beyma

PROFESSIONAL LOUDSPEAKERS
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12CMV3

LOW & MID FREQUENCY TRANSDUCER

KEY FEATURES

- High power handling: 640 W program power
- 2,5” CCAW wire voice coil
- High sensitivity: 96,5 dB (1W / 1m)
- Very linear extended response and low distortion
- Treated double roll cloth surround
- Weatherproof membrane
- Optimized pressed steel frame
- Ferrite magnet
- Designed for bass and midbass applications in small vented cabinets

TECHNICAL SPECIFICATIONS

Nominal diameter	300 mm	12 in
Rated impedance		8 Ω
Minimum impedance		7,5 Ω
Power capacity*		320 W_{AES}
Program power		640 W
Sensitivity	96,5 dB	1W / 1m @ Z_N
Frequency range		50 - 6.000 Hz
Recom. enclosure		V_b = 55 l
(Bass-reflex design)		F_b = 62,5 Hz
Voice coil diameter	63,5 mm	2,5 in
Bl factor		12,3 N/A
Moving mass		0,044 kg
Voice coil length		17 mm
Air gap height		7 mm
X_{damage} (peak to peak)		29 mm

THIELE-SMALL PARAMETERS**

Resonant frequency, f_s	52 Hz
D.C. Voice coil resistance, R_e	6,1 Ω
Mechanical Quality Factor, Q_{ms}	10,6
Electrical Quality Factor, Q_{es}	0,58
Total Quality Factor, Q_{ts}	0,55
Equivalent Air Volume to C_{ms}, V_{as}	85 l
Mechanical Compliance, C_{ms}	214 μm / N
Mechanical Resistance, R_{ms}	1,3 kg / s
Efficiency, η_0	2 %
Effective Surface Area, S_d	0,053 m^2
Maximum Displacement, X_{max} * **	7 mm
Displacement Volume, V_d	371 cm^3
Voice Coil Inductance, L_e @ 1 kHz	0,89 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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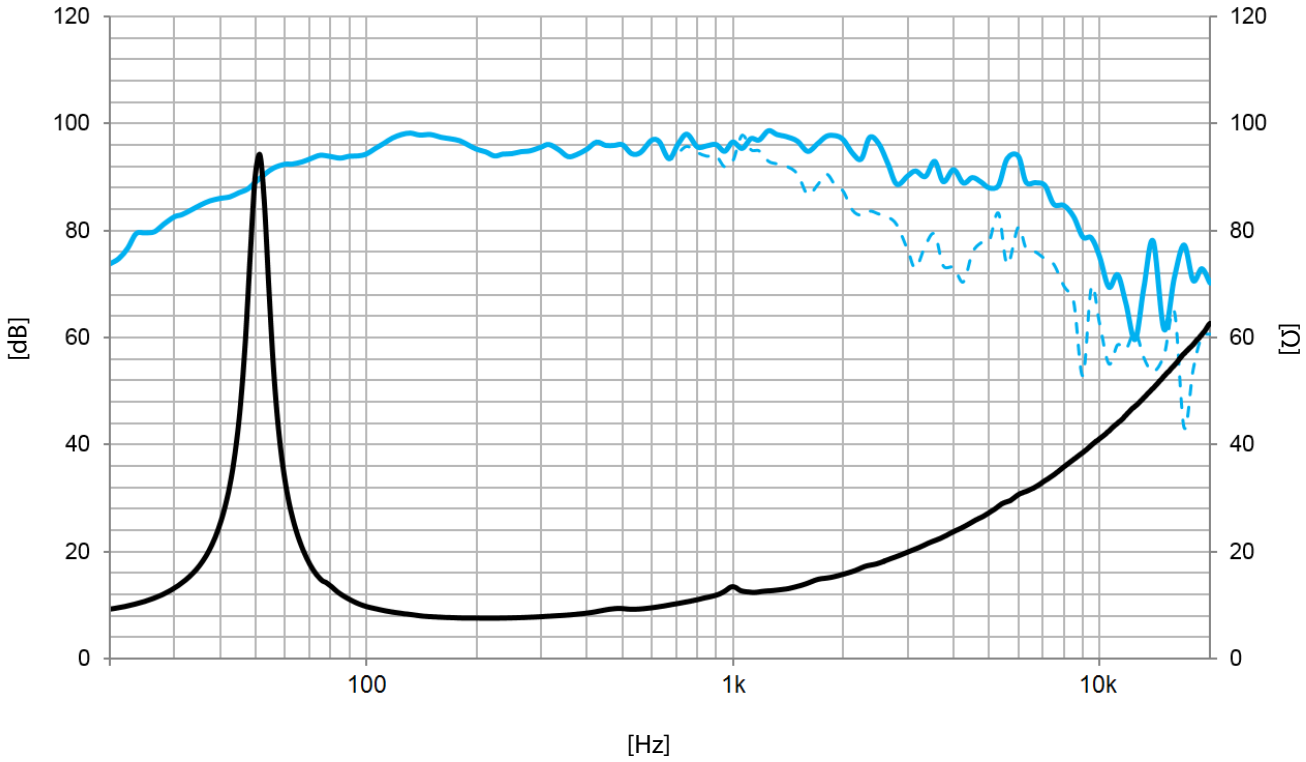

Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

Frequency response on axis
Frequency response 45º off axis

MOUNTING INFORMATION

Overall diameter	310 mm	12,2 in
Bolt circle diameter	292 mm	11,5 in
Baffle cutout diameter:		
- Front mount	280 mm	11,0 in
Depth	130 mm	5,1 in
Net weight	4,6 kg	10,1 lb
Shipping weight	5,3 kg	11,7 lb

DIMENSION DRAWING