

10MCS500

LOW & MID FREQUENCY TRANSDUCER MCS Series



- High power handling: 1000 W program power
- 2,5" copper wire voice coil
- Malt Cross[®] Cooling System
- Low power compression losses
- High sensitivity: 96,5 dB (1W / 1m)

- Optimized pressed steel frame
- FEA optimized magnetic circuit
- Weatherproof cone with treatment for both sides of the cone
- Optimized for 2 or 3 way PA systems and line arrays for ultimate professional applications





TECHNICAL SPECIFICATIONS

Nominal diameter	250	mm	10 in
Rated impedance			8 Ω
Minimum impedance			7,2 Ω
Power capacity 1		į	500 W _{AES}
Program power ²			1.000 W
Sensitivity	96,5 dB	1W /	1m @ Z _N
Frequency range		70 -	5.000 Hz
Voice coil diameter	63,5	mm	2,5 in
BI factor			17,6 N/A
Moving mass			0,044 kg
Voice coil length			19,5 mm
Air gap height			9,5 mm
X _{damage} (peak to peak)			40 mm

THIELE-SMALL PARAMETERS³

05.11
65 Hz
5,6 Ω
10,1
0,33
0,31
24 I
136 μm / N
1,8 kg / s
1,9 %
$0,035 \text{ m}^2$
8 mm
280 cm ³
1,1 mH

¹ The power capaticty is determined according to AES2-1984 (r2003) standard.

² Program power is defined as power capacity + 3 dB.

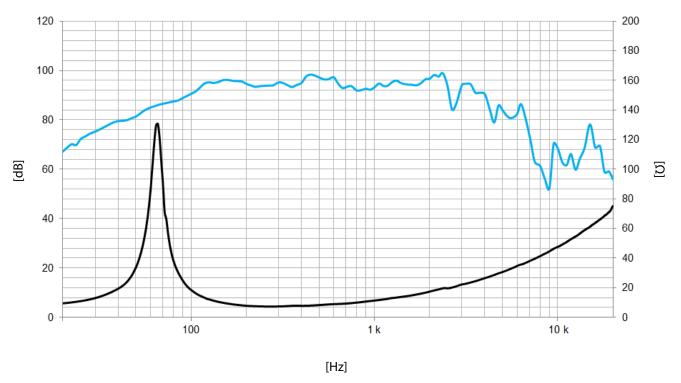
³ T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

 $^{^4}$ The X_{max} is calculated as (L_{vc} - H_{ag})/2 + (H_{ag}/3,5), where L_{vc} is the voice coil length and H_{ag} is the air gap height.



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

MOUNTING INFORMATION

Overall diameter	258 mm	10,2 in
Bolt circle diameter	241 mm	9,5 in
Baffle cutout diameter:		
- Front mount	230 mm	9,1 in
Depth	125 mm	4,9 in
Net weight	5,7 kg	12,6 lb
Shipping weight	6,1 kg	13,5 lb

DIMENSION DRAWING

