

LOW FREQUENCY TRANSDUCER

KEY FEATURES

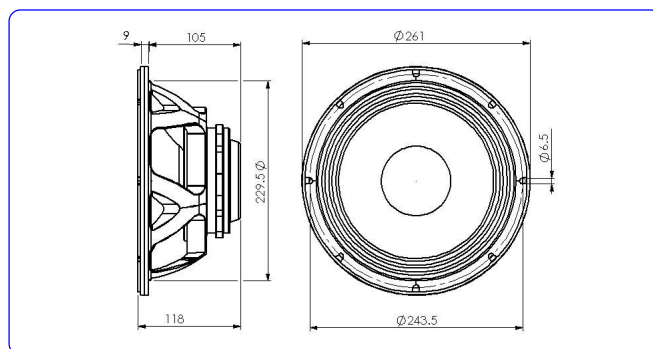
- Good power handling (350 w AES)
- Excellent sensitivity (95 dB)
- Extended frequency response (45 - 5000 Hz)
- Neodymium magnets
- Aluminium basket

TECHNICAL SPECIFICATIONS

Nominal diameter	250 mm. 10 in.
Rated impedance	8 ohms
Minimum impedance	7 ohms
Power capacity*	350 w AES
Program power	700 w
Sensitivity	95 dB 2.83v @ 1m @ 2π
Frequency range	45 - 5000 Hz
Recom. enclosure vol.	20 / 50 l 0.71 / 1.77 ft. ³
Voice coil diameter	62.4 mm. 2.5 in.
Magnetic assembly weight	2.54 kg. 5.59 lb.
BL factor	15.7 N / A
Moving mass	0.043 kg.
Voice coil length	19.5 mm
Air gap height	10 mm
X damage (peak to peak)	30 mm



DIMENSION DRAWINGS



THIELE-SMALL PARAMETERS**

Resonant frequency, fs	49 Hz
D.C. Voice coil resistance, Re	6 ohms.
Mechanical Quality Factor, Qms	9.95
Electrical Quality Factor, Qes	0.33
Total Quality Factor, Qts	0.32
Equivalent Air Volume to Cms, Vas	40.7 l
Mechanical Compliance, Cms	238 μm / N
Mechanical Resistance, Rms	1.35 kg / s
Efficiency, ηo (%)	1.4
Effective Surface Area, Sd (m ²)	0.0350 m ²
Maximum Displacement, Xmax***	7.5 mm
Displacement Volume, Vd	263 cm ³
Voice Coil Inductance, Le @ 1 kHz	1.7 mH

MOUNTING INFORMATION

Overall diameter	261 mm. 10.28 in.
Bolt circle diameter	243.5 mm. 9.59 in.
Baffle cutout diameter:	
- Front mount	230 mm. 9.06 in.
- Rear mount	233 mm. 9.17 in.
Depth	118 mm. 4.65 in.
Volume displaced by driver	2 l 0.07 ft. ³
Net weight	3.1 kg. 6.82 lb.
Shipping weight	3.6 kg. 7.92 lb.

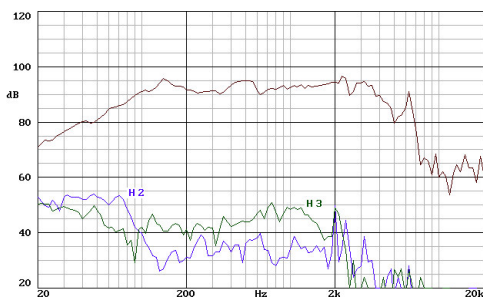
Notes:

*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 Xmax is calculated as (Lvc - Hag)/2 + Hag/3.5, where Lvc is the voice coil length and Hag is the air gap height.

FREQUENCY RESPONSE AND DISTORTION



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

FREE AIR IMPEDANCE CURVE

