

8MC500Nd

LOW & MID FREQUENCY TRANSDUCER

MC Series



- 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
- Weatherproof cone with treatment for both sides
- Extended controlled displacement: X_{max} ± 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 Ω
Minimum impedance		7,1 Ω
Power capacity 1		500 W _{AES}
Program power ²		1.000 W
Sensitivity	98 dB 1W	/ 1m @ Z _N
Frequency range	80	- 6.000 Hz
Recom. enclosure		$V_{b} = 12 I$
(Bass-reflex design)		$F_{b} = 90 \text{ Hz}$
Voice coil diameter	63,5 mm	2,5 in
BI factor		16,7 N/A
Moving mass		0,023 kg
Voice coil length		14 mm
Air gap height		8 mm
X _{damage} (peak to peak)		42 mm

THIELE-SMALL PARAMETERS 3

Resonant frequency, f _s	69 Hz
D.C. Voice coil resistance, R _e	5,3 Ω
Mechanical Quality Factor, Q _{ms}	2,6
Electrical Quality Factor, Qes	0,19
Total Quality Factor, Qts	0,18
Equivalent Air Volume to C _{ms} , V _{as}	15,9 I
Mechanical Compliance, C _{ms}	231 μ m / N
Mechanical Resistance, R _{ms}	3,8 kg / s
Efficiency, η ₀	2,6 %
Effective Surface Area, S _d	$0,022 \text{ m}^2$
Maximum Displacement, X _{max} ⁴	5 mm
Displacement Volume, V _d	110 cm ³
Voice Coil Inductance, Le @ 1 kHz	0,5 mH

Notes

¹ The power capaticty 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).

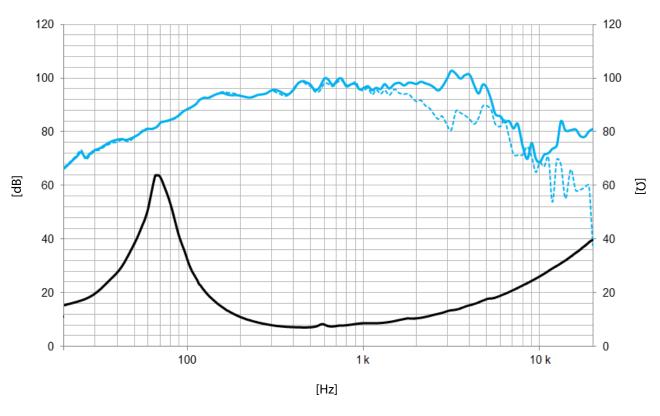
 $^{^4}$ The X_{max} is calculated as $(L_{VC} - H_{aq})/2 + (H_{aq}/3.5)$, where L_{VC} is the voice coil length and H_{aq} is the air gap height.



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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

