



AMERICAN STANDARD SERIES

DELTA-12A

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



SPECIFICATION

| | |
|-------------------------|-----------------|
| Nominal Basket Diameter | 12.0", 305 mm |
| Nominal Impedance* | 8 Ω |
| Power Rating** | |
| Watts | 400 W |
| Music Program | 800 W |
| Resonance | 55 Hz |
| Usable Frequency Range | 54 Hz – 5.0 kHz |
| Sensitivity*** | 98.3 dB |
| Magnet Weight | 56 oz. |
| Gap Height | .375", 9.5 mm |
| Voice Coil Diameter | 2.5", 64 mm |

THIELE & SMALL PARAMETERS*

| | |
|------|---------------------------|
| Fs | 55 Hz |
| Re | 6.30 Ω |
| Le | 0.74 mH |
| Qms | 5.27 |
| Qes | 0.46 |
| Qts | 0.43 |
| Vas | 2.87 cu.ft., 81.30 liters |
| Vd | 125.0 cc |
| Cms | 0.21 mm/N |
| BL | 13.50 T-M |
| Mms | 39 grams |
| EBP | 120 |
| Xmax | 2.40 mm |
| Sd | 519.5 cm ² |
| Xlim | 9.9 mm |

MOUNTING INFORMATION

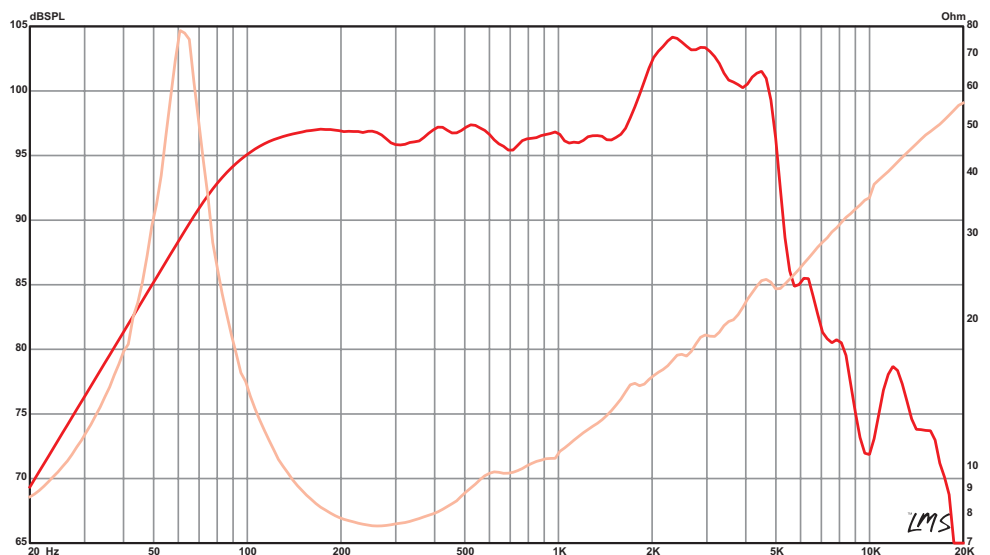
| | |
|------------------------------|---|
| Recommended Enclosure Volume | |
| Sealed | N/A |
| Vented | 25.50–85.00 liters, 0.90–3.00 cu.ft. |
| Driver Volume Displaced | 0.079 cu.ft., 2.25 liters |
| Overall Diameter | 12.03", 305.6 mm |
| Baffle Hole Diameter | 11.07", 281.2 mm |
| Front Sealing Gasket | Yes |
| Rear Sealing Gasket | Yes |
| Mounting Holes Diameter | 0.25", 6.4 mm |
| Mounting Holes B.C.D. | 11.59", 294.4 mm |
| Depth | 5.35", 135.9 mm |
| Net Weight | 11.40 lbs, 5.17 kg |
| Shipping Weight | 13.50 lbs, 6.12 kg |

MATERIALS OF CONSTRUCTION

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



FREQUENCY RESPONSE & IMPEDANCE CURVE*



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From design and manufacturing to the stage or studio. Once you've experienced the performance of Eminence, you'll never accept anything else.

MISSION STATEMENT

Eminence is dedicated to providing the best Quality, Value and Service to meet our customers' needs.

FOOTNOTES

- * Please consult www.eminence.com for specifications of models with alternative impedances.
- ** Multiple units exceed published ratings evaluated under EIA 426A specification while tested in a free-air, non-temperature-controlled environment.
- *** 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 | Carver PM-120 amplifier | 2700 cu. ft. chamber with fiberglass on all six surfaces (three with custom-made wedges).
- **** BETA 8CX, 10CX, and 12CX are coaxial speakers with tweeter sold separately. Published usable frequency response contingent upon use of ASD:1001 HF Driver.
- ***** Multiple units 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.
- *****The average on axis output across the entire 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 | 2ft x 2ft baffle is built into the wall with horn front mounted | Carver PM-120 amplifier | 2700 cu.ft. chamber with fiberglass on all six surfaces (three with custom-made wedges).

Prices, specifications and product cosmetics are subject to change without notice.

EMINENCE SPEAKER LLC

838 Mulberry Pike, Eminence, KY 40019



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Delta12A Larger Vented Cab.; Low Pwr Full Range PA Cab.

By McJerry, Eminence Speaker LLC

Displacement Limited to 50 Watts; for best results use a steep high pass filter set to 40 Hz or higher to protect woofer from overexcursion.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 2.75 cu.ft

V(total) = 2.89 cu.ft

Fb = 55 Hz

QL = 7

F3 = 61.87 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 3.712 in

Driver Properties

--Description--

Name: Delta-12 (8 ohm)

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid composition paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 2.5 inch (63.5 mm) AL Wire. Kapton former.

Magnet: 56 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 55 Hz

Qms = 5.27

Vas = 81.3 liters

Cms = 0.21 mm/N

Mms = 39 g

Rms = 2.55 kg/s

Xmax = 2.4 mm

Xmech = 9.9 mm

P-Dia = 257.8 mm

Sd = 519.5 sq.cm

P-Vd = 0.125 liters

--Electrical Parameters--

Qes = 0.46

Re = 6.3 ohms

Le = 0.74 mH

Z = 8 ohms

BL = 13.5 Tm

Pe = 400 watts

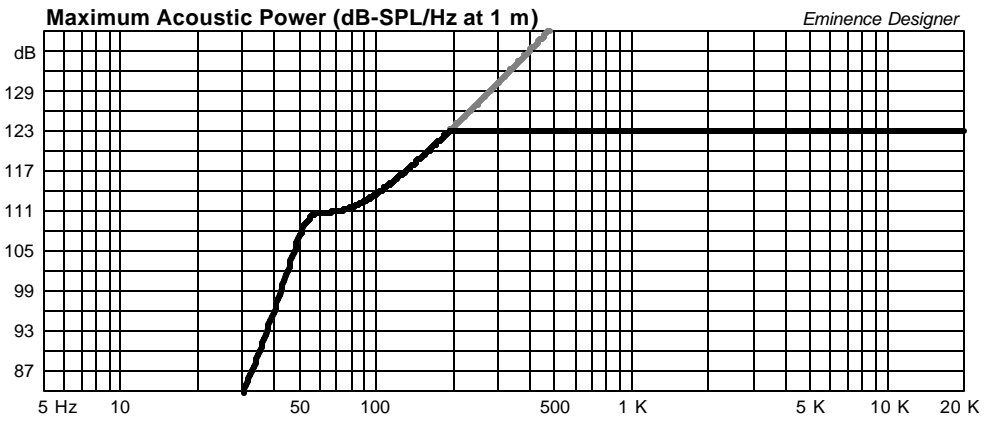
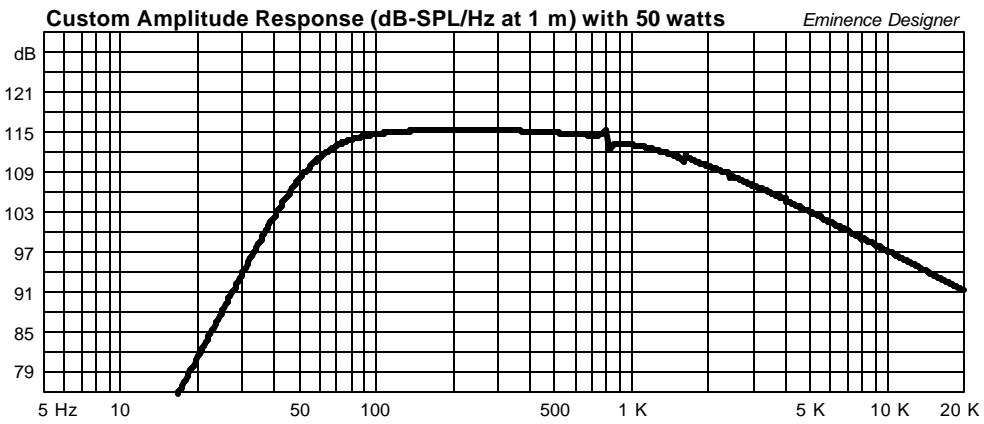
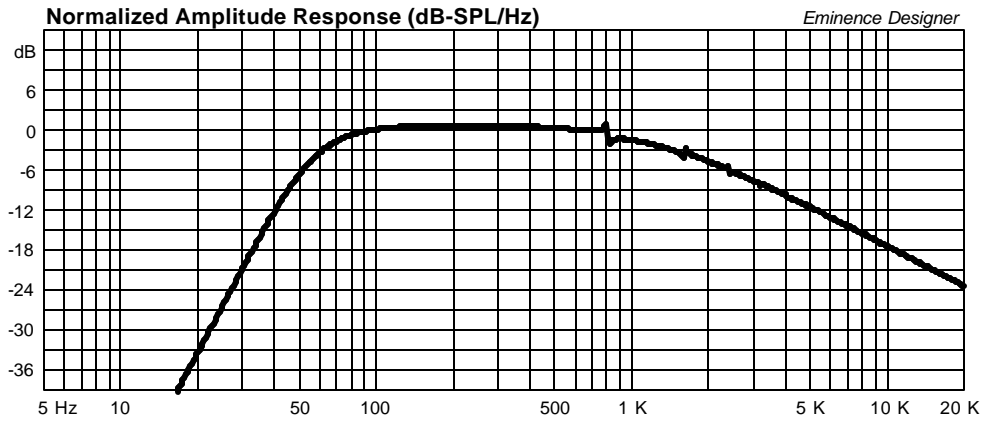
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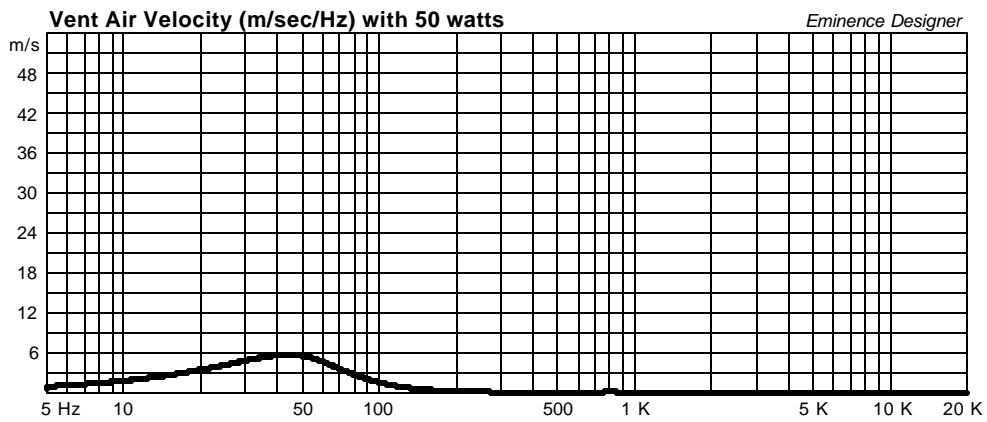
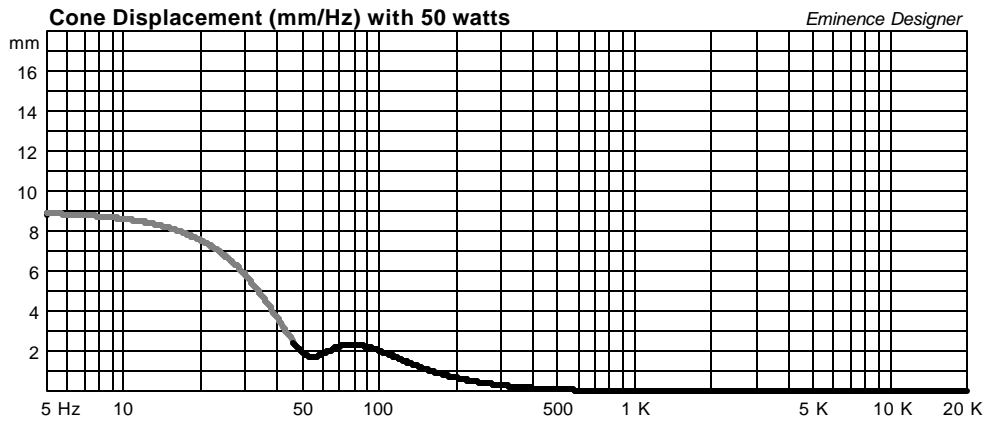
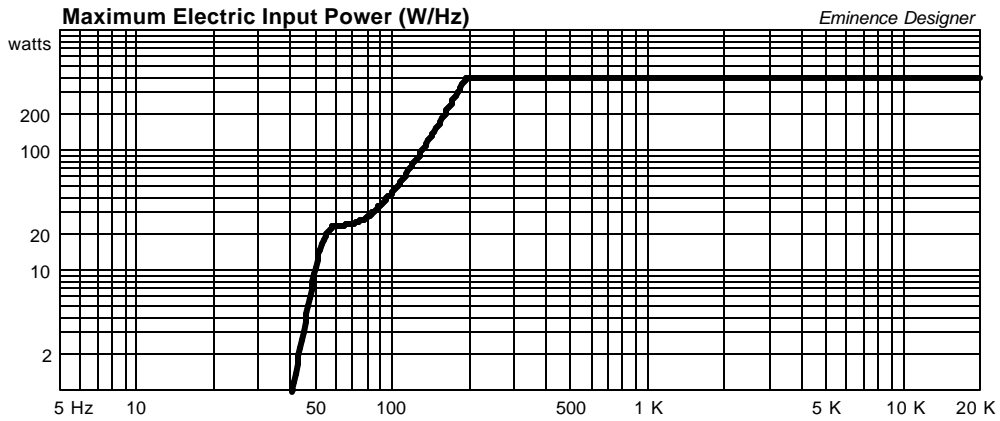
Qts = 0.43

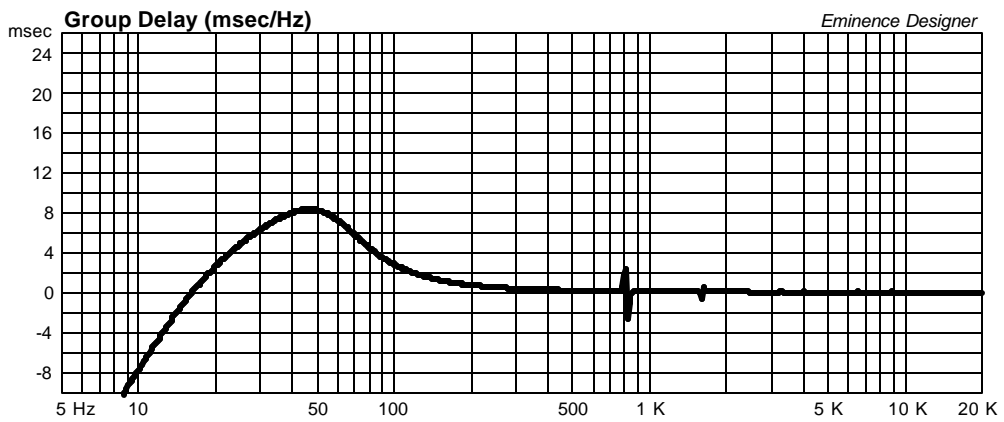
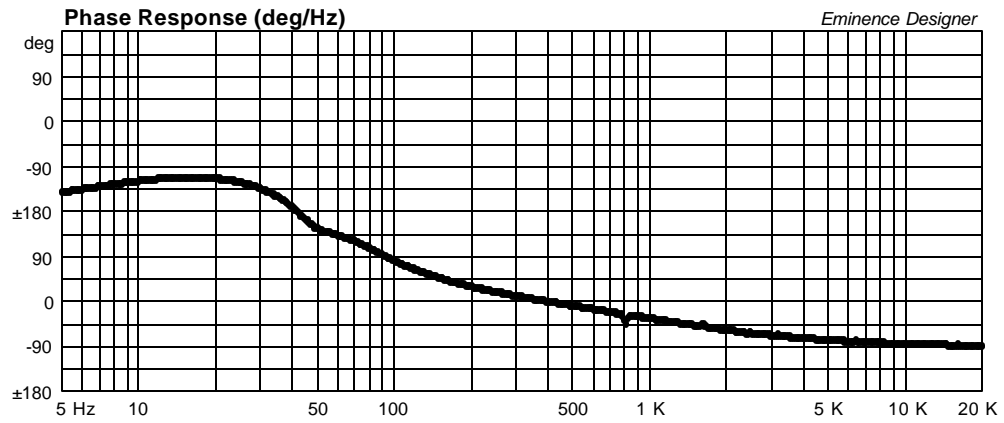
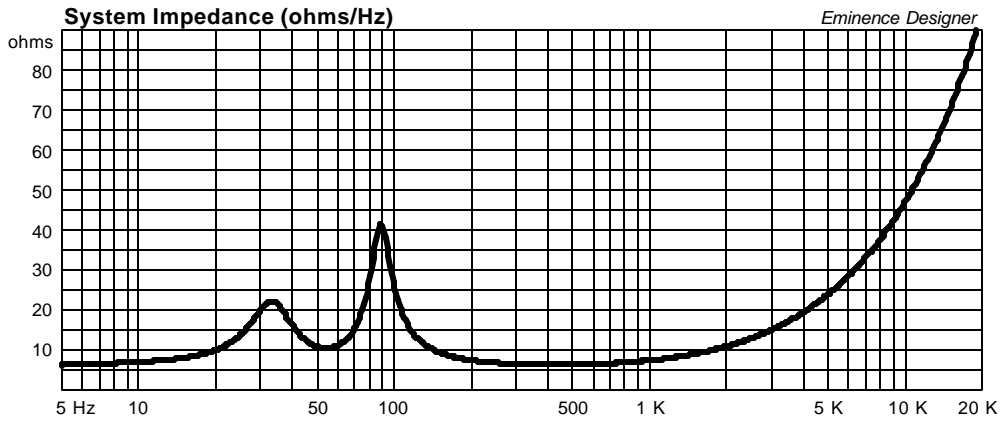
no = 2.835 %

1-W SPL = 96.67 dB

2.83-V SPL = 97.71 dB







Delta12A Med Vented Cab.; Med Pwr Two Way Sat Type Cab.

By McJerry, Eminence Speaker LLC

Displacement limited to 100 Watts; use a steep high pass filter set to 70 Hz or higher.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 1.35 cu.ft

V(total) = 1.453 cu.ft

Fb = 70 Hz

QL = 7

F3 = 78.85 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 2.423 in

Driver Properties

--Description--

Name: Delta-12 (8 ohm)

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid composition paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 2.5 inch (63.5 mm) AL Wire. Kapton former.

Magnet: 56 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 55 Hz

Qms = 5.27

Vas = 81.3 liters

Cms = 0.21 mm/N

Mms = 39 g

Rms = 2.55 kg/s

Xmax = 2.4 mm

Xmech = 9.9 mm

P-Dia = 257.8 mm

Sd = 519.5 sq.cm

P-Vd = 0.125 liters

--Electrical Parameters--

Qes = 0.46

Re = 6.3 ohms

Le = 0.74 mH

Z = 8 ohms

BL = 13.5 Tm

Pe = 400 watts

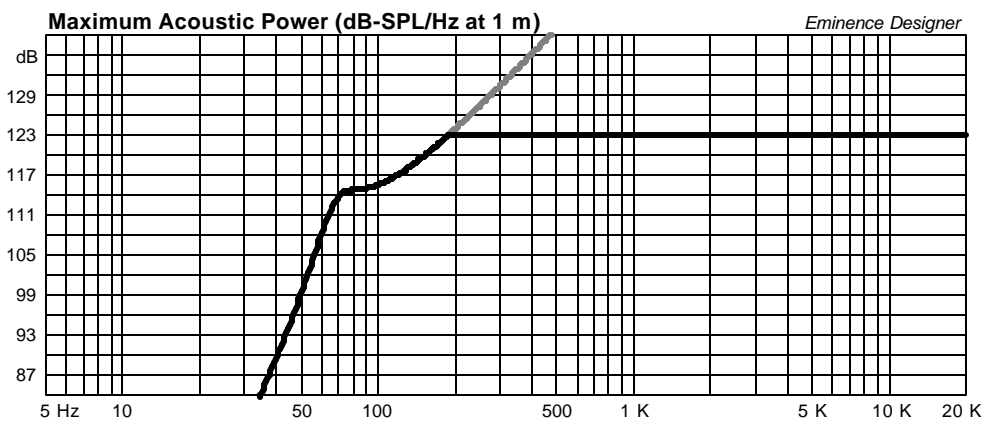
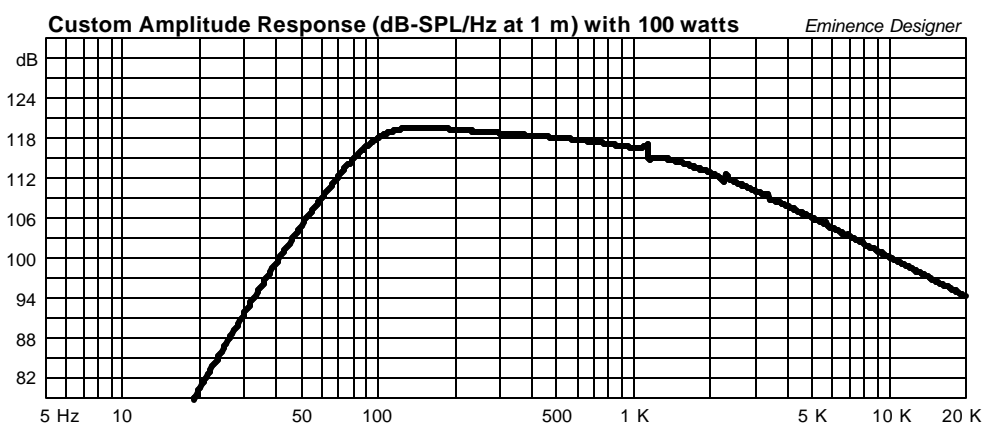
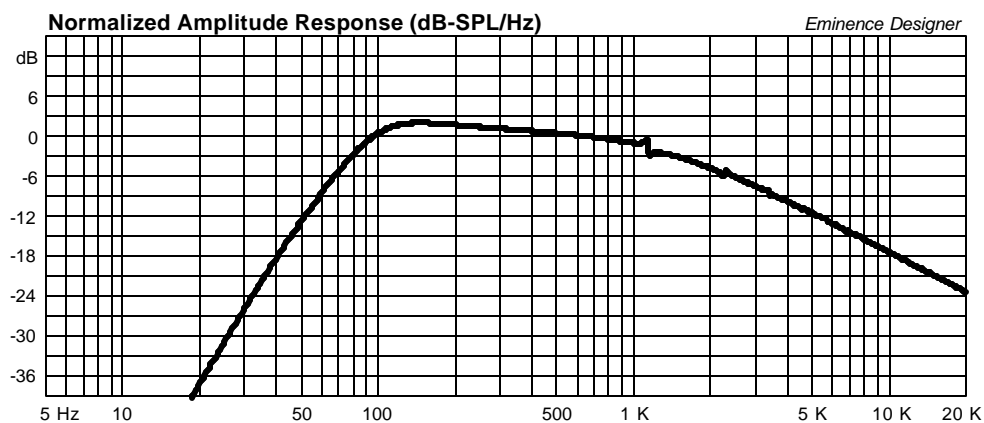
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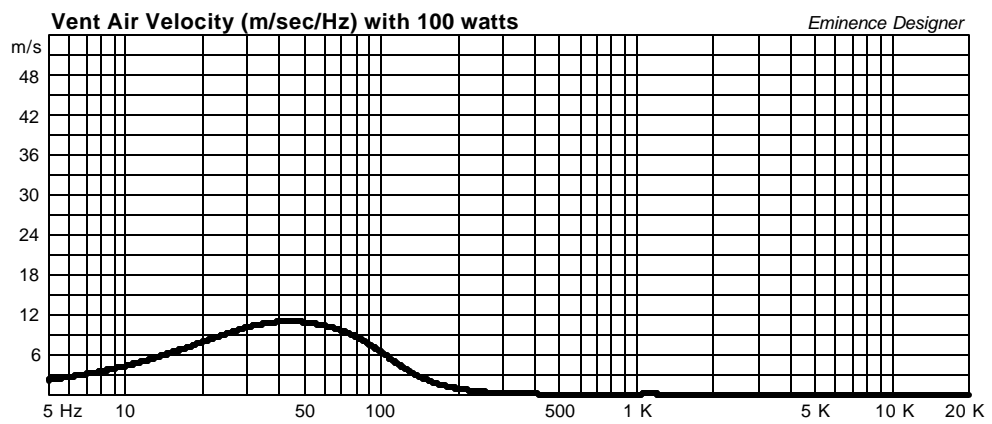
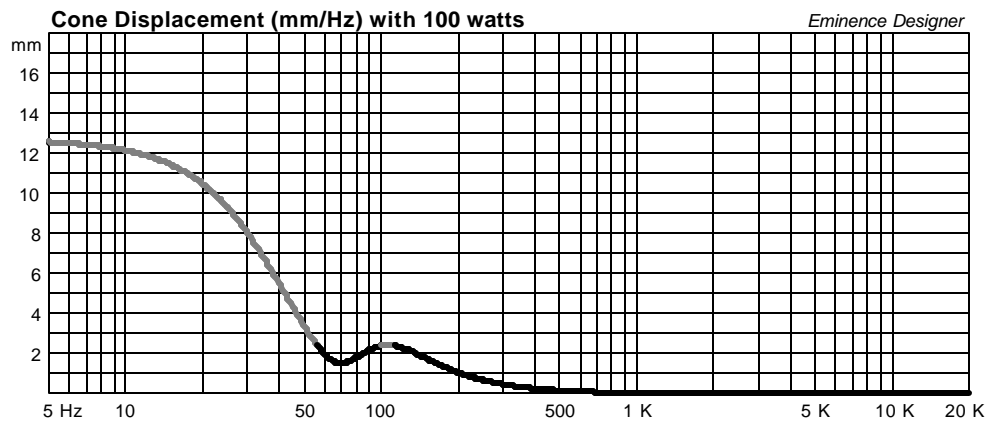
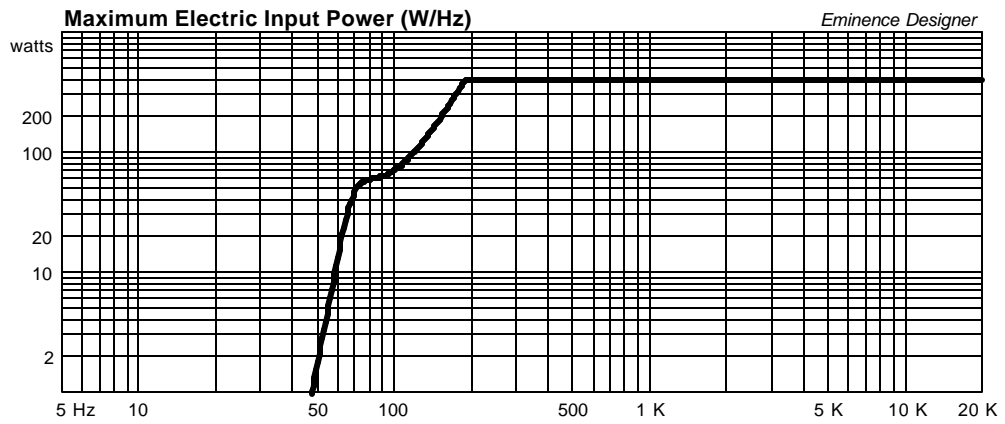
Qts = 0.43

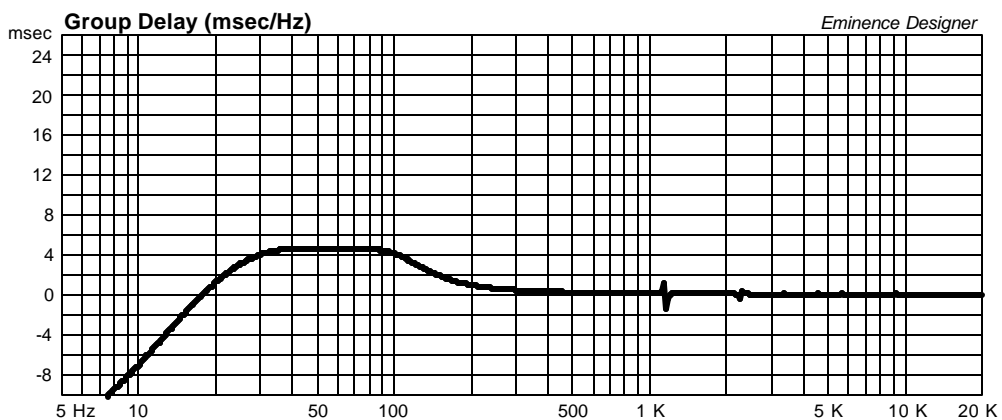
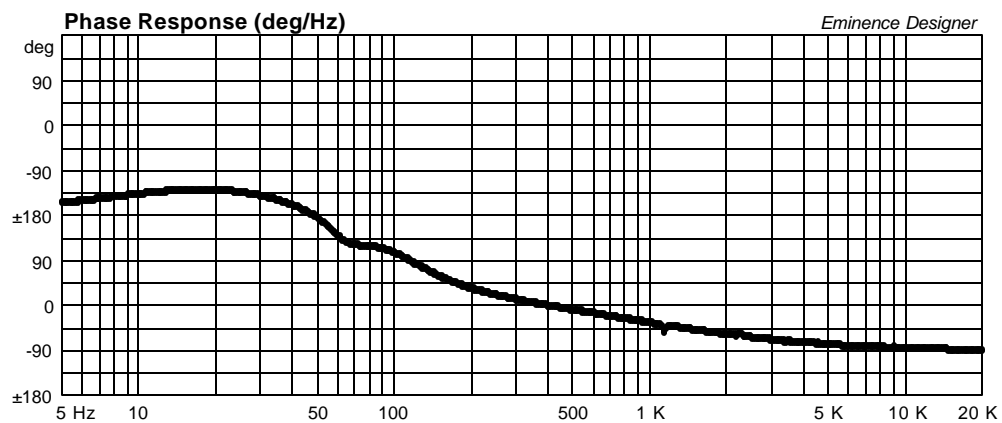
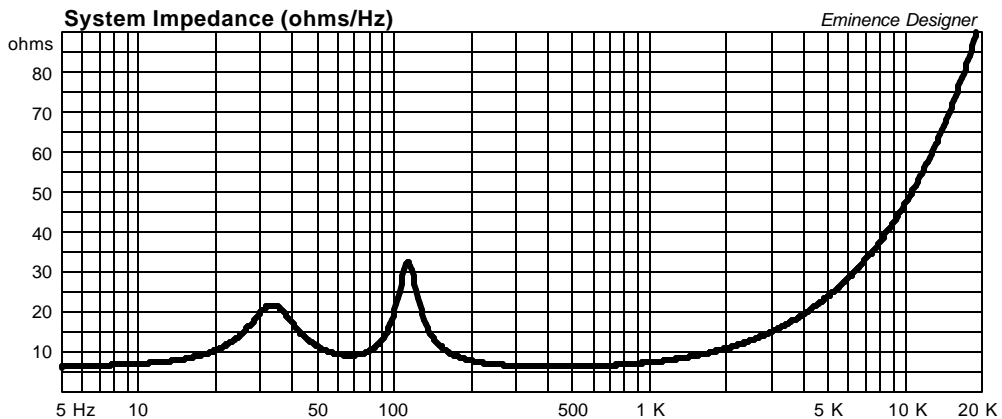
no = 2.835 %

1-W SPL = 96.67 dB

2.83-V SPL = 97.71 dB







Delta12A Small Vented Cab.; Med Pwr Mid/High Box

By McJerry, Eminence Speaker LLC

Displacement Limited to 200 Watts; use a steep high pass filter set to 100 Hz or higher. Great for Med power, very small Sat type cabinet.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 0.75 cu.ft

V(total) = 0.837 cu.ft

Fb = 110 Hz

QL = 7

F3 = 100.2 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 2.971 in

Lv = 0.75 in

Driver Properties

--Description--

Name: Delta-12 (8 ohm)

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid composition paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 2.5 inch (63.5 mm) AL Wire. Kapton former.

Magnet: 56 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 55 Hz

Qms = 5.27

Vas = 81.3 liters

Cms = 0.21 mm/N

Mms = 39 g

Rms = 2.55 kg/s

Xmax = 2.4 mm

Xmech = 9.9 mm

P-Dia = 257.8 mm

Sd = 519.5 sq.cm

P-Vd = 0.125 liters

--Electrical Parameters--

Qes = 0.46

Re = 6.3 ohms

Le = 0.74 mH

Z = 8 ohms

BL = 13.5 Tm

Pe = 400 watts

--Electromech. Parameters--

Qts = 0.43

no = 2.835 %

1-W SPL = 96.67 dB

2.83-V SPL = 97.71 dB

