

KEY FEATURES



- High power handling: 1.400 W program power
- Exclusive Malt Cross® Technology Cooling System
- Low power compression losses
- High sensitivity: 99 dB (1W / 1m)
- FEA optimized neodymium magnetic circuit
- Optimized non-linear behaviour
- 3" DUO double layer in/out copper voice coil
- Aluminium demodulating ring
- Weatherproof cone with treatment for both sides
- Extended controlled displacement: $X_{\max} \pm 7$ mm
- 48 mm peak-to-peak excursion before damage
- Weight 3,7 kg
- Optimized for bass or mid-bass high performance audio systems



TECHNICAL SPECIFICATIONS

Nominal diameter	300 mm	12 in
Rated impedance		8 Ω
Minimum impedance		7 Ω
Power capacity ¹		700 W _{AES}
Program power ²		1.400 W
Sensitivity	99 dB	1W / 1m @ Z _N
Frequency range		60 - 4.000 Hz
Recom. enclosure		V _b = 40 l
(Bass-reflex design)		F _b = 67 Hz
Voice coil diameter	76,2 mm	3 in
BI factor		21,6 N/A
Moving mass		0,072 kg
Voice coil length		18 mm
Air gap height		10 mm
X _{damage} (peak to peak)		48 mm

Notes:

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

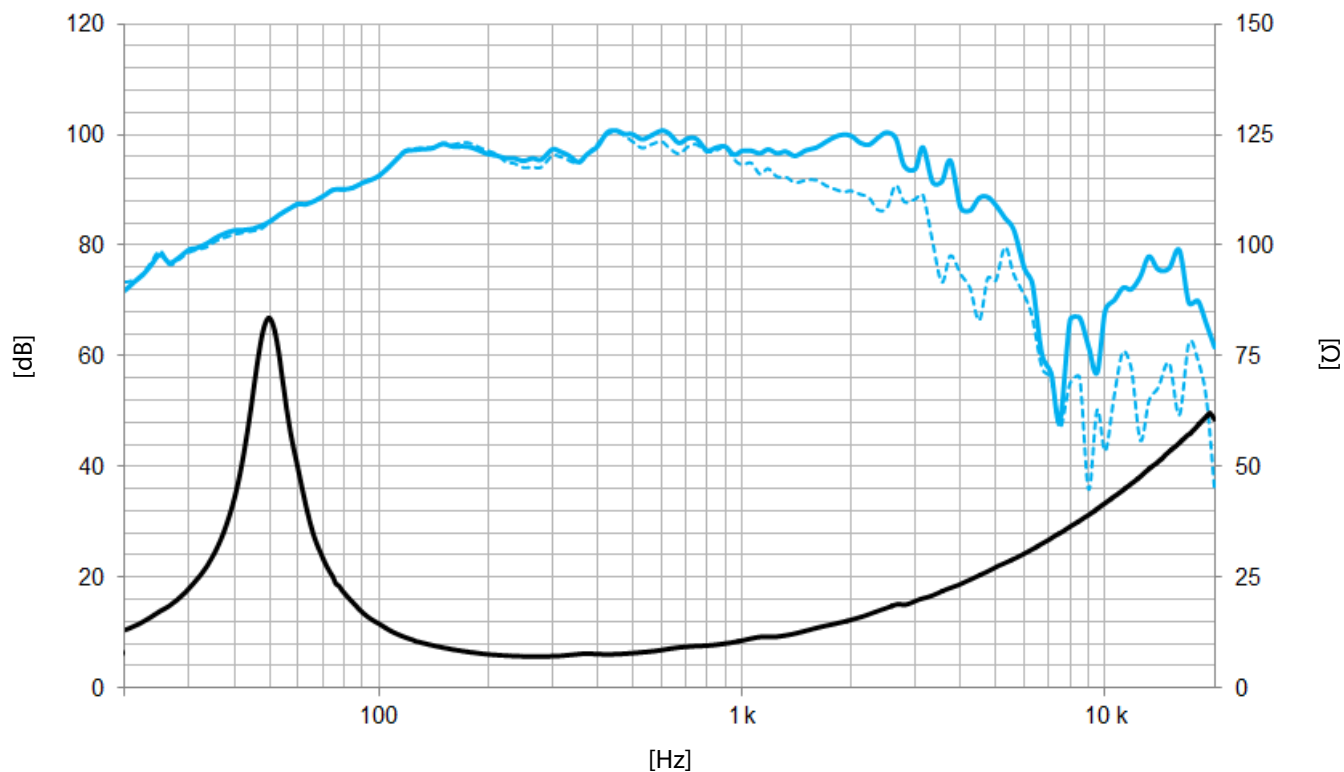
² Program power is defined as power capacity + 3 dB.

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.

THIELE-SMALL PARAMETERS³

Resonant frequency, f _s	51 Hz
D.C. Voice coil resistance, R _e	5,2 Ω
Mechanical Quality Factor, Q _{ms}	4,1
Electrical Quality Factor, Q _{es}	0,26
Total Quality Factor, Q _{ts}	0,24
Equivalent Air Volume to C _{ms} , V _{as}	58 l
Mechanical Compliance, C _{ms}	136 μ m / N
Mechanical Resistance, R _{ms}	5,6 kg / s
Efficiency, η_0	2,8 %
Effective Surface Area, S _d	0,055 m ²
Maximum Displacement, X _{max} ⁴	7 mm
Displacement Volume, V _d	375 cm ³
Voice Coil Inductance, L _e @ 1 kHz	1 mH



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

— Frequency response on axis
- - - Frequency response 45° off axis

MOUNTING INFORMATION

Overall diameter	312 mm	12,3 in
Bolt circle diameter	294,5 mm	11,6 in
Baffle cutout diameter:		
- Front mount	278 mm	10,9 in
Depth	143 mm	5,6 in
Net weight	3,7 kg	8,2 lb
Shipping weight	4,4 kg	9,7 lb

DIMENSION DRAWING

