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PROFESSIONAL LOUDSPEAKERS

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10CMV2

LOW & MID FREQUENCY TRANSDUCER

KEY FEATURES

- High power handling: 500 W program power
- 1.5” copper wire voice coil
- High sensitivity: 95 dB (1W / 1m)
- Very linear extended response and low distortion
- Treated double roll cloth surround
- Optimized pressed steel frame
- Ferrite magnet
- Designed for bass and midbass applications in small vented cabinets





TECHNICAL SPECIFICATIONS

Nominal diameter	250 mm	10 in
Rated impedance		8 Ω
Minimum impedance		7,2 Ω
Power capacity*		250 W_{AES}
Program power		500 W
Sensitivity	95 dB	1W / 1m @ Z_N
Frequency range		60 - 5.000 Hz
Recom. enclosure		V_b = 30 l
(Bass-reflex design)		F_b = 54 Hz
Voice coil diameter	38,1 mm	1,5 in
Bl factor		13,4 N/A
Moving mass		0,042 kg
Voice coil length		16 mm
Air gap height		7 mm
X_{damage} (peak to peak)		30 mm

THIELE-SMALL PARAMETERS**

Resonant frequency, f_s	52 Hz
D.C. Voice coil resistance, R_e	5,9 Ω
Mechanical Quality Factor, Q_{ms}	3,8
Electrical Quality Factor, Q_{es}	0,47
Total Quality Factor, Q_{ts}	0,42
Equivalent Air Volume to C_{ms}, V_{as}	44 l
Mechanical Compliance, C_{ms}	216 μm / N
Mechanical Resistance, R_{ms}	3,7 kg / s
Efficiency, η_0	1,3 %
Effective Surface Area, S_d	0,038 m^2
Maximum Displacement, X_{max} * **	6,5 mm
Displacement Volume, V_d	247 cm^3
Voice Coil Inductance, L_e @ 1 kHz	0,8 mH

Notes:

* The power capaticty is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music program material.

** 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).

*** 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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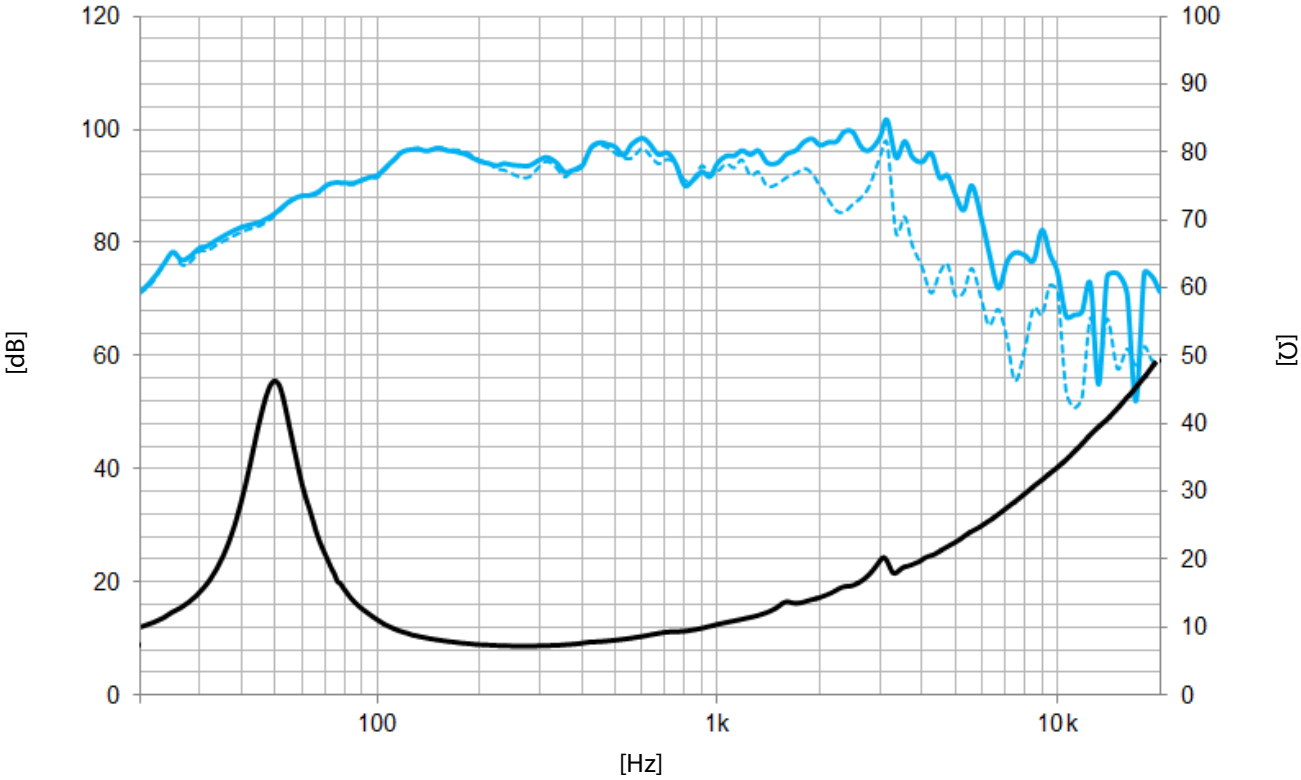
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Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

Frequency response on axis
Frequency response 45º off axis

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	115 mm	4,5 in
Net weight	3,1 kg	6,8 lb
Shipping weight	3,5 kg	7,7 lb

DIMENSION DRAWING

