

KEY FEATURES



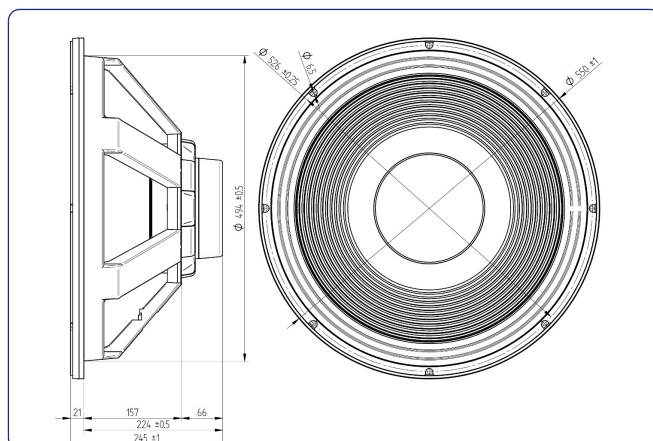
- HELICEX® cooling technology
- 1600W AES power handling capacity
- High sensitivity: 98dB @ 2.83v
- Low resonant frequency: 33Hz
- Extended controlled displacement: $X_{max} \pm 15$ mm
- Massive mechanical displacement capability: X_{pp} 60mm
- Exclusive NCR membrane (Neck Coupling Reinforcement)
- Designed with MMSS technology
- 5" DUO double inner/outer voice coil winding
- CONEX Spider with Die Cast Aluminum Ring



TECHNICAL SPECIFICATIONS

Nominal diameter	540mm. 21 in.
Rated impedance	8 ohms
Minimum impedance	6.5 ohms
Power capacity*	1600 w AES
Program power	3200 w
Sensitivity	98 dB 2.83v @ 1m @ 2 π
Frequency range	25 - 1200 Hz
Maximum Recom. Frequency	200 Hz
Recom. enclosure vol.	100/ 250 l 3.5 / 8.75 ft. ³
Voice coil diameter	126 mm. 5 in.
Magnetic assembly weight	7.59 kg. 16.7 lb.
BL factor	32 N / A
Moving mass	0.370 kg.
Voice coil length	35 mm
Air gap height	14 mm
X damage (peak to peak)	60 mm

DIMENSION DRAWINGS



THIELE-SMALL PARAMETERS**

Resonant frequency, f_s	33 Hz
D.C. Voice coil resistance, R_e	5.3 ohms
Mechanical Quality Factor, Q_{ms}	8.37
Electrical Quality Factor, Q_{es}	0.40
Total Quality Factor, Q_{ts}	0.38
Equivalent Air Volume to C_{ms} , V_{as}	268 l
Mechanical Compliance, C_{ms}	62.8 μ m / N
Mechanical Resistance, R_{ms}	9.18 kg / s
Efficiency, η_o (%)	2.31
Effective Surface Area, S_d (m ²)	0.1734 m ²
Maximum Displacement, X_{max}^{***}	15 mm
Displacement Volume, V_d	2514 cm ³
Voice Coil Inductance, L_e @ 1 kHz	3.7 mH

MOUNTING INFORMATION

Overall diameter	550 mm.	21.65 in.
Bolt circle diameter	526 mm.	20.71 in.
Baffle cutout diameter:		
- Front mount	494 mm.	19.45 in.
- Rear mount	511 mm.	20.12 in.
Depth	245 mm.	9.64 in.
Volume displaced by driver	20 l.	0.7 ft. ³
Net weight	14.9 kg.	32.85lb.
Shipping weight	19.1 kg.	42.02 lb.

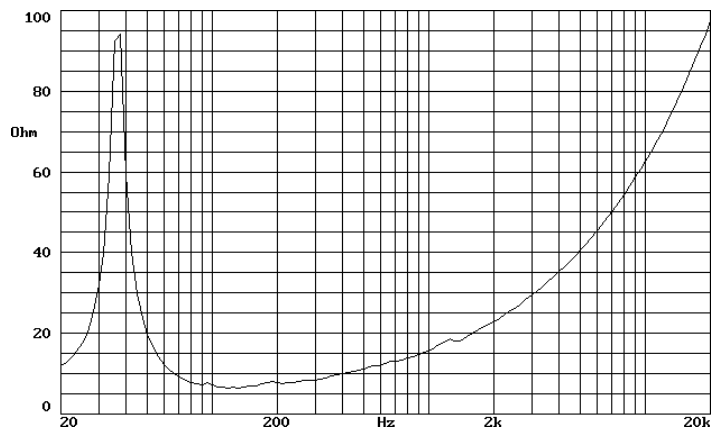
Notes:

*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.

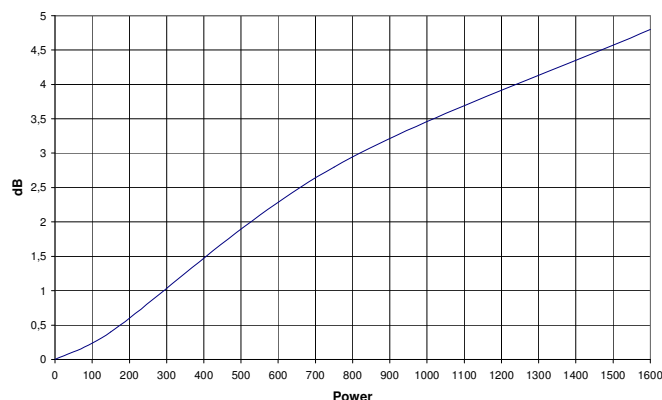
**T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

***The 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.

FREE AIR IMPEDANCE CURVE

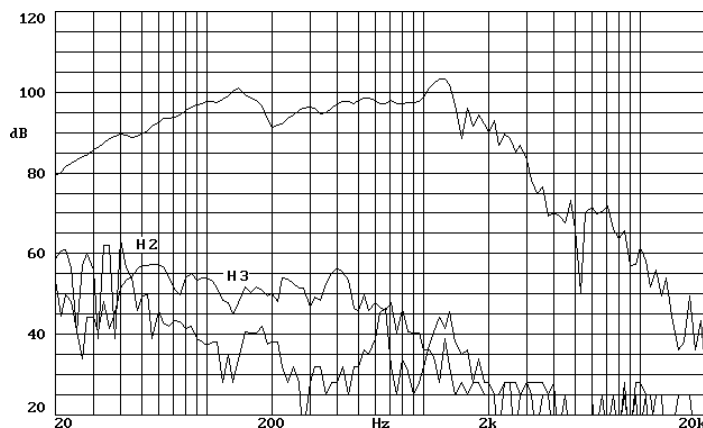


POWER COMPRESSION LOSSES



Note: Power Compression Losses were calculated after 5 minutes period applying a pink noise signal filtered between 25 and 200 Hz.

FREQUENCY RESPONSE AND DISTORTION



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