

SPECIFICATION

Nominal Basket Diameter	8", 203.2mm
Nominal Impedance*	4 ohms
Power Rating**	
Watts	20W
Music Program	N/A
Resonance	143.55Hz
Usable Frequency Range***	80Hz-4.6kHz
Sensitivity	96.1
Magnet Weight	15 oz.
Gap Height	0.25", 6.35mm
Voice Coil Diameter	1", 25.4mm

THIELE & SMALL PARAMETERS

Resonant Frequency (fs)	143.55Hz
DC Resistance (Re)	3.64
Coil Inductance (Le)	0.33mH
Mechanical Q (Qms)	18.78
Electromagnetic Q (Qes)	0.92
Total Q (Qts)	0.88
Compliance Equivalent Volume (Vas)	9.62 liters / 0.34 cu.ft.
Peak Diaphragm Displacement Volume (Vd)	36.70cc
Mechanical Compliance of Suspension (Cms)	0.13mm/N
BL Product (BL)	5.74 T-M
Diaphragm Mass inc. Airlod (Mms)	9.25 grams
Efficiency Bandwidth Product (EBP)	155.79
Maximum Linear Excursion (Xmax)	1.59mm
Surface Area of Cone (Sd)	230.90 cm ²
Maximum Mechanical Limit (Xlim)	N/A

MOUNTING INFORMATION

Recommended Enclosure Volume	
Sealed	Acceptable
Vented	Acceptable
Driver Volume Displaced	31.12 cu.in.-0.51 liters
Overall Diameter	8.24", 209.30mm
Baffle Hole Diameter	7.13", 181.10mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	N/A
Mounting Holes Diameter	0.22", 5.58mm
Mounting Holes B.C.D.	7.75", 193.85mm
Depth	3.06", 77.72mm
Net Weight	3.10 lbs., 1.41 kg
Shipping Weight	3.90 lbs., 1.77 kg

MATERIALS OF CONSTRUCTION

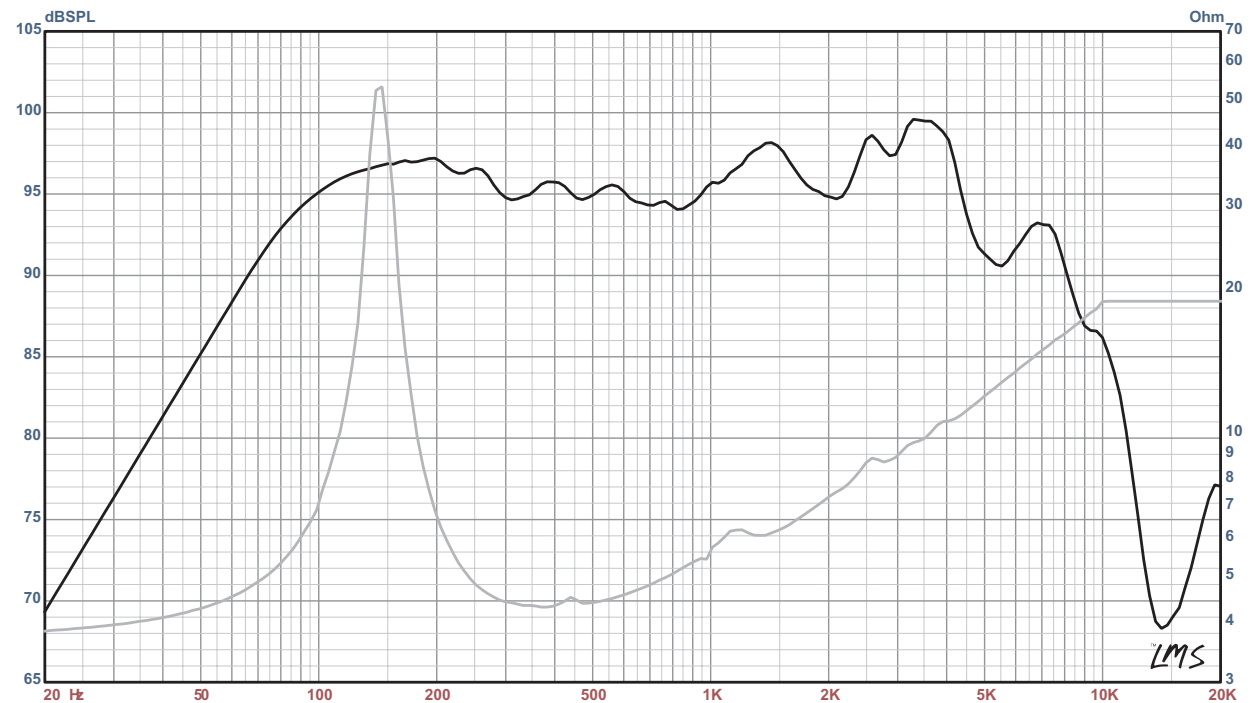
Copper voice coil
 Polyimide former
 Ferrite magnet
 None-vented core
 Pressed steel basket
 Paper cone
 Full paper cone
 Zurette dust cap



EMINENCE[®]
 The Art and Science of Sound

820H PATRIOT SERIES

4 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.



* Please inquire about alternative impedances.

** Multiple units exceed published rating evaluated under EIA 426A noise source and test standard while in a free-air, non-temperature controlled environment.

*** The average output across the usable frequency range when applying 1W/1M into the nominal impedance. ie: 2.83V/8ohms, 4V/16ohms.

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 the speaker mounted flush against a steel ring for minimum diffraction | Hafler P1500 Trans-Nova amplifier | 2700 cu.ft. chamber with fiberglass on all six surfaces (three with custom-made wedges)