



KEY FEATURES:

97.5 db 1W / 1m average sensitivity 100 mm high temperature sandwich voice coil 2600 W AES program power Powerful, vented ferrite magnet structure Double aluminium demodulating ring for lower THD and improved heat dissipation Double silicone spider for improved excursion control and linearity Water protected cone (front)

Application : High Power Bass

The **18XB1300** ferrite bass loudspeaker is specially designed to deliver very high impact bass response, with exceptional high power capacity. It incorporates an 4" sandwich voice coil, double silicone spider assembly, carbone paper cone and die cast vented aluminium frame. Powerful, vented ferrite magnetic structure with double demodulating rings which reduced power compression. The result is high efficient transducer for subwoofer applications, with the ability to handle very high excursion with low distortion and reduced thermal power compression.





SPECIFICATIONS

Cone Material Basket

Flux Density

Magnet

THIELE-SMALL PARAMETERS

Nominal Diameter	18"/461 inch/mm	Resonance Frequency	35.16 Hz
Impedance	8 Ohm	Mechanical Efficiency Factor (Qms)	9.56
Minimum Impedance	7.02 Ohm	Electrical Efficiency Factor (Qes)	0.296
Power Capacity AES ¹	1300 W	Total Q (Qts)	0.287
Program Power ²	2600 W	Equivalent Air Volume (Vas)	170.92 Litres
Sensitivity	(50-200 Hz) 97.5 dB/W/m	Diaphragm mass ind. airload (Mms)	206.35 grams
Frequency Range	35 - 1000 Hz	Voice Coil Resistance Re	5.20 Ohms
Voice Coil Diameter	100 mm	Effective Diagram Area (Sd)	1158 cm ²
Voice Coil Material	Copper	Peak Linear Displacement of Diaphragm (Xmax)*	± 11.5 mm
Voice Coil Former	Glassfiber	Mechanical Compliance of Suspension (Cms)	0.0993 mm/N
Voice Coil Winding Depth	31 mm	BL Product (BL)	28.30 T.m
Magnet Gap Depth	14 mm	V.C. Inductance at 1 kHz (Le)	1.92 mH
Cone Material	Carbone paper		

MOUNTING INFORMATION

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 180 L box enclosure tuned 43 Hz using a 40-400 Hz band limited pink noise test signal applied continuously for 2 hours. 2. Program power is defined as 3db greater than AES Power Capacity.

Ferrite

1.00 T

Die cast aluminium

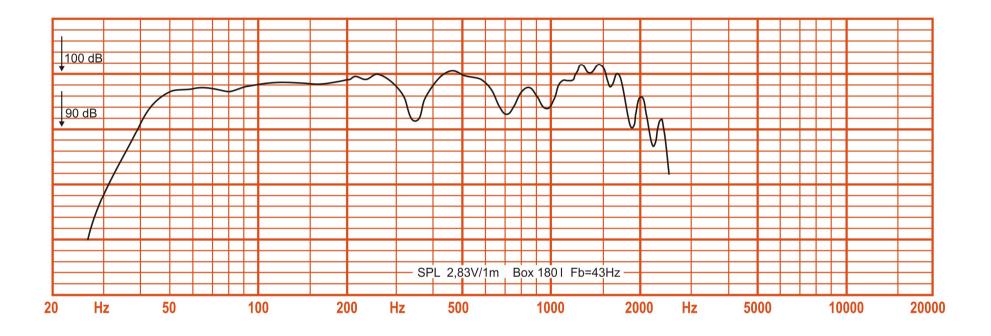
* Linear Mathematical Xmax is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg is the gap depth.

Overall Diameter	
Baffle Hole Diameter	
Number of Mounting Holes	
Bolt Circle Diameter	
Overall Depth	
Net Weight	

461 mm 416 mm 8 eliptic 7 x 8,5 mm 438/441 mm 205 mm 12.9 kg



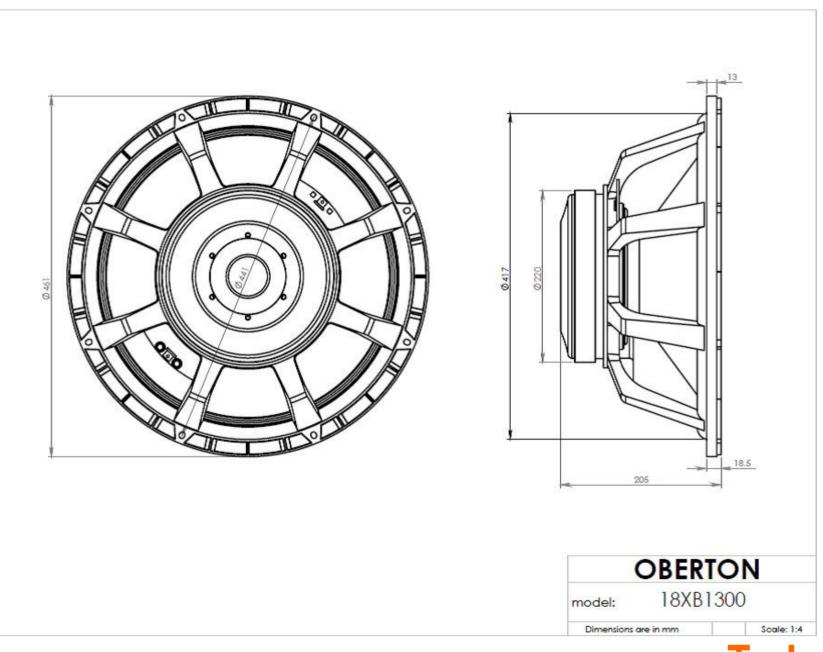




Frequency Response







TOUT LEHAUT PARLEUR.COM