

### KEY FEATURES

- High power handling: 800 W program power
- 3" copper wire voice coil
- High sensitivity: 97 dB (1W / 1m)
- FEA optimized magnetic circuit
- Designed with MMSS technology for high control, linearity and low harmonic distortion
- Waterproof cone treatment on both sides of the cone
- Extended controlled displacement:  $X_{\max} \pm 6,3$  mm
- $X_{\text{damage}} \pm 30$  mm
- Weight 5,5 kg
- Low harmonic distortion and linear response
- Wide range of applications of low and mid-low frequencies

### TECHNICAL SPECIFICATIONS

Nominal diameter	300 mm	12 in
Rated impedance		8 $\Omega$
Minimum impedance		6,4 $\Omega$
Power capacity*	400 W <sub>AES</sub>	
Program power		800 W
Sensitivity	97 dB @ 1W @ 1m @ Z <sub>N</sub>	
Frequency range		50 - 5.000 Hz
Voice coil diameter	77 mm	3 in
BI factor		19 N/A
Moving mass		0,068 kg
Voice coil length		16 mm
Air gap height		8 mm
X <sub>damage</sub> (peak to peak)		30 mm

### THIELE-SMALL PARAMETERS\*\*

Resonant frequency, $f_s$	49 Hz
D.C. Voice coil resistance, $R_e$	5,7 $\Omega$
Mechanical Quality Factor, $Q_{ms}$	6,5
Electrical Quality Factor, $Q_{es}$	0,34
Total Quality Factor, $Q_{ts}$	0,32
Equivalent Air Volume to $C_{ms}$ , $V_{as}$	60,5 l
Mechanical Compliance, $C_{ms}$	152 $\mu\text{m} / \text{N}$
Mechanical Resistance, $R_{ms}$	3,25 kg / s
Efficiency, $\eta_0$	2 %
Effective Surface Area, $S_d$	0,053 m <sup>2</sup>
Maximum Displacement, $X_{\max}$ ***	6,3 mm
Displacement Volume, $V_d$	334 cm <sup>3</sup>
Voice Coil Inductance, $L_e$ @ 1 kHz	1 mH

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).

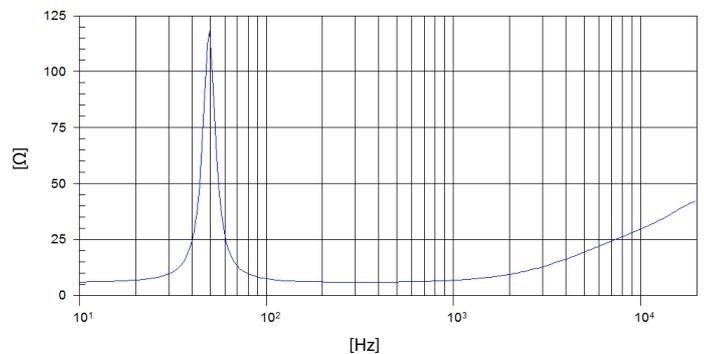
\*\*\* The  $X_{\max}$  is calculated as  $(L_{vc} - H_{ag})/2 + (H_{ag}/3,5)$ , where  $L_{vc}$  is the voice coil length and  $H_{ag}$  is the air gap height.



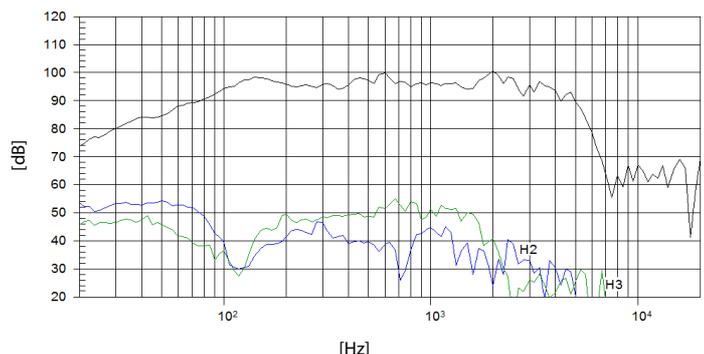
### MOUNTING INFORMATION

Overall diameter	312 mm	12,28 in
Bolt circle diameter	294,5 mm	11,59 in
Baffle cutout diameter:		
- Front mount	278 mm	10,94 in
Depth	130 mm	5,12 in
Net weight	5,5 kg	12,12 lb
Shipping weight	6 kg	13,23 lb

### FREE AIR IMPEDANCE CURVE



### FREQUENCY RESPONSE & DISTORTION



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