



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)

PART NUMBER: 11118F0308

Application : High Power Bass

The **18XB1301DS** 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 cm ² |
| Xmax* | ± 12 mm |
| Cms | 0.1004 mm/N |
| BL | 26.86 T.m |
| Le at 1kHz | 1.419 mH |

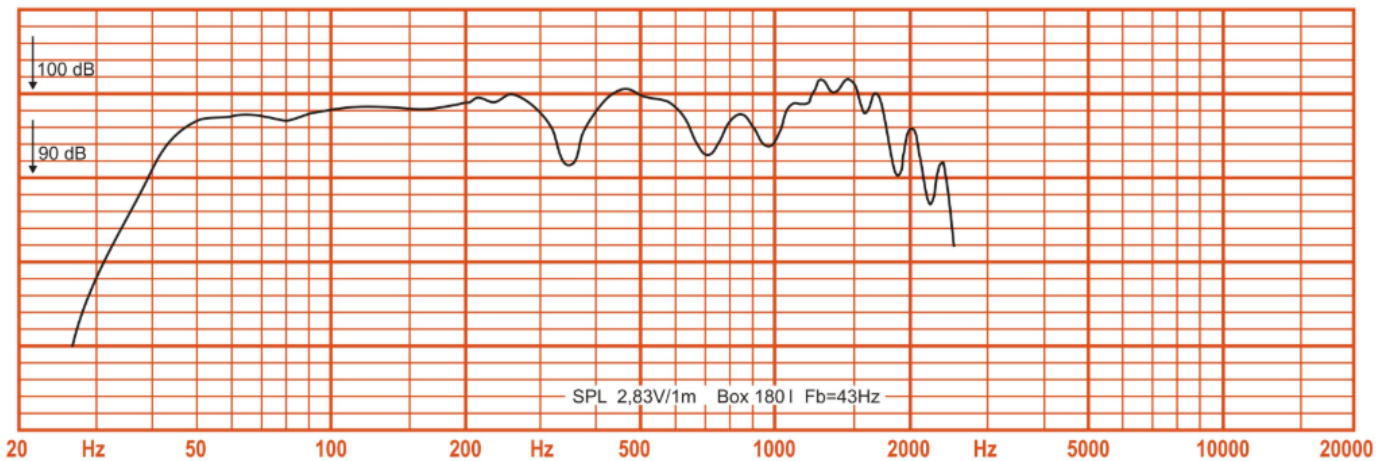
1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 180 L box enclosure tuned 43 Hz using a 40-400 Hz band limited pink noise test signal applied continuously for 2 hours.

2. Program power is defined as 3db greater than AES Power Capacity.

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

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 |



Frequency response