Oberton 10 NM 300



KEY FEATURES:

- 100 db 1W / 1m average sensitivity
- 77 mm high temperature voice coil
- 800 W AES program power
- Vented neodymium magnet assembly with massive heatsink
- Double aluminium demodulating ring for lower distortion and improved heat dissipation

Application: Power midrange speaker

The 10NM300 neodymium loudspeaker is combining high efficiency, wide range and high power handling capability with use of 77 mm aluminium voice coil. It features aluminium die cast frame with vented neodymium magnet structure. The massive heatsink improves the cooling of the magnet structure, which reduce power compression. It is suitable for application as high power midrange or LF driver in 2-way satellite systems.

SPECIFICATIONS

Nominal Diameter 10"/262 inch/mm Impedance 8 Ohm 7.16 Ohm Minimum Impedance Power Capacity AES 1 400 W Program Power 2 800 W Sensitivity

(200-2000 Hz) 100 dB/W/m

100 - 4000Hz Frequency Range Voice Coil Diameter 77 mm Voice Coil Material Aluminium Voice Coil Former Kapton™ Voice Coil Winding Depth 15 mm Magnet Gap Depth 9 mm Cone Material

Basket Die cast aluminium Neodymium Magnet Flux Density 1.45 T

THIELE-SMALL PARAMETERS

Resonance Frequency 71.36 Hz Mechanical Efficiency Factor (Qms) 9.15 0.214 Electrical Efficiency Factor (Qes) Total Q (Qts) 0.209 Equivalent Air Volume (Vas) 20.61 Litres Diaphragm mass ind. airload (Mms) 34.62 grams Voice Coil Resistance Re 5.58 Ohms Effective Diagram Area (Sd) 317.3 cm2 Peak Linear Displacement of Diaphragm (Xmax)* ±5.25 mm Mechanical Compliance of Suspension (Cms) 0.144 mm/N BL Product (BL) 20.12 T.m V.C. Inductance at 1 kHz (Le) 0.62 mH

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 30 L box enclosure tuned 60 Hz using a 50-1000 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 Ha is the gap depth.

MOUNTING INFORMATION

Overall Diameter 262 mm Baffle Hole Diameter 228 mm Number of Mounting Holes 8 with dia. 7 mm Bolt Circle Diameter 244 mm Overall Depth 148.3 mm Net Weight 4.75 kg

Frequency Responce



