

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*	2	50 W _{AES}
Program power		500 W
Sensitivity	95 dB 1W /	1m @ Z _N
Frequency range	60 -	5.000 Hz
Recom. enclosure		$V_{b} = 30 \text{ I}$
(Bass-reflex design)	F	_b = 54 Hz
Voice coil diameter	38,1 mm	1,5 in
BI 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, Qts	0,42
Equivalent Air Volume to C _{ms} , V _{as}	44
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.

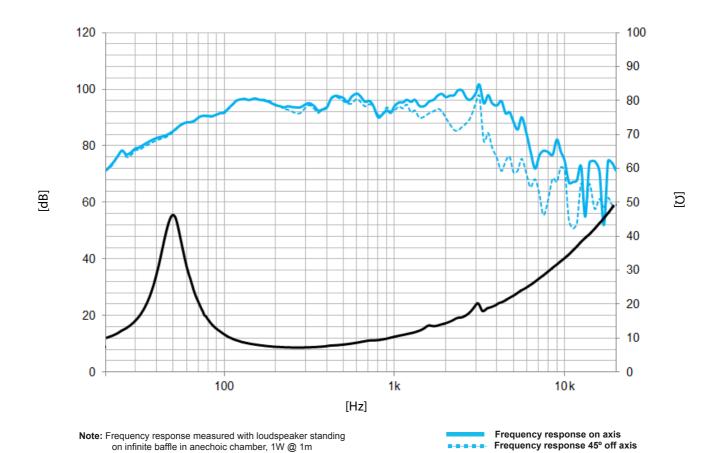
^{**} T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

^{***} 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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MOUNTING INFORMATION

258 mm	10,2 in
241 mm	9,5 in
230 mm	9,1 in
115 mm	4,5 in
3,1 kg	6,8 lb
3,5 kg	7,7 lb
	241 mm 230 mm 115 mm 3,1 kg

DIMENSION DRAWING

