beyma

PROFESSIONAL LOUDSPEAKERS

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8CMV2

LOW & MID FREQUENCY TRANSDUCER

KEY FEATURES

- High power handling: 500 W program power
- 1.5” CCAW wire voice coil
- High sensitivity: 94 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 compact vented cabinets





TECHNICAL SPECIFICATIONS

Nominal diameter	200 mm	8 in
Rated impedance		8 Ω
Minimum impedance		6,4 Ω
Power capacity*		250 W_{AES}
Program power		500 W
Sensitivity	94 dB	1W / 1m @ Z_N
Frequency range		80 - 8.000 Hz
Recom. enclosure		V_b = 20 l
(Bass-reflex design)		F_b = 74 Hz
Voice coil diameter	38,1 mm	1,5 in
Bl factor		9,6 N/A
Moving mass		0,021 kg
Voice coil length		14 mm
Air gap height		6 mm
X_{damage} (peak to peak)		29 mm

THIELE-SMALL PARAMETERS**

Resonant frequency, f_s	75 Hz
D.C. Voice coil resistance, R_e	5,1 Ω
Mechanical Quality Factor, Q_{ms}	7,7
Electrical Quality Factor, Q_{es}	0,55
Total Quality Factor, Q_{ts}	0,52
Equivalent Air Volume to C_{ms}, V_{as}	14,6 l
Mechanical Compliance, C_{ms}	213 µm / N
Mechanical Resistance, R_{ms}	1,3 kg / s
Efficiency, η_0	1,1 %
Effective Surface Area, S_d	0,022 m^2
Maximum Displacement, X_{max} * **	5,7 mm
Displacement Volume, V_d	125 cm^3
Voice Coil Inductance, L_e @ 1 kHz	0,6 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.

Acústica Beyma SL - P.I. Moncada II, C/ Pont Sec, 1C - 46113 Moncada, Valencia (Spain) - Tel. +34 96 130 13 75 - beyma@beyma.com

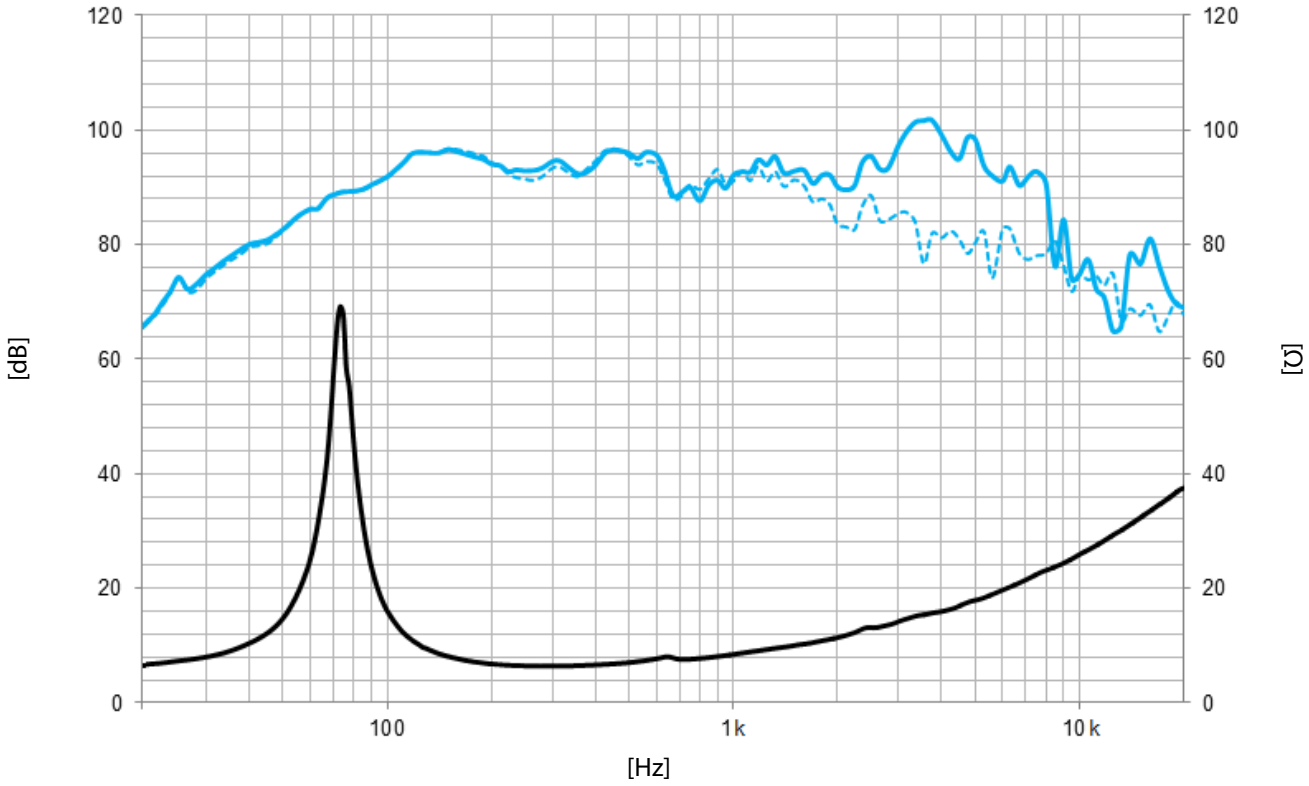
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Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

Frequency response on axis
Frequency response 45º off axis

MOUNTING INFORMATION

Overall diameter	210 mm	8,3 in
Bolt circle diameter	196 mm	7,7 in
Baffle cutout diameter:		
- Front mount	180 mm	7,1 in
Depth	92 mm	3,6 in
Net weight	2,4 kg	5,3 lb
Shipping weight	2,6 kg	5,7 lb

DIMENSION DRAWING

