

LOW FREQUENCY TRANSDUCER

KEY FEATURES

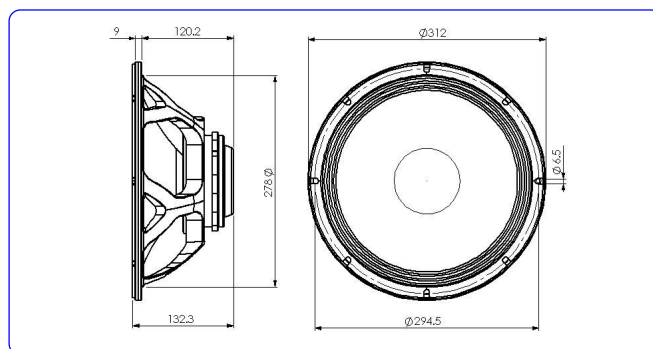
- Good power handling (350 w AES)
- Excellent sensitivity (97 dB)
- Extended frequency response (35 - 5000 Hz)
- Neodymium magnets
- Aluminium basket

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	97 dB 2.83v @ 1m @ 2π
Frequency range	35 - 5000 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	16.9 N / A
Moving mass	0.059 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	43 Hz
D.C. Voice coil resistance, Re	6 ohms.
Mechanical Quality Factor, Qms	9.15
Electrical Quality Factor, Qes	0.34
Total Quality Factor, Qts	0.32
Equivalent Air Volume to Cms, Vas	100 l
Mechanical Compliance, Cms	232 μm / N
Mechanical Resistance, Rms	1.74 kg / s
Efficiency, ηo (%)	2.3
Effective Surface Area, Sd (m ²)	0.0550 m ²
Maximum Displacement, Xmax***	7.5 mm
Displacement Volume, Vd	412 cm ³
Voice Coil Inductance, Le @ 1 kHz	1.7 mH

MOUNTING INFORMATION

Overall diameter	312 mm. 12.28 in.
Bolt circle diameter	294.5 mm. 11.59 in.
Baffle cutout diameter:	
- Front mount	278 mm. 10.94 in.
- Rear mount	285 mm. 11.22 in.
Depth	132.3 mm. 5.21 in.
Volume displaced by driver	3.5 l 0.12 ft. ³
Net weight	3.3 kg. 7.26 lb.
Shipping weight	4 kg. 8.8 lb.

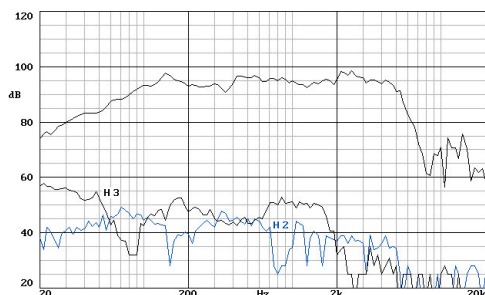
Notes:

*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

