

### KEY FEATURES

- High power handling 500 W<sub>AES</sub>
- High sensitivity: 97 dB (1W / 1m)
- 3" copper voice coil with polyimide fiber glass former
- Extended controlled displacement:  $X_{max} \pm 7$  mm
- 28 mm peak-to-peak excursion before damage
- Designed for woofer applications



### TECHNICAL SPECIFICATIONS

Nominal diameter	300 mm	12 in
Rated impedance		8 $\Omega$
Minimum impedance		6,7 $\Omega$
Power capacity <sup>1</sup>		500 W <sub>AES</sub>
Program power <sup>2</sup>		1.000 W
Sensitivity	97 dB	1W / 1m @ Z <sub>N</sub>
Frequency range		45 - 4.000 Hz
Recom. enclosure vol.	20 / 70 l	0,7 / 2,6 ft <sup>3</sup>
Voice coil diameter	76,2 mm	3 in
BI factor		18,4 N/A
Moving mass		0,062 kg
Voice coil length		17,5 mm
Air gap height		8 mm
X <sub>damage</sub> (peak to peak)		28 mm

### THIELE-SMALL PARAMETERS<sup>3</sup>

Resonant frequency, f <sub>s</sub>	44 Hz
D.C. Voice coil resistance, R <sub>e</sub>	6 $\Omega$
Mechanical Quality Factor, Q <sub>ms</sub>	11,6
Electrical Quality Factor, Q <sub>es</sub>	0,30
Total Quality Factor, Q <sub>ts</sub>	0,30
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	81 l
Mechanical Compliance, C <sub>ms</sub>	206 $\mu$ m / N
Mechanical Resistance, R <sub>ms</sub>	1,5 kg / s
Efficiency, $\eta_0$	2,3 %
Effective Surface Area, S <sub>d</sub>	0,053 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> <sup>4</sup>	7 mm
Displacement Volume, V <sub>d</sub>	371 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub>	2,1 mH

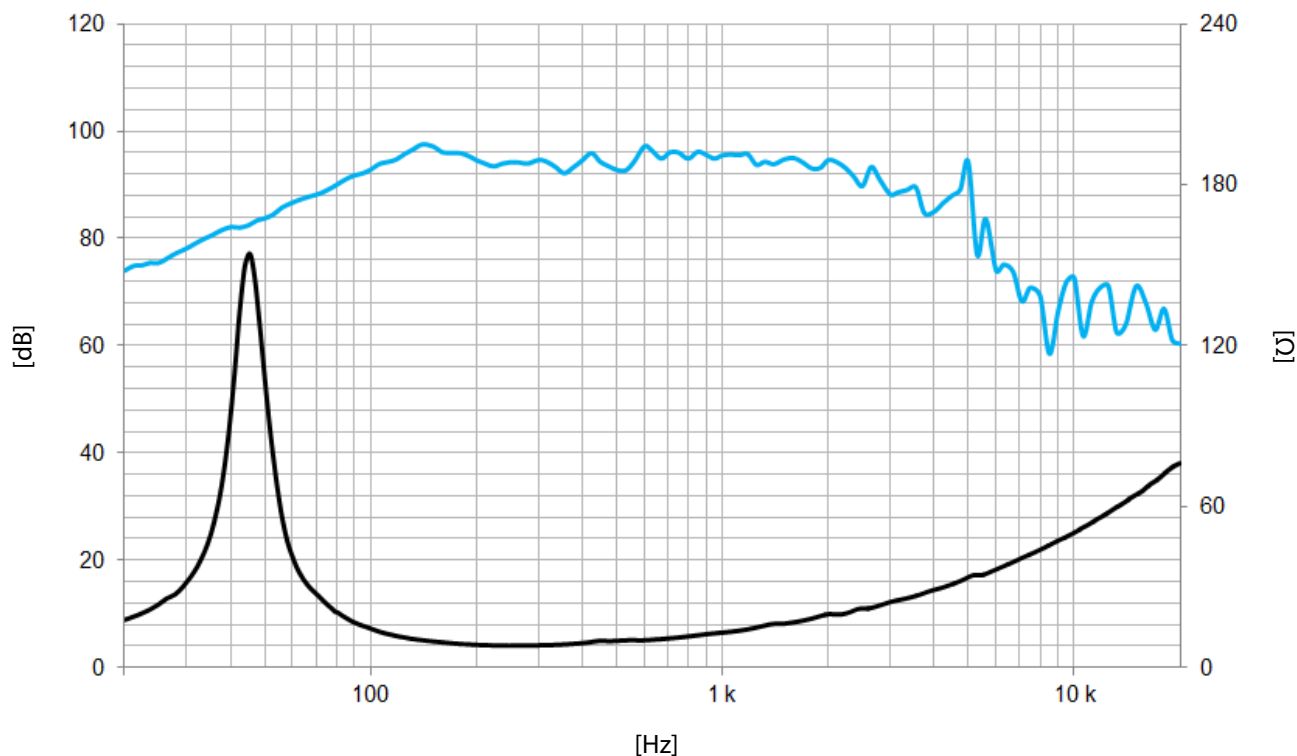
#### Notes:

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

<sup>2</sup> Program power is defined as power capacity + 3 dB.

<sup>3</sup> 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).

<sup>4</sup> The X<sub>max</sub> is calculated as (L<sub>vc</sub> - H<sub>ag</sub>)/2 + (H<sub>ag</sub>/3,5), where L<sub>vc</sub> is the voice coil length and H<sub>ag</sub> is the air gap height.



**Note:** 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	294,5 mm	11,6 in
Baffle cutout diameter:		
- Front mount	278 mm	10,9 in
Depth	133 mm	5,2 in
Net weight	7,1 kg	15,6 lb
Shipping weight	7,8 kg	17,2 lb

### DIMENSION DRAWING

