

### KEY FEATURES



- High power handling: 1.400 W program power
- Exclusive Malt Cross® Technology Cooling System
- Low power compression losses
- High sensitivity: 97 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	250 mm	10 in
Rated impedance		8 $\Omega$
Minimum impedance		7,5 $\Omega$
Power capacity <sup>1</sup>		700 W <sub>AES</sub>
Program power <sup>2</sup>		1.400 W
Sensitivity	97 dB	1W / 1m @ Z <sub>N</sub>
Frequency range		65 - 4.000 Hz
Recom. enclosure		V <sub>b</sub> = 14 l
(Bass-reflex design)		F <sub>b</sub> = 76 Hz
Voice coil diameter	76,2 mm	3 in
BI factor		21,8 N/A
Moving mass		0,054 kg
Voice coil length		18 mm
Air gap height		10 mm
X <sub>damage</sub> (peak to peak)		48 mm

Notes:

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

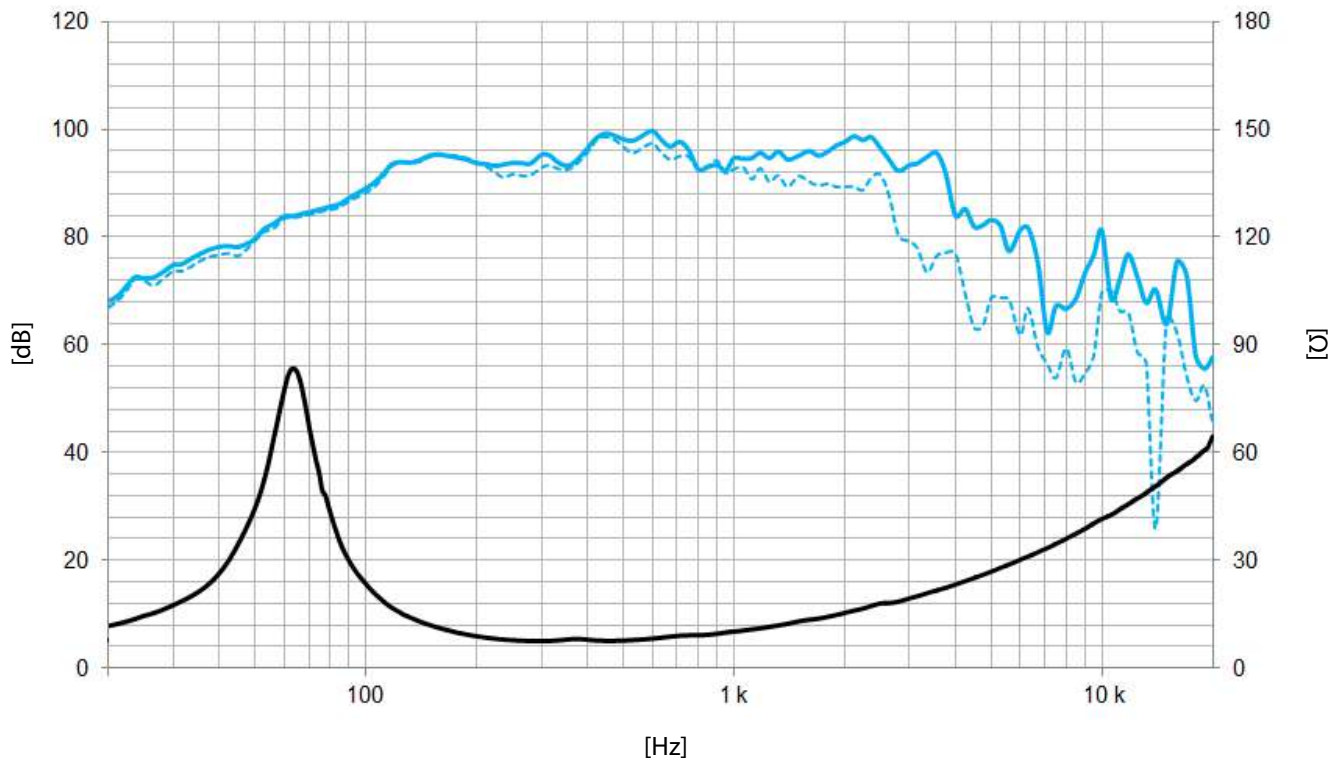
<sup>2</sup> Program power is defined as power capacity + 3 dB.

<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.

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

Resonant frequency, f <sub>s</sub>	63 Hz
D.C. Voice coil resistance, R <sub>e</sub>	5,2 $\Omega$
Mechanical Quality Factor, Q <sub>ms</sub>	3,8
Electrical Quality Factor, Q <sub>es</sub>	0,24
Total Quality Factor, Q <sub>ts</sub>	0,22
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	20 l
Mechanical Compliance, C <sub>ms</sub>	115 $\mu$ m / N
Mechanical Resistance, R <sub>ms</sub>	5,6 kg / s
Efficiency, $\eta_0$	2,1 %
Effective Surface Area, S <sub>d</sub>	0,035 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> <sup>4</sup>	7 mm
Displacement Volume, V <sub>d</sub>	245 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub> @ 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	261 mm	10,3 in
Bolt circle diameter	243,5 mm	9,6 in
Baffle cutout diameter:		
- Front mount	228 mm	9,0 in
Depth	127 mm	5,0 in
Net weight	3,6 kg	7,9 lb
Shipping weight	4,1 kg	9,0 lb

### DIMENSION DRAWING

