

Specification

Nominal Basket Diameter	12.00", 305 mm
Nominal Impedance	8 ohms ¹
Power Rating	300 W ²
Usable Frequency Range	60 Hz-4k Hz ³
Sensitivity	100.0
Magnet Weight	56 oz.
Gap Height	0.39", 10.01 mm
Voice Coil Diameter	2.50", 63.5 mm

Thiele & Small Parameters

Resonance (fs)	50 Hz
DC Resistance (Re)	5.7
Coil Inductance (Le)	0.62 mH
Mechanical Q (Qms)	7.48
Electromagnetic Q (Qes)	0.41
Total Q (Qts)	0.39
Compliance Equivalent Volume (Vas)	103.64 liters/3.66 cu.ft.
Peak Diaphragm Displacement Volume (Vd)	84.10 cc
Compliance of Suspension (Cms)	0.27 mm/N
BL Product (BL)	12.8 T-M
Moving Mass inc. Airload (Mms)	37.2 grams
Efficiency Bandwidth Product (EBP)	122.1
Maximum Linear Excursion (Xmax)	1.6 mm
Active Piston Area (Sd)	525.9 cm ²
Maximum Mechanical Limit (Xlim)	6.5 mm

Mounting Information

Recommended Enclosure Volume	
Sealed	0.34 - 1.30 cu.ft.
Vented	0.95 - 3.00 cu.ft.
Overall Diameter	12.25", 311.15 mm
Baffle Hole Diameter	11.00", 279.40 mm
Front Gasket	Yes, fitted as standard
Rear Gasket	Yes, fitted as standard
Mounting Holes Diameter	0.25", 6.35 mm
Mounting Holes B.C.D.	11.72", 297.69 mm
Depth	5.00", 127.0 mm
Net Weight	11.40 lbs., 5.17 kg
Packing Carton Dimensions	330 x 330 x 150mm

Materials of Construction

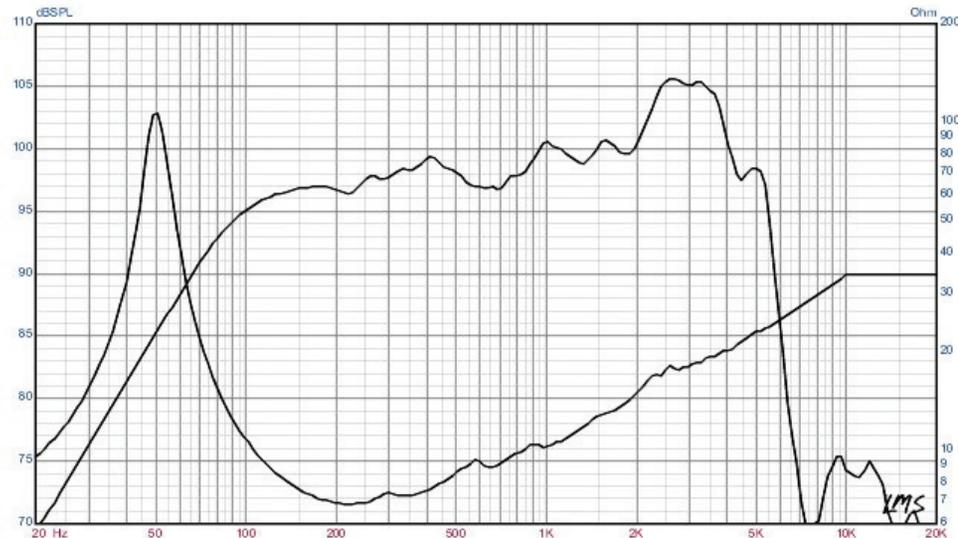
Former Material	Polyimide
Voice Coil	Copper
Magnet Material	Ferrite
Basket Material	Steel
Cone Description	Treated Paper/Sealed Cloth Edge
Dust Cap Material	Treated Paper

Sovereign 12-300

Medium-power driver for use in PA systems or as a MI mid-woofer. Works well as a mid in small sealed boxes or as a mid-woofer in medium-sized vented boxes.



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- 1 Please inquire about alternative impedances.
- 2 Multiple units exceed published rating evaluated under EIA 426A noise source and test standard while in a free-air, nontemperature-controlled environment.
- 3 The average output across the usable frequency range when applying 1 W/1 M into the nominal impedance. I.e: 2.83 V/8 ohms, 4 V/16 ohms. Fane response curves are measured under the following conditions:
 All speakers are tested at 1 W/1 M using a variety of test set-ups for the appropriate impedance | LMS using 0.25" supplied microphone (software calibrated) mounted 1 M 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 | Hafler P1500 Trans-Nova amplifier | 2700 cu.ft. chamber with fiberglass on all six surfaces (three with custom-made wedges)