OBERTON
Professional Loudspeakers

KEY FEATURES:

- **97 db 1W / 1m average sensitivity**
- **100 mm high temperature sandwich voice coil**
- **2000 W AES program power**
- **Powerful, vented 220 mm magnet structure**
- **Aluminium demodulating ring for lower distortion and improved heat dissipation**
- **Water protected cone (front)**
- **Epoxy anti-corrosion coating of top and back plates of magnet structure**

PART NUMBER: 11115F1808

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Application : High power bass

15XB1000 is a high power long coil 15 inch bass loudspeaker design to reinforce low frequency range at very high sound power levels. It features a 4" sandwich voice coil, vented aluminium frame with integhrated demodulating ring, 220 mm magnet structure and double spider assembly. The top and back plates are treated with special high quality epoxy electro-deposition coating, which extremely improves the corrosion resistance of the speaker. It is suitable for tuned reflex or horn loaded enclosures for high level subwoofer applications.

SPECIFICATIONS

Nominal Diameter 15"/385 inch/mm
Impedance 8 Ohm
Minimum Impedance 7.05 Ohm
Power Capacity AES [1] 1000 W
Program Power [2] 2000 W
Sensitivity (100-200 Hz) 97 dB/W/m
Frequency Range 37 - 2000 Hz
Voice Coil Diameter 100 mm (4")
Voice Coil Material Copper
Voice Coil Former Glassfiber
V. C. Winding Depth 25 mm
Magnet Gap Depth 14 mm
Cone Material Kevlar paper
Basket Die cast aluminium
Magnet Ferrite
Flux Density 0.98 T

THIELE-SMALL PARAMETERS

Fs 37.2 Hz
Qms 9.2
Qes 0.292
Qts 0.283
Vas 111.02 Litres
Mms 158.39 grams
Re 5.19 Ohms
Sd 829.6 cm2
Xmax* ± 9 mm
Cms 0.115 mm/N
BL 25.64 T.m
Le at 1kHz 1.9 mH

MOUNTING INFORMATION

Overall Diameter 389 mm
Baffle Hole Diameter 353 mm
Mounting Holes 8 diam 7 mm
Bolt Circle Diameter 372 mm
Overall Depth 171.4 mm
Net Weight 13.15 kg

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 120 L box enclosure tuned 56 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.*

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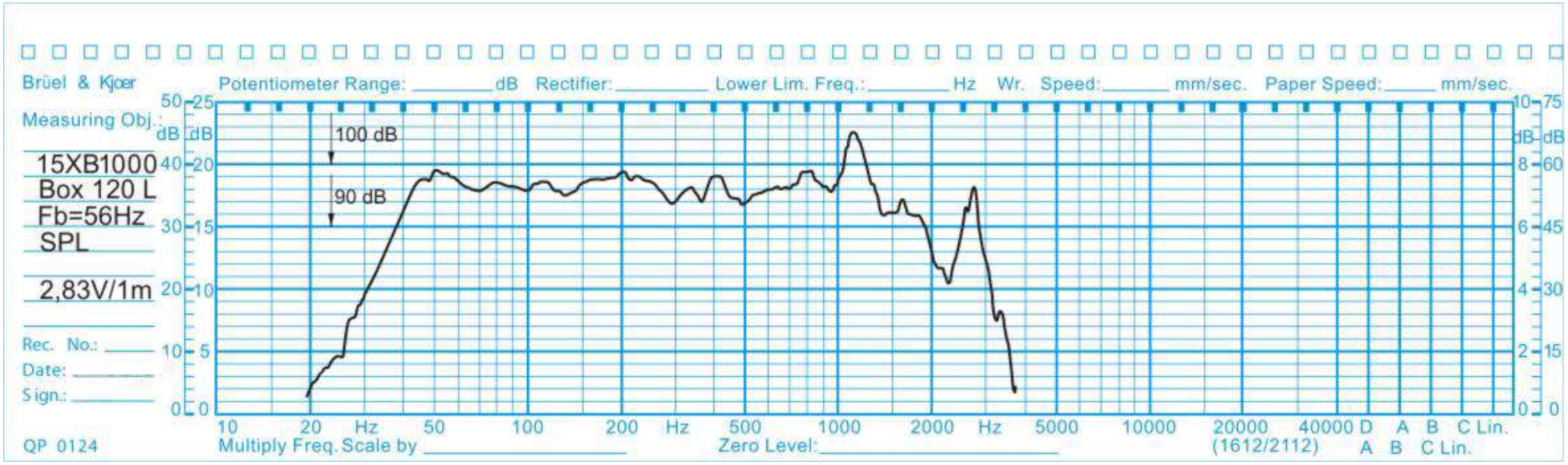
Frequency Responce



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Drawings