

KEY FEATURES

- Good power handling (350 w AES)
- Excellent sensitivity (98 dB)
- 2.5" copper voice coil
- Neodymium magnets
- Extended frequency response (35 - 6000 Hz)
- Designed for the low-mid frequencies reproduction

TECHNICAL SPECIFICATIONS

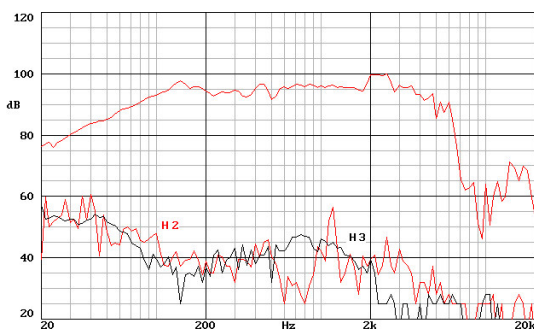
Nominal diameter	300 mm. 12 in.
Rated impedance	8 ohms
Minimum impedance	7 ohms
Power capacity	350 w AES
Program power	700 w
Sensitivity	98 dB 2.83v @ 1m @ 2π
Frequency range	35 - 6000 Hz
Recom. enclosure vol.	30 / 100 l 1.06 / 3.53 ft. ³
Voice coil diameter	62.4 mm. 2.5 in.
Magnetic assembly weight	2.54 kg. 5.59 lb.
BL factor	18.3 N / A
Moving mass	0.061 kg.
Voice coil length	20 mm
Air gap height	10 mm
X damage (peak to peak)	30 mm



THIELE-SMALL PARAMETERS

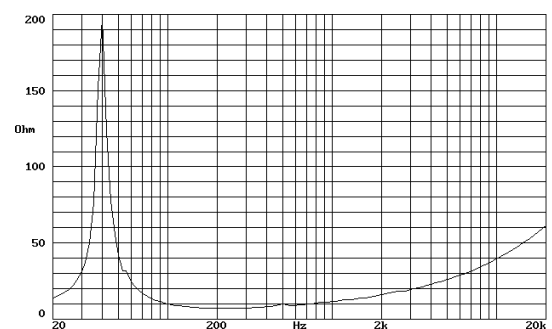
Resonant frequency, f_s	37 Hz
D.C. Voice coil resistance, R_e	5.7 ohms.
Mechanical Quality Factor, Q_{ms}	5.14
Electrical Quality Factor, Q_{es}	0.24
Total Quality Factor, Q_{ts}	0.23
Equivalent Air Volume to C_{ms} , V_{as}	129 l
Mechanical Compliance, C_{ms}	306 $\mu\text{m} / \text{N}$
Mechanical Resistance, R_{ms}	2.74 kg / s
Efficiency, η_0 (%)	2.6
Effective Surface Area, S_d (m ²)	0.0550 m ²
Maximum Displacement, X_{max}	8 mm
Displacement Volume, V_d	440 cm ³
Voice Coil Inductance, L_e @ 1 kHz	1.7 mH

FREQUENCY RESPONSE AND DISTORTION CURVES



Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

FREE AIR IMPEDANCE CURVE



Notes:

*The power capacity is determined according to AES2-1984 (r2003) standard.
Program power is defined as the transducer's ability to handle normal music program material.

**T-S parameters are measured after an exercise period using a preconditioning power test.
The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

***The X_{max} is calculated as $(L_{vc} - Hag)/2 + Hag/3.5$, where L_{vc} is the voice coil length and Hag is the air gap height.