OBERTON
Professional Loudspeakers

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**
- **Epoxy anti-corrosion coating of top and back plates of magnet structure**

PART NUMBER: 11118F1008

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Application : Power bass

The 18XB1600v2 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 top and back plates are treated with special high quality epoxy electro-deposition coating, which extremely improves the corrosion resistance of the speaker. 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

Nominal Diameter 18"/462 inch/mm
Impedance 8 Ohm
Minimum Impedance 6.65 Ohm
Power Capacity AES [1] 1600 W
Program Power [2] 3200 W
Sensitivity 97 dB/W/m
Frequency Range 35 - 1000 Hz
Voice Coil Diameter 115 mm (4.5”)
Voice Coil Material Copper
Voice Coil Former Glassfiber
V. C. 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

THIELE-SMALL PARAMETERS

Fs 32.5 Hz
Qms 8.74
Qes 0.287
Qts 0.278
Vas 267 Litres
Mms 231 grams
Re 5.3 Ohms
Sd 1158 cm2
Xmax* ± 12.5 mm
Cms 0.104 mm/N
BL 29.6 T.m
Le at 1kHz 1.46 mH

MOUNTING INFORMATION

Overall Diameter 462 mm
Baffle Hole Diameter 410 mm
Mounting Holes 8 eliptic 7 x 8.5 mm
Bolt Circle Diameter 441 mm
Overall Depth 207.5 mm
Net Weight 18.2 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: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg is the gap depth.*

RECONE

RK18XB1600v2 - Part No: R1118F1008

KIT:

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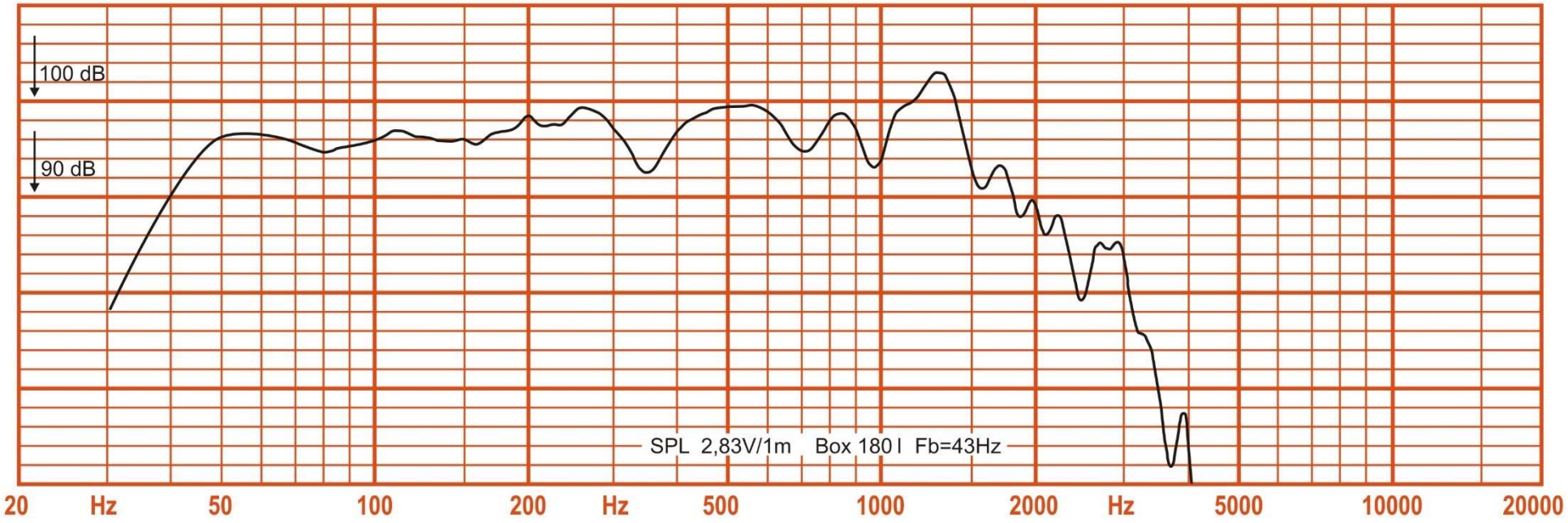
Frequency Responce



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Drawings