

- **Copper voice coil**
- **Press-fit terminals**
- **NdFeB magnet**
- **Non vented core**
- **Pressed Steel Basket**
- **Paper cone**
- **Cotton cone edge**
- **Gold composition Ferro duct cap**

**SPECS**

<table>
<thead>
<tr>
<th>fo</th>
<th>32 Hz</th>
<th>*f0</th>
<th>35 Hz</th>
<th>2.1 kHz</th>
<th>0.31” x 7.9 mm</th>
<th>5.8” x 129.5 mm</th>
<th>91 dB</th>
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</thead>
<tbody>
<tr>
<td>8Ω</td>
<td>40 Hz</td>
<td>350 W</td>
<td>700 W</td>
<td>1500 W</td>
<td>3000 W</td>
<td>6000 W</td>
<td>10000 W</td>
</tr>
</tbody>
</table>

**THIELE & SMALL PARAMETERS**

| Enclosure | 150 Wm. | 35 Hz – 2.1 kHz | 0.31” x 7.9 mm | 5.8” x 129.5 mm | 14 lbs, 6.35 kg |
| Sealed | 35 Hz | 35 Hz | 5.2” | 0.5” |
| Vented | 30 Hz | 30 Hz | 5.2” | 0.5” |

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

```
<table>
<thead>
<tr>
<th>Hz</th>
<th>150</th>
<th>300</th>
<th>500</th>
<th>1K</th>
<th>2K</th>
<th>5K</th>
<th>10K</th>
<th>20K</th>
</tr>
</thead>
<tbody>
<tr>
<td>700</td>
<td>800</td>
<td>900</td>
<td>1000</td>
<td>1100</td>
<td>1200</td>
<td>1300</td>
<td>1400</td>
<td>1500</td>
</tr>
</tbody>
</table>
```

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

**LEGEND CA154**

High SPL 4 ohm, 15" woofer recommended for use in bass guitar cabinets or in a PA cabinet.

- 600 W Program Power
- 15" Nominal Diameter
- 4 Ω

---

**SPECIFICATION**

<table>
<thead>
<tr>
<th>Nominal Basket Diameter</th>
<th>15&quot;, 381 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Impedance*</td>
<td>4 Ω</td>
</tr>
<tr>
<td>Power Rating**</td>
<td>600 W</td>
</tr>
<tr>
<td>Program Power</td>
<td>600 W</td>
</tr>
<tr>
<td>Nominal Power</td>
<td>300 W</td>
</tr>
<tr>
<td>Enclosure</td>
<td>Sealed Box</td>
</tr>
</tbody>
</table>

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**MOUNTING INFORMATION**

<table>
<thead>
<tr>
<th>Es</th>
<th>5.1 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE</td>
<td>2.93 Ω</td>
</tr>
<tr>
<td>QL</td>
<td>0.88</td>
</tr>
<tr>
<td>QMS</td>
<td>0.24</td>
</tr>
<tr>
<td>Vd</td>
<td>0.11 mm/N</td>
</tr>
<tr>
<td>Fs</td>
<td>30 Hz – 5 kHz</td>
</tr>
</tbody>
</table>

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**THIELE & SMALL PARAMETERS**

<table>
<thead>
<tr>
<th>Xlim</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xmax</td>
<td>70</td>
</tr>
<tr>
<td>Gms</td>
<td>50</td>
</tr>
<tr>
<td>Gms</td>
<td>80</td>
</tr>
<tr>
<td>Gms</td>
<td>100</td>
</tr>
<tr>
<td>Gms</td>
<td>150</td>
</tr>
</tbody>
</table>

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**MATERIALS OF CONSTRUCTION**

- Copper voice coil
- Polypropylene former
- Cloth magnet
- Paper cone
- Pressed steel basket
- Foam dust cap
- Round paper dust cap

---

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

---

**LEGEND CB158**

A proven 15" bass guitar speaker with vintage qualities that packs a lot of sonic punch. Recommended for sealed or vented enclosures.

- 600 W Program Power
- 15" Nominal Diameter
- 8 Ω

---

**SPECIFICATION**

<table>
<thead>
<tr>
<th>Nominal Basket Diameter</th>
<th>15&quot;, 381 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Impedance*</td>
<td>8 Ω</td>
</tr>
<tr>
<td>Power Rating**</td>
<td>600 W</td>
</tr>
<tr>
<td>Program Power</td>
<td>600 W</td>
</tr>
<tr>
<td>Nominal Power</td>
<td>200 W</td>
</tr>
<tr>
<td>Enclosure</td>
<td>Vented Box</td>
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</tbody>
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**MOUNTING INFORMATION**

<table>
<thead>
<tr>
<th>Es</th>
<th>36 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE</td>
<td>4.1 Ω</td>
</tr>
<tr>
<td>QL</td>
<td>0.11 mm/N</td>
</tr>
<tr>
<td>QMS</td>
<td>0.24</td>
</tr>
<tr>
<td>Vd</td>
<td>0.35 mm</td>
</tr>
<tr>
<td>Fs</td>
<td>34 Hz</td>
</tr>
</tbody>
</table>

---

**THIELE & SMALL PARAMETERS**

<table>
<thead>
<tr>
<th>Xlim</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xmax</td>
<td>70</td>
</tr>
<tr>
<td>Gms</td>
<td>50</td>
</tr>
<tr>
<td>Gms</td>
<td>80</td>
</tr>
<tr>
<td>Gms</td>
<td>100</td>
</tr>
<tr>
<td>Gms</td>
<td>150</td>
</tr>
</tbody>
</table>

---

**MATERIALS OF CONSTRUCTION**

- Copper voice coil
- Polypropylene former
- Cloth magnet
- Foam dust cap
- Cloth magnet
- Vent and extended cone
- Hinged paper cone
- Paper cone
- Cloth cone edge
- Grid compensation paper dust cap

---

**FREQUENCY RESPONSE & IMPEDANCE CURVE**

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

---

**VISIT EMINENCE.COM TO FIND A DEALER NEAR YOU.**
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 Thiele and Small papers concentrated on showing how the following parameters define the performance information.

**Understanding Loudspeaker Data**

**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. Thiele, and Richard H. Small.

The Thiele and Small parameters concentrated on showing how the following parameters define the performance information. 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.

**Q Parameters**

- **Qts**, Qes, and Qtc are all measurements related to the control of a speaker’s suspension when it reaches the resonant frequency.

- **Qts** is a measurement of 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 your Qts information so that you can determine how much your enclosure from ringing like a bell when it reaches its resonant frequency.

- **Qes** is a measurement of the speaker’s electrical suspension system; the voice coil and magnet.

- **Qtc** is called the “Total Q” of the driver and is derived from an equation where Qes is multiplied by Qts and the result is divided by the sum of the result. 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 18T has a Qts of 16 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** is not to be confused with the recommended enclosure size. It represents the equivalent stiffness in an air spring as 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.

**Dc Resistance**

This parameter is the voice coil inductance of the transducer measured in millihenries (mH).

**Bl**

Expressed in Tesla meters a 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 rated by the manufacturer. Many consumers get concerned when they see the ohm that 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.

**Usable Frequency Range**

This data is relatively self-explanatory. It is the frequency range for which Eminence feels the device will prove useful. This is an important point to measure baffle parameters 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 191.5 cm using a variety of test set-ups for the appropriate impedance. (SMS 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.] (Walker PR100 Trans-Neva amplifier) [2.700 cu. ft. anechoic chamber with fiberglass on all six surfaces (three with custom made wedges)].

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 coil to handle the input power you are going to provide. This specification is very important to transistor 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 transistor’s ability to handle power is its ability to release thermal energy. Those loudspeaker characteristics are affected by several design changes, but most notably voice coil size, magnet size, venting, and the adhesives used in voice coil construction.

**Usable 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 10 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 at a distance of one meter, with 1 watt of input power across the frequency response curve. A loudspeaker measurement software program then generally calculates the average sound pressure level over the response curve. This is a good method and usually very accurate. The problem is that any 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.

**Usable Power Rating**

The Eminence method represents the average output across the usable frequency range when applying 1W/1m into the nominal impedance. i.e.: 2.83V/8Ω, 4/8Ω.

**Power Rating**

This specification is very important to transistor 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 transistor’s ability to handle power is its ability to release thermal energy.
MISSION STATEMENT

Eminence is dedicated to providing the best Quality, Value and Service to meet our customers’ needs.

CORE VALUES

Mark 10:43 – 45

“...whoever wants to become great among you must be your servant... For even the Son of Man did not come to be served, but to serve, and to give his life as a ransom for many.”

At Eminence, our business principles are rooted in our personal faith and beliefs. We strive to show humility, respect and fairness toward all. We are grateful for our successes and learn from our failures. We are called to use our gifts and talents to serve others. It is through this service that we are truly blessed each and every day.

FOOTNOTES

IMPEDANCE

Please consult www.eminence.com for specifications of models with alternative impedances.

POWER RATING

Multiple units exceed published ratings evaluated under EIA-426A specification while tested in a free-air, non-temperature-controlled environment. Multiple compression drivers exceeded published ratings evaluated under EIA-426A or AES specification while mounted on Eminence’s H290, H290S, or H2EA horn in a non-temperature-controlled environment.

SENSITIVITY

The average output across the usable frequency range when applying 1W/1m into the nominal impedance. i.e: 2.83V/8Ω, 4V/16Ω. Eminence response curves are measured under the following conditions: All speakers are tested at 1W/1m using a variety of test set-ups for the appropriate impedance | LMS using 0.25" supplied microphone (software calibrated) mounted 1m from wall/baffle | 2 ft. x 2 ft. baffle is built into the wall with the speaker mounted flush against a steel ring for minimum diffraction | Yamaha P3500S amplifier | 2700 cu. ft. chamber with fiberglass on all six surfaces (three with custom made wedges). Compression drivers were tested using a 2ft x 2ft baffle built into the wall with horn front mounted.

COAXIALS

BETA 8CX, 10CX, and 12CX are coaxial speakers with tweeter sold separately. Published usable frequency response contingent upon use of ASD:1001 HF Driver.

Prices, product cosmetics and specifications are subject to change without notice.

Mission Statement

At Eminence, our business principles are rooted in our personal faith and beliefs. We strive to show humility, respect and fairness toward all. We are grateful for our successes and learn from our failures. We are called to use our gifts and talents to serve others. It is through this service that we are truly blessed each and every day.