



KEY FEATURES:

- 93 db 1W / 1m average sensitivity
- 77 mm high temperature sandwich voice coil
- 1200 W AES program power
- Vented neodymium magnet assembly with massive heatsink
- Double aluminium demodulating rings for lower distortion and improved heat dissipation
- Double silicone spider for improved excursion control and linearity
- Water protected cone (front)

Application : Power bass

The 12NSW600 is neodymium bass loudspeaker designed to deliver high impact bass response, with exceptional high excursion. It features 34 mm high sandwich voice coil, double silicon spider, vented neodymium magnet structure and aluminium die cast frame. The special designed components for low Mms ensure very high definition bass reproduction. The massive heatsink improve the cooling of the magnet structure, which reduce power compression. The double aluminium demodulating rings on the magnet structure reduce distortion and inductance and improve transient response. This results in a high efficient transducer for subwoofer applications, with the ability to handle high excursion with low distortion and reduced thermal power compression. It is suitable for tuned reflex enclosures for high level and high definition subwoofer applications.

SPECIFICATIONS

Nominal Diameter 12"/315 inch/mm
Impedance 8 Ohm
Minimum Impedance 7.7 Ohm
Power Capacity AES ¹ 600 W
Program Power ² 1200 W
Sensitivity (40 -200 Hz) 93 dB/W/m
Frequency Range 35 – 1000 Hz
Voice Coil Diameter 77 mm
Voice Coil Material Copper Clad Aluminium
Voice Coil Former Glass fiber
V. C. Winding Depth 34 mm
Magnet Gap Depth 11 mm
Cone Material Kevlar paper
Basket Die Cast Aluminium
Magnet Neodymium
Flux Density 1.2 T

THIELE-SMALL PARAMETERS

Fs 41.97 Hz
Qms 7.28
Qes 0.331
Qts 0.316
Vas 62.34 Litres
Mms 85.34 grams
Re 6.00 Ohms
Sd 514.7 cm²
Xmax* ± 14.25 mm
Cms 0.168 mm/N
BL 20.20 T.m
Le at 1kHz 0.63 mH

MOUNTING INFORMATION

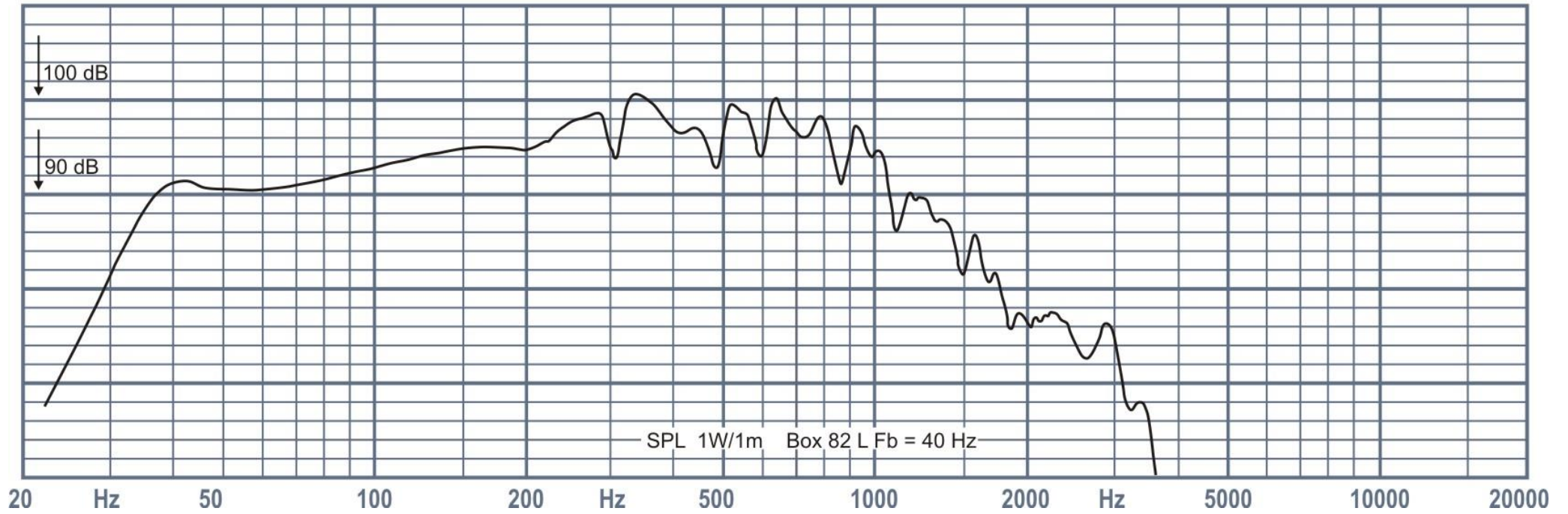
Overall Diameter 315 mm
Baffle Hole Diameter 280 mm
Mounting Holes 8 elliptic 7 x 8 mm
Bolt Circle Diameter 296/298 mm
Overall Depth 185.5 mm
Net Weight 6.65 kg

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 82 L box enclosure tuned 40 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.

SPL 1W/1m OBERTON 12NSW600



SPL 1W/1m Box 82 L Fb = 40 Hz

Frequency Responce

Drawings

