beyma))

6MCF200Nd
MID FREQUENCY TRANSDUCER
Preliminary Data Sheet

KEY FEATURES

- Very high efficiency 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
- FEA optimized neodymium motor structure
- Sealed cast aluminium frame
- Designed for high performance mid-frequency line array and horn loading applications

TECHNICAL SPECIFICATIONS

Nominal diameter	165 mm	6,5 in
Rated impedance		8 Ω
Minimum impedance		8 Ω
Power capacity*		200 W_{AES}
Program power		400 W
Sensitivity	97 dB	1W / 1m @ Z_N
Frequency range		400 - 12.000 Hz
Voice coil diameter	51,7 mm	2 in
Bl factor		19,2 N/A
Moving mass		0,016 kg
Voice coil length		9,2 mm
Air gap height		9 mm

THIELE-SMALL PARAMETERS**

Resonant frequency, f_s	410 Hz
D.C. Voice coil resistance, R_e	6,3 Ω
Mechanical Quality Factor, Q_{ms}	5,9
Electrical Quality Factor, Q_{es}	0,72
Total Quality Factor, Q_{ts}	0,64
Equivalent Air Volume to C_{ms}, V_{as}	0,25 l
Mechanical Compliance, C_{ms}	9 μm / N
Mechanical Resistance, R_{ms}	7,1 kg / s
Efficiency, η_0	2,4 %
Effective Surface Area, S_d	0,014 m^2
Maximum Displacement, X_{max} ***	2,5 mm
Displacement Volume, V_d	35 cm^3
Voice Coil Inductance, L_e @ 1 kHz	0,25 mH

Notes:

* The power capacity 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).
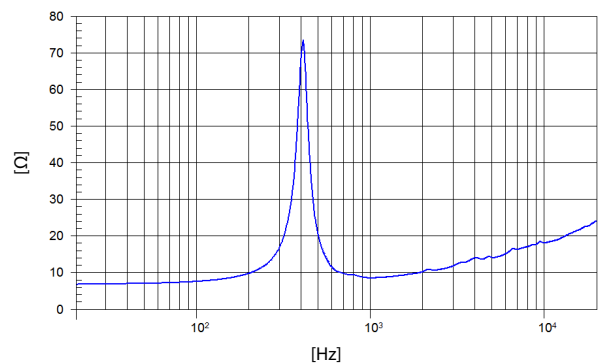
*** The X_{max} is calculated as $(L_{vc} - H_{ag})/2 + (H_{ag}/3,5)$, where L_{vc} is the voice coil length and H_{ag} is the air gap height.
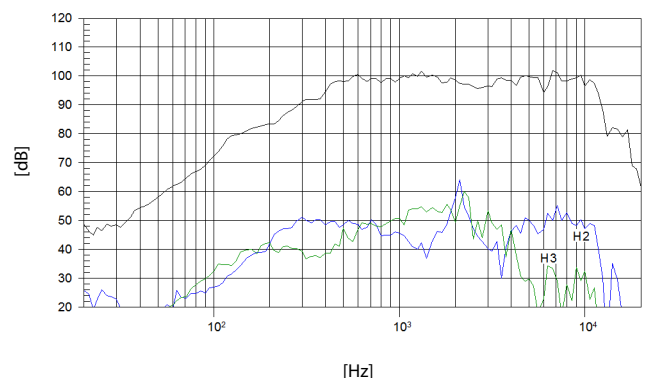
MOUNTING INFORMATION

Overall diameter	174 mm	6,85 in
Bolt circle diameter	158 mm	6,22 in
Baffle cutout diameter:		
- Front mount	146 mm	5,75 in
Depth	75 mm	2,95 in
Net weight	2,3 kg	5,07 lb
Shipping weight	2,7 kg	5,95 lb

FREE AIR IMPEDANCE CURVE

FREQUENCY RESPONSE & DISTORTION

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