

## KEY FEATURES

- Good power handling (350 w AES)
- Excellent sensitivity (96 dB)
- 2.5" copper voice coil
- Neodymium magnets
- Extended frequency response (45 - 7000 Hz)
- Designed for the low-mid frequencies reproduction

## TECHNICAL SPECIFICATIONS

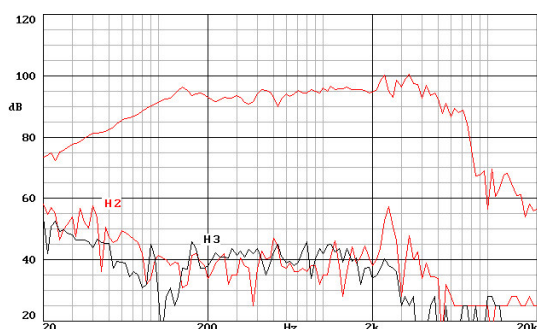
Nominal diameter	250 mm. 10 in.
Rated impedance	8 ohms
Minimum impedance	7 ohms
Power capacity	350 w AES
Program power	700 w
Sensitivity	96 dB 2.83v @ 1m @ 2π
Frequency range	45 - 7000 Hz
Recom. enclosure vol.	20 / 50 l 0.71 / 1.77 ft. <sup>3</sup>
Voice coil diameter	62.4 mm. 2.5 in.
Magnetic assembly weight	2.54 kg. 5.59 lb.
BL factor	16.4 N / A
Moving mass	0.044 kg.
Voice coil length	20 mm
Air gap height	7 mm
X damage (peak to peak)	27 mm



## THIELE-SMALL PARAMETERS

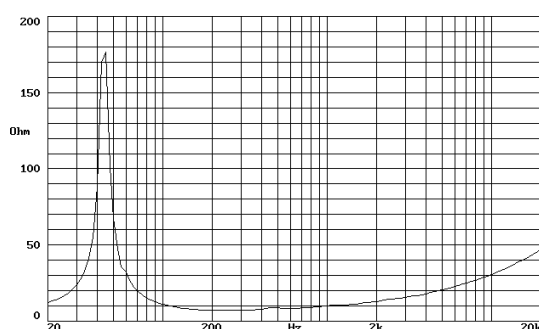
Resonant frequency, $f_s$	47 Hz
D.C. Voice coil resistance, $R_e$	5.5 ohms.
Mechanical Quality Factor, $Q_{ms}$	7.39
Electrical Quality Factor, $Q_{es}$	0.27
Total Quality Factor, $Q_{ts}$	0.26
Equivalent Air Volume to $C_{ms}$ , $V_{as}$	48 l
Mechanical Compliance, $C_{ms}$	273 $\mu$ m / N
Mechanical Resistance, $R_{ms}$	1.72 kg / s
Efficiency, $\eta_o$ (%)	1.8
Effective Surface Area, $S_d$ (m <sup>2</sup> )	0.0355 m <sup>2</sup>
Maximum Displacement, $X_{max}$	8 mm
Displacement Volume, $V_d$	281 cm <sup>3</sup>
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.