

### KEY FEATURES

- 200 W AES power handling
- High sensitivity
- Low Resonant frequency: 65 Hz
- Low harmonic distortion in all the usable frequency range
- Extended controlled displacement:  $X_{max} \pm 5.5$  mm
- Extended mechanical displacement capability:  $X_{pp}$  20 mm
- CONEX spider and waterproof materials
- Designed with *MMSS technology*
- Forced air convection circuit for low power compression
- Ferrite magnet system
- Optimal for small/compact designs

### TECHNICAL SPECIFICATIONS

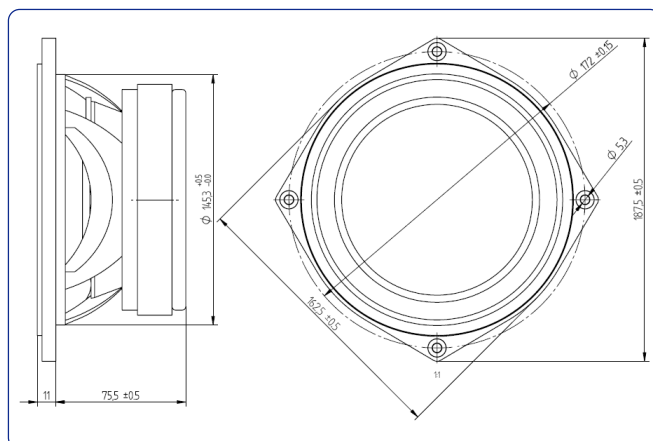
Nominal diameter	165 mm.	6.5 in.
Rated impedance		8 ohms
Minimum impedance		5.9 ohms
Power capacity*		200 w AES
Program power		400 w
Sensitivity	92.7 dB	2.83v @ 1m @ 2 $\pi$
Frequency range		60 - 9000 Hz
Recom. enclosure vol.	6 / 20 l	0.21 / 0.71 ft. <sup>3</sup>
Voice coil diameter		51.7 mm. 2 in.
Magnetic assembly weight		2 kg. 4.4 lb.
BL factor		10.1 N/A
Moving mass		0.017 kg.
Voice coil length		14 mm.
Air gap height		9 mm.
X damage (peak to peak)		20 mm.

### THIELE-SMALL PARAMETERS\*\*

Resonant frequency, fs	65 Hz
D.C. Voice coil resistance, Re	5 ohms
Mechanical Quality Factor, Qms	3.58
Electrical Quality Factor, Qes	0.34
Total Quality Factor, Qts	0.31
Equivalent Air Volume to Cms, Vas	9.13 l
Mechanical Compliance, Cms	352 $\mu$ m / N
Mechanical Resistance, Rms	1.94 kg / s
Efficiency, $\eta_0$ (%)	0.71
Effective Surface Area, Sd (m <sup>2</sup> )	0.0135 m <sup>2</sup>
Maximum Displacement, Xmax***	5.5 mm
Displacement Volume, Vd	74.25 cm <sup>3</sup>
Voice Coil Inductance, Le @ 1 kHz	0.6 mH



### DIMENSION DRAWINGS



### MOUNTING INFORMATION

Overall diameter	187.5 mm.	7.38 in.
Bolt circle diameter	172 mm.	6.77 in.
Baffle cutout diameter:		
- Front mount	145.3 mm.	5.70 in.
- Rear mount	187.5 mm.	7.38 in.
Depth	86.5 mm.	3.4 in.
Volume displaced by driver	0.6 l.	0.02 ft. <sup>3</sup>
Net weight	3.1 kg.	6.83 lb.
Shipping weight	3.5 kg.	7.77 lb.

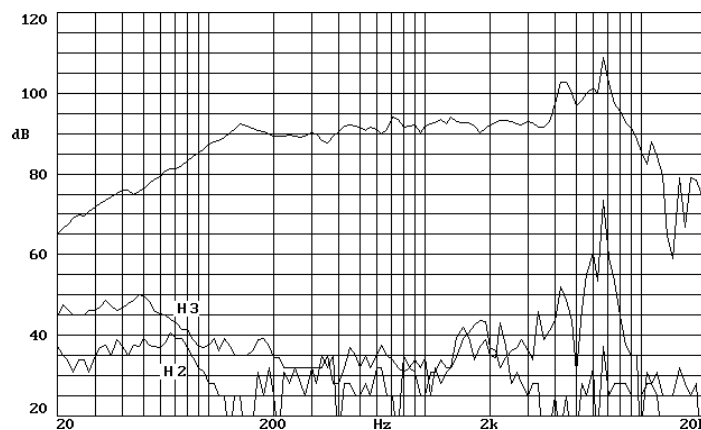
#### Notes:

\*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  $(L_{vc} - Hag)/2 + Hag/3.5$ , 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

