EMINATOR® 1508

Eminator® Car Audio Series

High SPL Car Audio Mid/Bass Driver

Specification

Nominal Basket Diameter 8 in., 203.2mm
Nominal Impedance* 8 ohms
Power Rating**
- Watts 125 W
- Peak 500 W
Resonance 82.68 Hz
Usable Frequency Range*** 90 Hz-4.4 kHz
Sensitivity 93.4
Magnet Weight 20 oz
Gap Height 0.24 in., 6.1 mm
Voice Coil Diameter 1.5 in., 38.1 mm

Thiele & Small Parameters

Resonant Frequency (fs) 82.68 Hz
DC Resistance (Re) 6.7
Coil Inductance (Le) 0.68 mH
Mechanical Q (Qms) 2.98
Electromagnetic Q (Qes) 0.74
Total Q (Qts) 0.59
Compliance Equivalent Volume (Vas) 14 liters/ 0.49 cu.ft.
Peak Diaphragm Displacement Volume (Vd) 70.7 cc
Mechanical Compliance of Suspension (Cms) 0.22 mm/N
BL Product (BL) 8.95 T-M
Diaphragm Mass inc. Airload (Mms) 17 grams
Efficiency Bandwidth Product (EBP) 111.98
Maximum Linear Excursion (Xmax) 3.3 mm
Surface Area of Cone (Sd) 214.1 cm²
Maximum Mechanical Limit (Xlim) 6.5 mm

Mounting Information

Recommended Enclosure Volume
- Sealed N/A
- Vented 7.65-31.72 liters/0.27-1.12 cu.ft.
Driver Volume Displaced 0.58 liters/35.3 cu.in.
Overall Diameter 209.55 mm/8.25 in.
Baffle Hole Diameter 180.34 mm/7.1 in.
Front Sealing Gasket Fitted as standard
Rear Sealing Gasket N/A
Mounting Holes Diameter 5.59 mm/5.59 in.
Mounting Holes B.C.D. 197.87 mm/7.79 in.
Depth 91.4 mm/3.6 in.
Net Weight 1.81 kg/4 lbs.
Shipping Weight

Materials of Construction

Copper voice coil
Polyimide former
Ferrite magnet
Vented core
Pressed steel basket
Treated Paper Cone
Sealed Cloth cone 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. I.e: 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)