

15MC700

LOW & MID FREQUENCY TRANSDUCER MC Series



- High power handling: 1.400 W program power
- Exclusive Malt Cross® Technology Cooling System
- Low power compression losses
- High sensitivity: 98 dB (1W / 1m)
- · FEA optimized magnetic circuit
- Optimized linear behavior

- Weatherproof cone treatment on both sides of the cone
- 3" DUO double layer in/out copper voice coil
- · Aluminum demodulating ring
- Extended controlled displacement: X_{max} ± 9,8 mm
- 40 mm peak-to-peak excursion before damage
- Optimized for low frequency and mid-bass applications





TECHNICAL SPECIFICATIONS

Nominal diameter	38	80 mm	15 in
Rated impedance			8 Ω
Minimum impedance			7,4 Ω
Power capacity ¹		70	0 W _{AES}
Program power ²		1	.400 W
Sensitivity	98 dB	1W / 1r	n @ Z _N
Frequency range		45 - 4.	000 Hz
Voice coil diameter	76	6,2 mm	3 in
BI factor		1	9,8 N/A
Moving mass		0	,094 kg
Voice coil length			23 mm
Air gap height			8 mm
X _{damage} (peak to peak)			40 mm

THIELE-SMALL PARAMETERS 3

Resonant frequency, f _s	44 Hz
D.C. Voice coil resistance, R _e	6 Ω
Mechanical Quality Factor, Q _{ms}	5,3
Electrical Quality Factor, Qes	0,40
Total Quality Factor, Qts	0,37
Equivalent Air Volume to C _{ms} , V _{as}	148 I
Mechanical Compliance, C _{ms}	136 μm / N
Mechanical Resistance, R _{ms}	4,9 kg / s
Efficiency, η ₀	3,1 %
Effective Surface Area, S _d	0,088 m ²
Maximum Displacement, X _{max} ⁴	9,8 mm
Displacement Volume, V _d	880 cm ³
Voice Coil Inductance, Le	1 mH

Notes

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

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

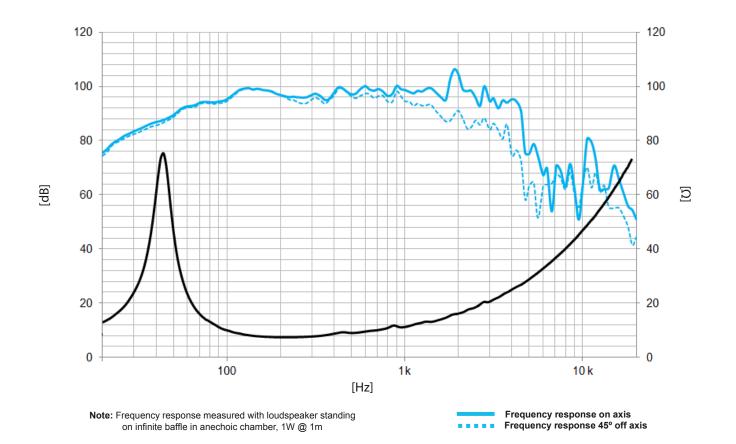
³ T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

 $^{^4}$ The X_{max} is calculated as (L_{vc} - H_{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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MOUNTING INFORMATION

Overall diameter	388 mm	15,27 in
Bolt circle diameter	370 mm	14,56 in
Baffle cutout diameter:		
- Front mount	349,5 mm	13,76 in
Depth	175 mm	6,89 in
Net weight	7,5 kg	16,5 lb
Shipping weight	8,5kg	18,7 lb

DIMENSION DRAWING

