

KEY FEATURES

- High power handling: 700 W_{AES}
- High sensitivity: 96 dB (1W / 1m)
- FEA optimized magnetic circuit
- CONEX spider for higher resistance and consistency
- Waterproof cone with treatment for both sides of the cone
- 4" DUO double layer in/out voice coil
- Extended controlled displacement: X_{max} ± 9 mm
- 47 mm peak-to-peak excursion before damage



TECHNICAL SPECIFICATIONS

Nominal diameter	300 mm	12 in
Rated impedance		8 Ω
Minimum impedance		7,1 Ω
Power capacity ¹		700 W _{AES}
Program power ²		1.400 W
Sensitivity	96 dB	1W / 1m @ Z _N
Frequency range		35 - 2.000 Hz
Recom. enclosure (Bass-reflex design)		V _b = 40 l F _b = 50 Hz
Voice coil diameter	101,6 mm	4 in
BI factor		20 N/A
Moving mass		0,102 kg
Voice coil length		20 mm
Air gap height		10 mm
X _{damage} (peak to peak)		47 mm

THIELE-SMALL PARAMETERS³

Resonant frequency, f _s	49 Hz
D.C. Voice coil resistance, R _e	5,1 Ω
Mechanical Quality Factor, Q _{ms}	15,3
Electrical Quality Factor, Q _{es}	0,40
Total Quality Factor, Q _{ts}	0,38
Equivalent Air Volume to C _{ms} , V _{as}	43 l
Mechanical Compliance, C _{ms}	99 μm / N
Mechanical Resistance, R _{ms}	2,1 kg / s
Efficiency, η ₀	1,2 %
Effective Surface Area, S _d	0,055 m ²
Maximum Displacement, X _{max} ⁴	9 mm
Displacement Volume, V _d	500 cm ³
Voice Coil Inductance, L _e @ 1 kHz	2,1 mH

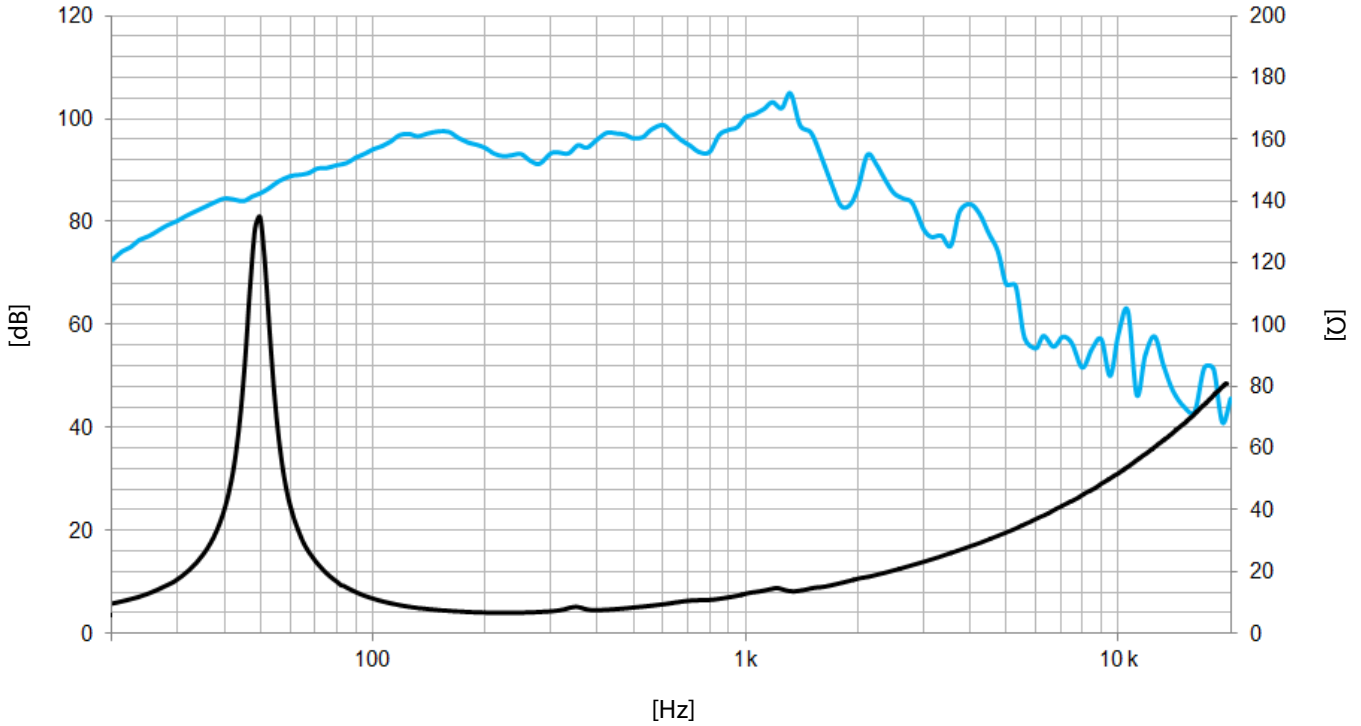
Notes:

¹ The power capacity is determined according to AES2-1984 (r2003) standard.

² Program power is defined as power capacity + 3 dB.

³ 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).

⁴ The X_{max} 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.



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

MOUNTING INFORMATION

Overall diameter	312 mm	12,3 in
Bolt circle diameter	298 mm	11,7 in
Baffle cutout diameter:		
- Front mount	283 mm	11,1 in
Depth	123 mm	4,9 in
Net weight	9,7 kg	21,4 lb
Shipping weight	10,4 kg	22,9 lb

DIMENSION DRAWING

