

KEY FEATURES

- High power handling: 150/40 w AES (LF/HF)
- High sensitivity: 92,5/102 dB (LF/HF)
- Low resonant frequency: 89 Hz
- Extended controlled displacement: $X_{max} \pm 5\text{ mm}$
- Extended mechanical displacement capability: $X_{damage} \pm 16\text{ mm}$
- Designed with MMSS technology for high control, symmetry and linearity
- Demodulating ring for low harmonic distortion
- CONEX spider for higher resistance and consistency
- Waterproof Paper Cone with Santoprene™ surround
- Common Neodymium magnetic system for low weight and mounting depth
- Excellent off-axis response
- 70° conical dispersion

TECHNICAL SPECIFICATIONS

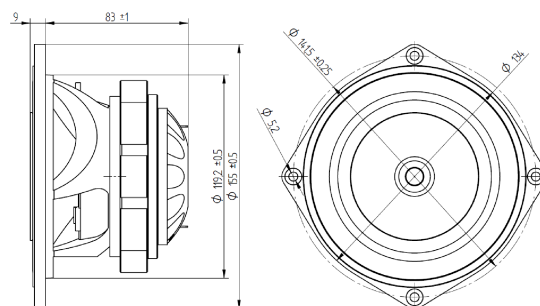
Nominal diameter	125 mm. 5 in.
Rated impedance	8 ohms
Minimum impedance	6.2ohms
Power capacity*(LF/HF)	150 / 40 w AES
Program power(LF/HF)	300 / 80 w
Sensitivity (LF/HF)	92.5 dB / 102 dB 1W @ 1m @ 2π
Frequency range	60 - 20000 Hz
Recom. enclosure vol.	10 / 20 l 0.35 / 0.7 ft. ³
Voice coil diameter	38.5 mm. 1.5 in.
Magnetic assembly weight	1.2kg. 2.64 lb.
BL factor	8.5 N / A
Moving mass	0.008 kg.
Voice coil length	12 mm
Air gap height	6 mm
X damage (peak to peak)	16 mm

THIELE-SMALL PARAMETERS**

Resonant frequency, fs	89 Hz
D.C. Voice coil resistance, Re	5 ohms
Mechanical Quality Factor, Qms	7.95
Electrical Quality Factor, Qes	0.33
Total Quality Factor, Qts	0.31
Equivalent Air Volume to Cms, Vas	5.11 l
Mechanical Compliance, Cms	405 μm / N
Mechanical Resistance, Rms	0.54 kg / s
Efficiency, ηo (%)	1.06
Effective Surface Area, Sd (m²)	0.0095 m²
Maximum Displacement, Xmax***	5 mm
Displacement Volume, Vd	48.1 cm³
Voice Coil Inductance, Le @ 1 kHz	0.09 mH



DIMENSION DRAWINGS



MOUNTING INFORMATION

Overall diameter	155 mm.	6.10 in.
Bolt circle diameter	141.5 mm.	5.57 in.
Baffle cutout diameter:		
- Front mount	120 mm.	4.72 in.
- Rear mount	120 mm.	4.72 in.
Overall Depth	94mm.	3.7 in.
Mounting Depth	84mm.	3.3 in.
Volume displaced by driver	0.5 l.	0.02 ft. ³
Net weight	1.85kg.	4.07 lb.
Shipping weight	2.5 kg.	5.5 lb.

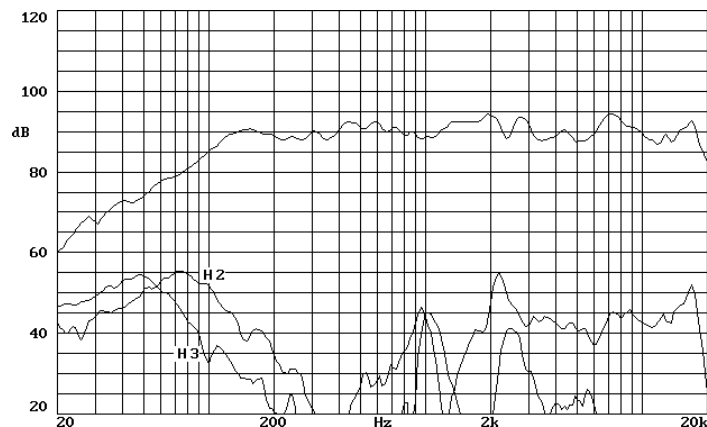
Notes:

*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 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).

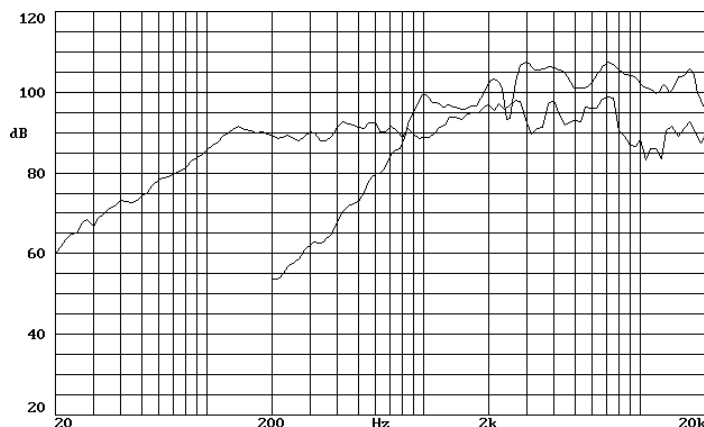
***The Xmax is calculated as $(L_{vc} - H_{ag})/2 + H_{ag}/3.5$, where L_{vc} is the voice coil length and H_{ag} is the air gap height.

FREQUENCY RESPONSE AND DISTORTION



Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m. Crossover frequency set at 2.8kHz@12dB/oct.

LF/HF DRIVER RESPONSE



OFF-AXIS FREQUENCY RESPONSE

