



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
- Triple aluminium demodulating rings for ultra low THD and improved heat dissipation
- Double silicone spider for improved excursion control and linearity
- Water protected cone (front)

Application : High Power Bass

The **18XB1301** is new version of 18XB1300 . It is 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. New powerful, vented ferrite magnetic structure with triple demodulating rings which reduced power compression and dramatically reduce THD. The result is high efficient transducer for subwoofer applications, with the ability to handle very high excursion with ultra low distortion and reduced thermal power compression.

SPECIFICATIONS

Nominal Diameter 18"/461 inch/mm
Impedance 8 Ohm
Minimum Impedance 6,6 Ohm
Power Capacity AES ¹ 1300 W
Program Power ² 2600 W
Sensitivity (50-200 Hz) 97.5 dB/W/m
Frequency Range 35 - 1000 Hz
Voice Coil Diameter 100 mm
Voice Coil Material Copper
Voice Coil Former Glassfiber
V.C. Winding Depth 31 mm
Magnet Gap Depth 14 mm
Cone Material Carbone paper
Basket Die cast aluminium
Magnet Ferrite
Flux Density 1.00 T

THIELE-SMALL PARAMETERS

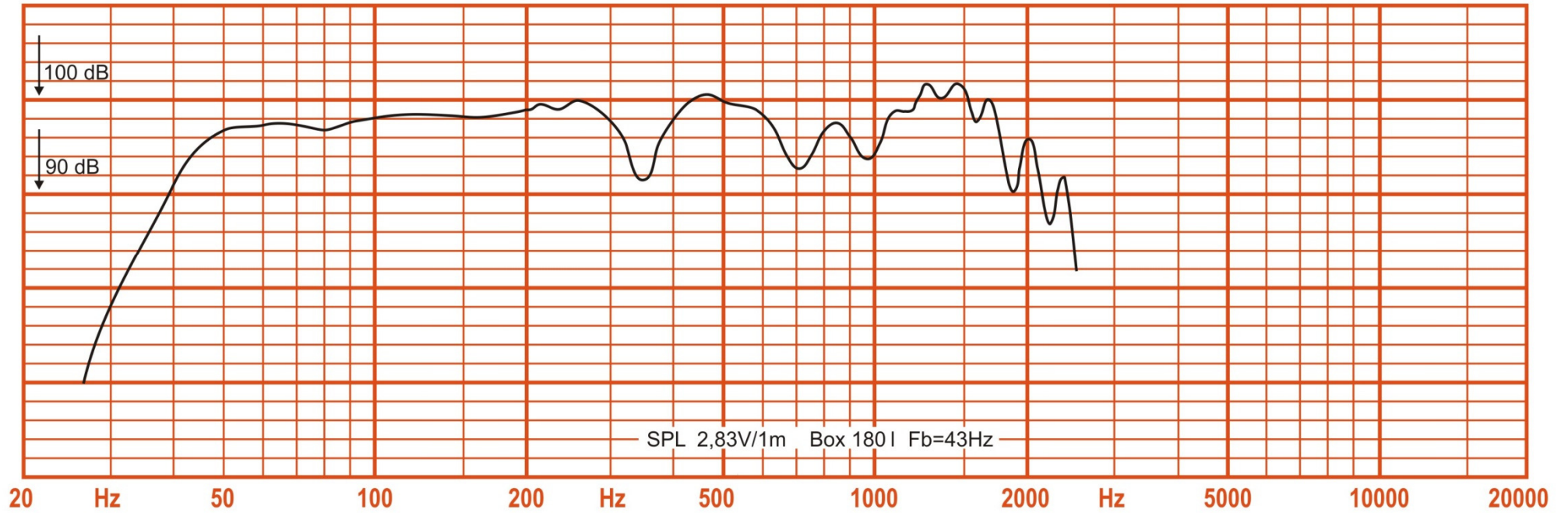
Fs 35.7 Hz
Qms 6.79
Qes 0.316
Qts 0.302
Vas 172.9 Litres
Mms 197.95 grams
Re 5.13 Ohms
Sd 1158 cm²
Xmax* ± 12 mm
Cms 0.1004 mm/N
BL 26.86 T.m
Le at 1kHz 1.419 mH

MOUNTING INFORMATION

Overall Diameter 461 mm
Baffle Hole Diameter 417 mm
Mounting Holes 8 elliptic 7 x 8,5 mm
Bolt Circle Diameter 438/441 mm
Overall Depth 210 mm
Net Weight 15.95 kg

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.

* Linear Mathematical Xmax is calculated as: $(H_{vc} - H_g)/2 + H_g/4$ where H_{vc} is the voice coil depth and H_g is the gap depth.



Frequency Responce