

## Specification

Nominal Basket Diameter	18.00", 457 mm
Nominal Impedance	8 ohms <sup>1</sup>
Power Rating	500 W <sup>2</sup>
Usable Frequency Range	40 Hz-1.0k Hz <sup>3</sup>
Sensitivity	97.7
Magnet Weight	80 oz.
Gap Height	0.39", 10.01 mm
Voice Coil Diameter	3.00", 76.2 mm

## Thiele & Small Parameters

Resonance (fs)	29 Hz
DC Resistance (Re)	5.7
Coil Inductance (Le)	1.16 mH
Mechanical Q (Qms)	6.43
Electromagnetic Q (Qes)	0.43
Total Q (Qts)	0.40
Compliance Equivalent Volume (Vas)	521.72 liters/18.42 cu.ft.
Peak Diaphragm Displacement Volume (Vd)	538.30 cc
Compliance of Suspension (Cms)	0.27 mm/N
BL Product (BL)	16.6 T-M
Moving Mass inc. Airload (Mms)	114.0 grams
Efficiency Bandwidth Product (EBP)	67.2
Maximum Linear Excursion (Xmax)	4.6 mm
Active Piston Area (Sd)	1178.0 cm <sup>2</sup>
Maximum Mechanical Limit (Xlim)	9.5 mm

## Mounting Information

Recommended Enclosure Volume	
Sealed	3.00 - 5.50 cu.ft.
Vented	4.00 - 8.60 cu.ft.
Overall Diameter	18.00", 457.20 mm
Baffle Hole Diameter	16.60", 421.64 mm
Front Gasket	Yes, fitted as standard
Rear Gasket	Yes, fitted as standard
Mounting Holes Diameter	0.28", 7.11 mm
Mounting Holes B.C.D.	17.25", 438.15 mm
Depth	7.60", 193.04 mm
Net Weight	19.50 lbs., 8.85 kg

## Materials of Construction

Former Material	Polyimide
Voice Coil	Copper
Magnet Material	Ferrite
Basket Material	Aluminum
Cone Description	Paper
Dust Cap Material	Paper

# Sovereign 18-500

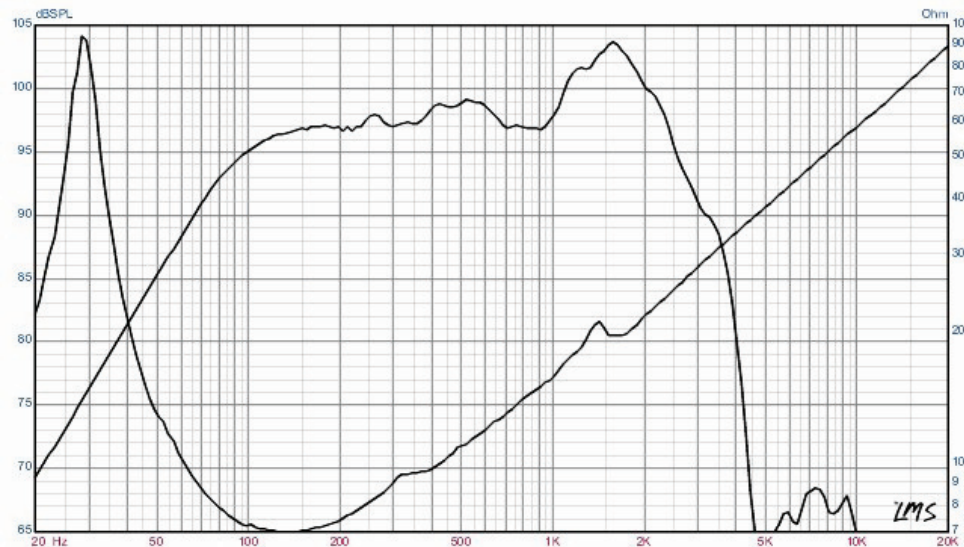
Ported bass enclosures for PA applications and sealed bass guitar cabinets.



# FANE

**FANE INTERNATIONAL LTD.**

Sovereign House  
 Gilcar Way  
 Wakefield Europort  
 Castleford WF10 5QS  
 England  
 TEL +44 (0) 1924 224618  
 FAX +44 (0) 1924 899166  
 info@fane-international.com  
 www.fane-international.com



- 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)