beyma

PROFESSIONAL LOUDSPEAKERS
www.beyma.com

6MNd 4Ω

MID FREQUENCY TRANSDUCER

KEY FEATURES

- Good power handling: 100 W_{RMS}
- High sensitivity: 96 dB (1W / 1m)
- Low harmonic distortion
- 1,5” copper wire voice coil
- Extended frequency response
- Designed for high quality mid frequency applications

TECHNICAL SPECIFICATIONS

Nominal diameter	165 mm	6,5in
Rated impedance		4 Ω
Minimum impedance		3,9 Ω
Power capacity*		100 W_{RMS}
Program power		200 W
Sensitivity	96 dB	1W @ 1m @ 2π
Frequency range		150 - 8.000 Hz
Voice coil diameter	38,5 mm	1,5 in
Bl factor		8,1 N/A
Moving mass		0,010 kg
Voice coil length		7,5 mm
Air gap height		6 mm

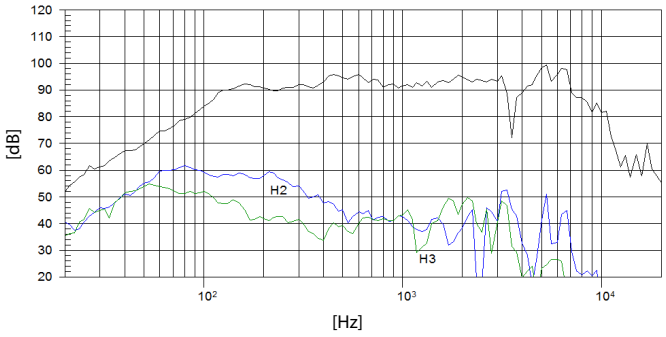
THIELE-SMALL PARAMETERS**

Resonant frequency, f_s	165 Hz
D.C. Voice coil resistance, R_e	3,6 Ω
Mechanical Quality Factor, Q_{ms}	7,9
Electrical Quality Factor, Q_{es}	0,57
Total Quality Factor, Q_{ts}	0,53
Equivalent Air Volume to C_{ms}, V_{as}	2,6 l
Mechanical Compliance, C_{ms}	93 μm / N
Efficiency, η_0	2 %
Effective Surface Area, S_d	0,014 m^2
Maximum Displacement, X_{max} * **	2 mm
Voice Coil Inductance, L_e	0,25 mH

MOUNTING INFORMATION

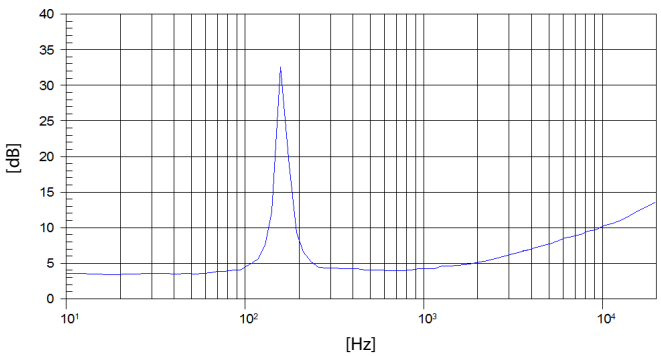
Overall diameter	174 mm	6,85 in
Bolt circle diameter	158 mm	6,22 in
Baffle cutout diameter:		
- Front mount	148 mm	5,83 in
Depth	67 mm	2,64 in
Net weight	1,5 kg	3,30 lb
Shipping weight	1,75 kg	3,85 lb

FREQUENCY RESPONSE



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

FREE AIR IMPEDANCE CURVE



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.