

### KEY FEATURES



- High power handling: 1.000 W program power
- Exclusive Malt Cross® Technology Cooling System
- Low power compression losses
- High sensitivity: 98 dB (1W / 1m)
- FEA optimized neodymium magnetic circuit
- Optimized non-linear behaviour
- 2,5" DUO double layer in/out copper voice coil
- Aluminium demodulating ring
- Waterproof cone with treatment for both sides
- Extended controlled displacement:  $X_{max} \pm 5$  mm
- 42 mm peak-to-peak excursion before damage
- Weight 2,8 kg
- Optimized for bass or mid-bass high performance audio systems



### TECHNICAL SPECIFICATIONS

Nominal diameter	200 mm	8 in
Rated impedance		8 $\Omega$
Minimum impedance		7,1 $\Omega$
Power capacity <sup>1</sup>		500 W <sub>AES</sub>
Program power <sup>2</sup>		1.000 W
Sensitivity	98 dB	1W / 1m @ Z <sub>N</sub>
Frequency range		80 - 6.000 Hz
Recom. enclosure (Bass-reflex design)		V <sub>b</sub> = 12 l F <sub>b</sub> = 90 Hz
Voice coil diameter	63,5 mm	2,5 in
Bl factor		16,7 N/A
Moving mass		0,023 kg
Voice coil length		14 mm
Air gap height		8 mm
X <sub>damage</sub> (peak to peak)		42 mm

Notes:

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

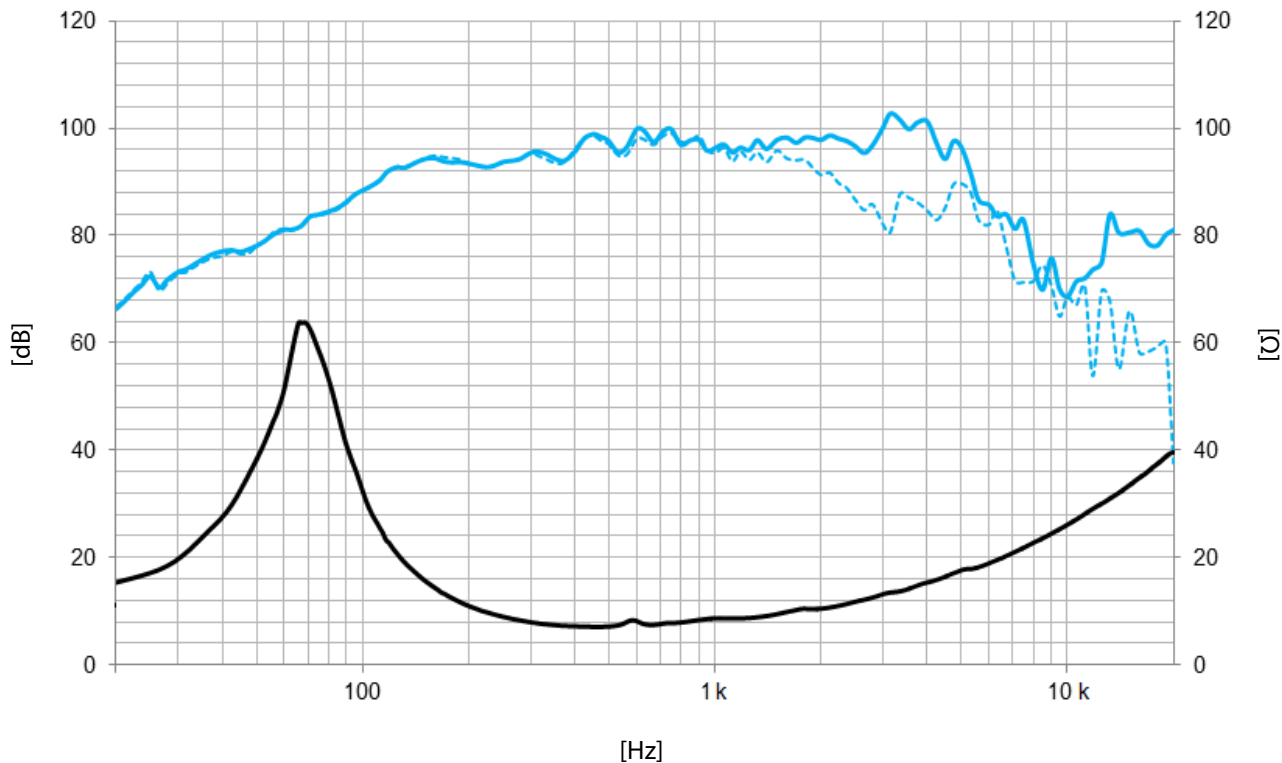
<sup>2</sup> Program power is defined as power capacity + 3 dB.

<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>	69 Hz
D.C. Voice coil resistance, R <sub>e</sub>	5,3 $\Omega$
Mechanical Quality Factor, Q <sub>ms</sub>	2,6
Electrical Quality Factor, Q <sub>es</sub>	0,19
Total Quality Factor, Q <sub>ts</sub>	0,18
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	15,9 l
Mechanical Compliance, C <sub>ms</sub>	231 $\mu$ m / N
Mechanical Resistance, R <sub>ms</sub>	3,8 kg / s
Efficiency, $\eta_0$	2,6 %
Effective Surface Area, S <sub>d</sub>	0,022 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> <sup>4</sup>	5 mm
Displacement Volume, V <sub>d</sub>	110 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub> @ 1 kHz	0,5 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	212 mm	8,3 in
Bolt circle diameter	195 mm	7,7 in
Baffle cutout diameter:		
- Front mount	182 mm	7,2 in
Depth	100 mm	3,9 in
Net weight	2,8 kg	6,2 lb
Shipping weight	3,1 kg	6,8 lb

### DIMENSION DRAWING

