beyma

PROFESSIONAL LOUDSPEAKERS
www.beyma.com

6MCF200Nd

MID FREQUENCY TRANSDUCER

KEY FEATURES

- Very high effciency mid-range driver
- Carbon fiber cone for optimum loading behaviour and low distortion
- Extremely linear frequency response
- 2” aluminium voice coil
- 400 W Program Power
- High efficiency and sensitivity
- Shorting cap for extended response
- FEA optimized neodymium magnet structure
- Sealed cast aluminium frame
- Designed for high performance mid-frequency line array

TECHNICAL SPECIFICATIONS

Nominal diameter	165 mm	6,5 in
Rated impedance		8 Ω
Minimum impedance		7 Ω
Power capacity [1]		200 W_{AES}
Program power [2]		400 W
Sensitivity	97 dB	1W / 1m @ Z_N
Frequency range		400 - 12.000 Hz
Voice coil diameter	50,8 mm	2 in
Bl factor		18,1 N/A
Moving mass		0,015 kg
Voice coil length		9,2 mm
Air gap height		9 mm

THIELE-SMALL PARAMETERS [3]

Resonant frequency, f_s	406 Hz
D.C. Voice coil resistance, R_e	6,2 Ω
Mechanical Quality Factor, Q_{ms}	10,3
Electrical Quality Factor, Q_{es}	0,77
Total Quality Factor, Q_{ts}	0,72
Equivalent Air Volume to C_{ms}, V_{as}	0,27 l
Mechanical Compliance, C_{ms}	10 μm / N
Mechanical Resistance, R_{ms}	3,9 kg / s
Efficiency, η_0	2,3 %
Effective Surface Area, S_d	0,014 m^2
Maximum Displacement, X_{max} [4]	2,5 mm
Displacement Volume, V_d	35 cm^3
Voice Coil Inductance, L_e @ 1 kHz	0,1 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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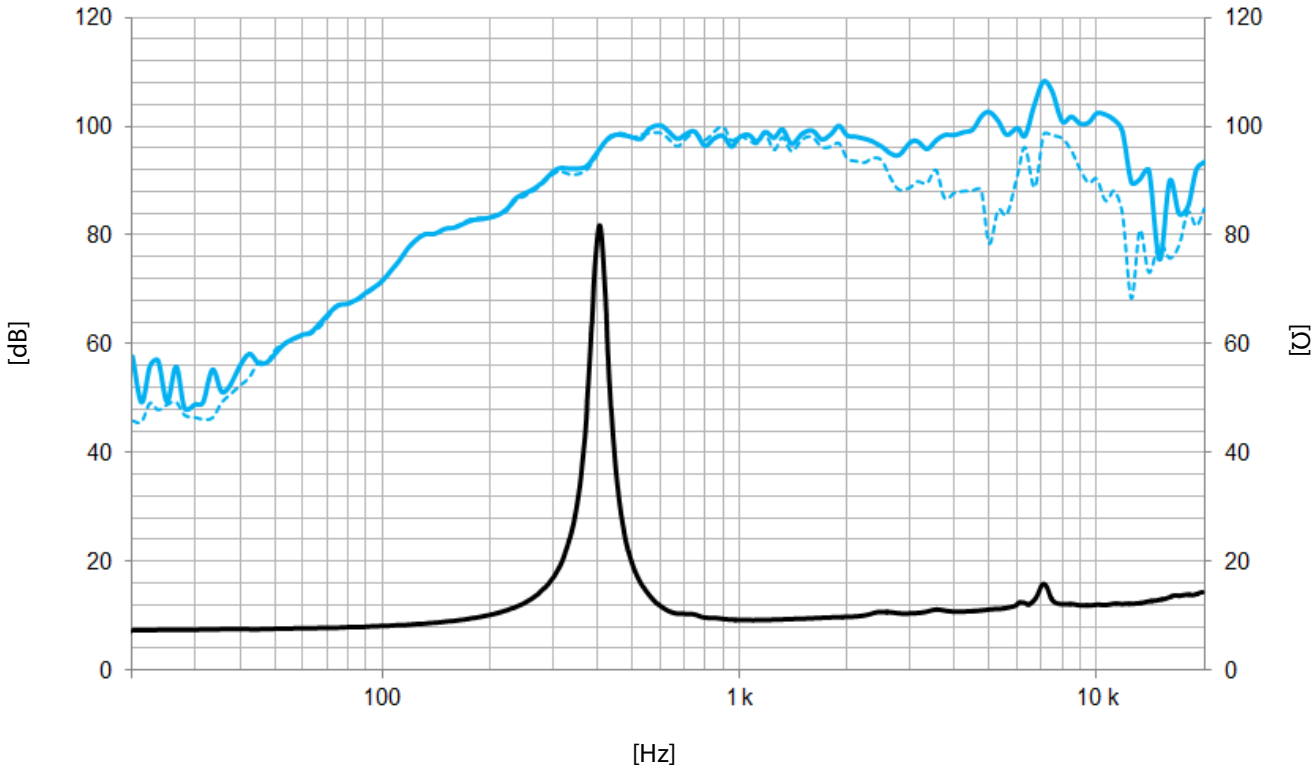

Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

Frequency response on axis
Frequency response 45º off axis

MOUNTING INFORMATION

Overall diameter	174 mm	6,8 in
Bolt circle diameter	158 mm	6,2 in
Baffle cutout diameter:		
- Front mount	146 mm	5,7 in
Depth	75 mm	2,9 in
Net weight	2,3 kg	5,1 lb
Shipping weight	2,7 kg	5,9 lb

DIMENSION DRAWING