

NEODYMIUM SERIES

PRO 5MRN-8

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



- | | | | |
|--|---|--|--|
| <input checked="" type="checkbox"/> Midrange | <input type="checkbox"/> Woofer | <input checked="" type="checkbox"/> Sealed Box | <input type="checkbox"/> Scoop Loading |
| <input type="checkbox"/> Midbass | <input type="checkbox"/> Subwoofer | <input type="checkbox"/> Vented Box | <input type="checkbox"/> Horn Loading |
| | <input checked="" type="checkbox"/> Bass Guitar | | |

SPECIFICATION

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

THIELE & SMALL PARAMETERS*

Fs	223 Hz
Re	5.45 Ω
Le	0.18 mH
Qms	2.8
Qes	0.93
Qts	0.7
Vas	0.03 cu.ft., 0.85 liters
Vd	3.6 cc
Cms	0.12 mm/N
BL	5.84 T-M
Mms	4 grams
EBP	239
Xmax	0.51 mm
Sd	71.3 cm ²
Xlim	5 mm

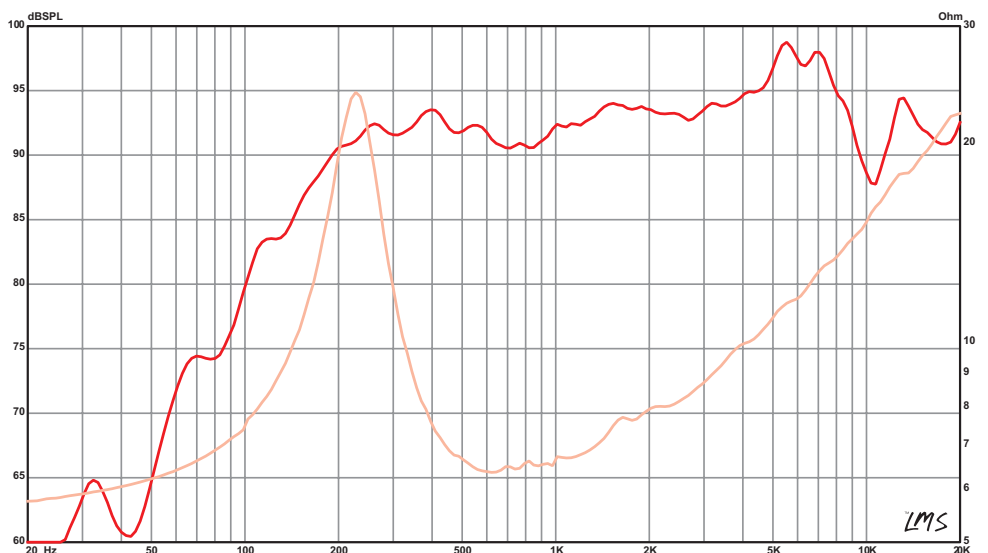
MOUNTING INFORMATION

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

MATERIALS OF CONSTRUCTION

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

FREQUENCY RESPONSE & IMPEDANCE CURVE*





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

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PRO-5MRN-8 Small Sealed Mid/Tweet Cab

By Jerry McNutt, Eminence Speaker LLC
Limit to 60 Watts. Use above 500 Hz.
Use a steep high pass filter at 500 Hz or higher.



Box Properties

--Description--

Name:
Type: Closed Box
Shape: Prism, square
--Box Parameters--
Vb = 0.0405 cu.ft
V(total) = 0.048 cu.ft
Qtc = 0.8
QL = 20
F3 = 261.7 Hz
Fill = normal

Driver Properties

--Description--

Name: PRO-5MRN-8
Type: Standard one-way driver
Company: Eminence Speaker USA
Comment: Pro 5" mid/tweet

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

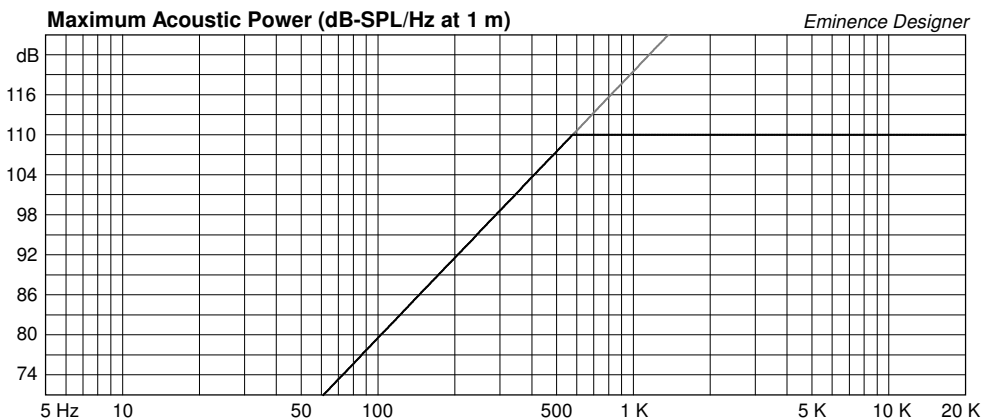
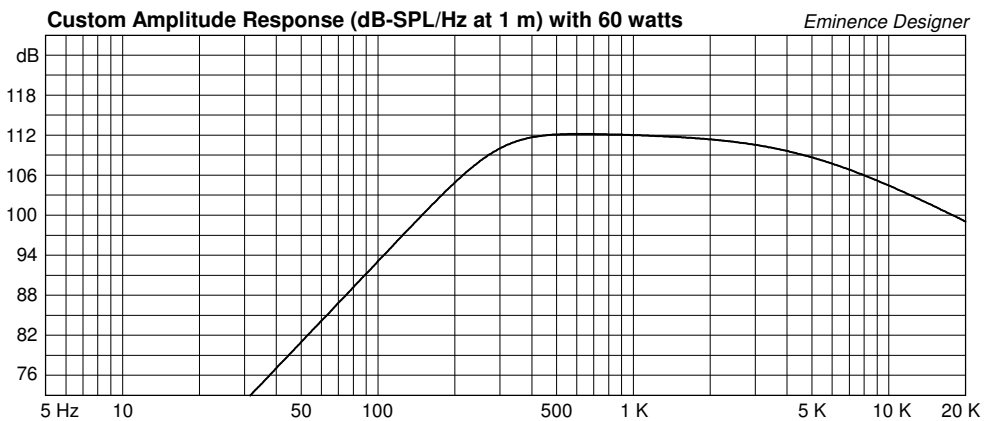
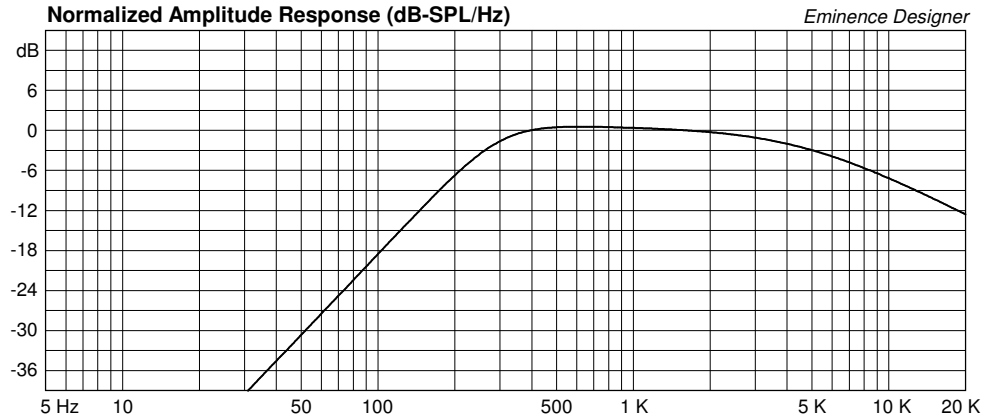
Fs = 222.7 Hz
Qms = 2.8
Vas = 0.85 liters
Cms = 0.12 mm/N
Mms = 4.18 g
Rms = 2.09 kg/s
Xmax = 0.51 mm
Xmech = 3.1 mm
P-Dia = 94.83 mm
Sd = 71.3 sq.cm
P-Vd = 0.0036 liters

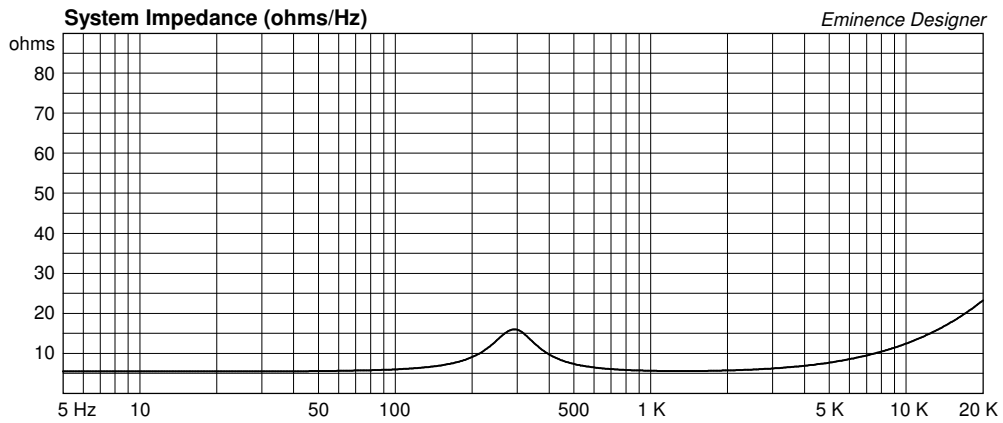
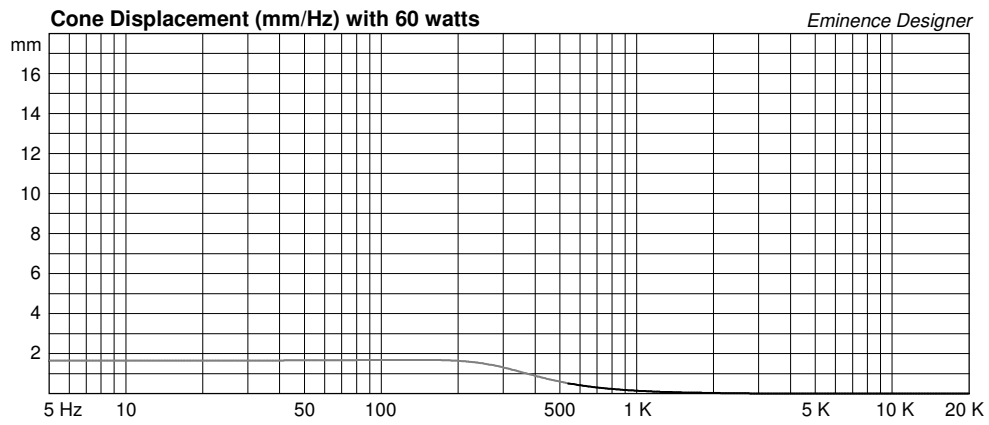
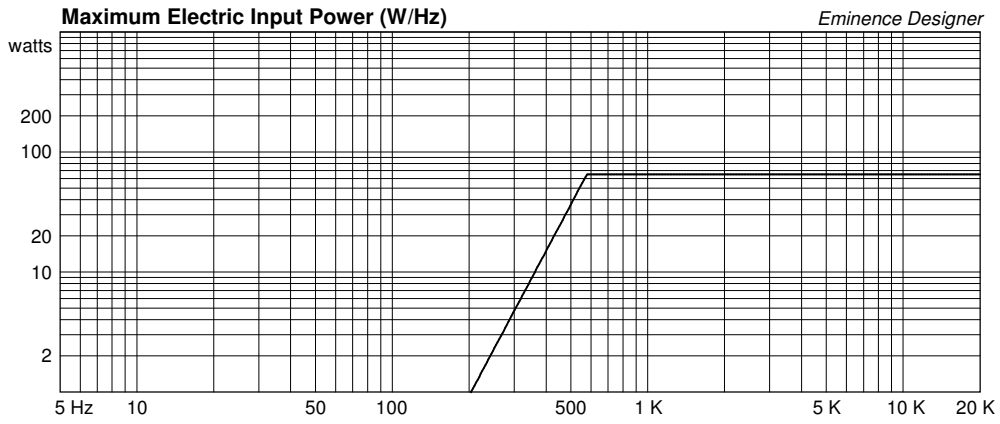
--Electrical Parameters--

Qes = 0.93
Re = 5.45 ohms
Le = 0.18 mH
Z = 8 ohms
BL = 5.84 Tm
Pe = 65 watts

--Electromech. Parameters--

Qts = 0.7
no = 0.974 %
1-W SPL = 92.03 dB
2.83-V SPL = 93.7 dB





PRO-5MRN-8 Max Sealed Mid/Tweet Cab

By Jerry McNutt, Eminence Speaker LLC
Limit to 20 Watts. Use above 330 Hz.
Use a steep high pass filter at 330 Hz or higher.



Box Properties

--Description--

Name:
Type: Closed Box
Shape: Prism, square (optimum)

--Box Parameters--

Vb = 0.0469 cu.ft
V(total) = 0.0544 cu.ft
Qtc = 0.78
QL = 20
F3 = 259.1 Hz
Fill = normal

Driver Properties

--Description--

Name: PRO-5MRN-8
Type: Standard one-way driver
Company: Eminence Speaker USA
Comment: Pro 5" mid/tweet

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 222.7 Hz
Qms = 2.8
Vas = 0.85 liters
Cms = 0.12 mm/N
Mms = 4.18 g
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1-W SPL = 92.03 dB
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