EMINENCE®

The Art and Science of Sound

EMINATOR® 2012

Eminator® Car Audio Series

High-Power Subwoofer, 4 ohm Voice Coil

Specification

Nominal Basket Diameter	12 in., 304.8mm
Nominal Impedance*	4 ohms
Power Rating**	
Watts	200 W
Peak	800 W
Resonance	41.85 Hz
Usable Frequency Range***	35 Hz-0.3 kHz
Sensitivity	91.3
Magnet Weight	38 oz
Gap Height	0.32 in., 8 mm
Voice Coil Diameter	2 in., 50.8 mm

Thiele & Small Parameters

Resonant Frequency (fs)	41.85 Hz
DC Resistance (Re)	3.57
Coil Inductance (Le)	1.71 mH
Mechanical Q (Qms)	10.04
Electromagnetic Q (Qes)	0.57
Total Q (Qts)	0.54
Compliance Equivalent Volume (Vas)	65.27 liters/ 2.3 cu.ft.
Peak Diaphragm Displacement Volume (Vd)	263 cc
Mechanical Compliance of Suspension (Cms)	0.17 mm/N
BL Product (BL)	11.83 T-M
Diaphragm Mass inc. Airload (Mms)	84.37 grams
Efficiency Bandwidth Product (EBP)	74.06
Maximum Linear Excursion (Xmax)	5 mm
Surface Area of Cone (Sd)	525.9 cm2
Maximum Mechanical Limit (Xlim)	10 mm

Mounting Information

Recommended Enclosure Volume	
Sealed	28.32-39.64 liters/1-1.4 cu.ft.
Vented	36.25-84.95 liters/1.28-3 cu.ft.
Driver Volume Displaced	2 liters/122 cu.in.
Overall Diameter	312.42 mm/12.3 in.
Baffle Hole Diameter	279.4 mm/11 in.
Front Sealing Gasket	Fitted as standard
Rear Sealing Gasket	N/A
Mounting Holes Diameter	6.35 mm/6.35 in.
Mounting Holes B.C.D.	297.69 mm/11.72 in.
Depth	139.7 mm/5.5 in.
Net Weight	3.63kg/8 lbs.
Shipping Weight	

Materials of Construction

Copper voice coil
Polyimide former
Ferrite magnet
Vented core
Pressed steel basket
Treated Paper Cone
Foam Edge
Treated paper dust cap

* 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)