



KEY FEATURES:

97 db 1W / 1m average sensitivity 115 mm (4.5") high temperature sandwich voice coil 3200 W AES program power

Powerful, vented 245 mm magnet structure

Double aluminium demodulating ring for lower distortion and improved heat dissipation

Double silicone spider assembly for improved excursion control and linearity Water protected cone with Kevlar and Glass fibers

Application: Power bass

The 18XB1600 ferrite bass loudspeaker is specially designed to deliver high impact bass response, with exceptional high power capacity. It incorporates an 4.5" sandwich voice coil, double silicone spider assembly, paper cone with Kevlar and Glass fibers and die cast vented aluminium frame. Powerful, vented magnetic structure which reduces power compression with double demodulating rings. The result is high efficient transducer for bass applications, with the ability to handle high excursion with low distortion and reduced thermal power compression.





SPECIFICATIONS

18"/461 inch/mm Nominal Diameter 8 Ohm Impedance Minimum Impedance 6.65 Ohm Power Capacity AES ¹ 1600 W Program Power ² 3200 W Sensitivity 97 dB 30 - 1000 Hz Frequency Range Voice Coil Diameter 115 mm (4.5")

Voice Coil Material Copper
Voice Coil Former Glassfiber
Voice Coil Winding Depth 32 mm
Magnet Gap Depth 14 mm

Cone Material paper with Kevlar and Glass fibers

Basket Die cast aluminium

Magnet Ferrite Flux Density 1.10 T

voice coil depth and Hg is the gap depth.

THIELE-SMALL PARAMETERS

Resonance Frequency	32.5 Hz
Mechanical Efficiency Factor (Qms)	8.74
Electrical Efficiency Factor (Qes)	0.287
Total Q (Qts)	0.278
Equivalent Air Volume (Vas)	267 Litres
Diaphragm mass ind. airload (Mms)	231 grams
Voice Coil Resistance Re	5.3 Ohms
Effective Diagram Area (Sd)	1158 cm^2
Peak Linear Displacement of Diaphragm (Xmax)*	± 12.5 mm
Mechanical Compliance of Suspension (Cms)	0.104 mm/N
BL Product (BL)	29.6 T.m
V.C. Inductance at 1 kHz (Le)	1.46 mH

MOUNTING INFORMATION

1. AES standard. Power is calculated on rated minimum impedance. Measurement is						Overall Diameter	461 mm
in 180 L box enclosure tuned 43 Hz using a 40-400 Hz band limited pink noise test					Baffle Hole Diameter	416 mm	
signal	applied	continuously	for	2	hours.	Number of Mounting Holes	8 eliptic 7 x 8,5 mm
2. Program power is defined as 3db greater than AES Power Capacity.					Bolt Circle Diameter	438/441 mm	
* Linear Mathematical Xmax is calculated as: (Hvc - Hq)/2 + Hq/4 where Hvc is the				Ha/1 whore	Overall Depth	208.5 mm	
Linear mathematical Xillax is calculated as. (NVC = Ng)/2 + Ng/4 where NVC is the			Net Weight	16.8 kg			





Frequency Response









