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PROFESSIONAL LOUDSPEAKERS
www.beyma.com

6B30/P

LOW & MID FREQUENCY TRANSDUCER

KEY FEATURES

- Program power: 100 W
- Sensitivity: 90 dB (1W / 1m)
- 1” copper voice coil
- Shorting cap for extended response and low harmonic distortion
- Extended controlled displacement: X_{max} ± 5,5 mm
- 15 mm peak-to-peak excursion before damage
- Low weight
- Designed for low and mid frequency reproduction
- Optimal for studio and Hi-Fi applications





TECHNICAL SPECIFICATIONS

Nominal diameter	165 mm	6,5 in
Rated impedance		8 Ω
Minimum impedance		6,3 Ω
Power capacity*		50 W_{AES}
Program power		100 W
Sensitivity	90 dB	1W / 1m @ Z_N
Frequency range		55 - 8.000 Hz
Voice coil diameter	25,4 mm	1 in
Bl factor		6,8 N/A
Moving mass		0,014 kg
Voice coil length		14 mm
Air gap height		6 mm
X_{damage} (peak to peak)		15 mm

THIELE-SMALL PARAMETERS**

Resonant frequency, f_s	56 Hz
D.C. Voice coil resistance, R_e	5,5 Ω
Mechanical Quality Factor, Q_{ms}	3
Electrical Quality Factor, Q_{es}	0,6
Total Quality Factor, Q_{ts}	0,5
Equivalent Air Volume to C_{ms}, V_{as}	15,6 l
Mechanical Compliance, C_{ms}	564 μm / N
Mechanical Resistance, R_{ms}	1,7 kg / s
Efficiency, η_0	0,5 %
Effective Surface Area, S_d	0,014 m^2
Maximum Displacement, X_{max} * **	5,5 mm
Displacement Volume, V_d	77 cm^3
Voice Coil Inductance, L_e @ 1 kHz	0,3 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.

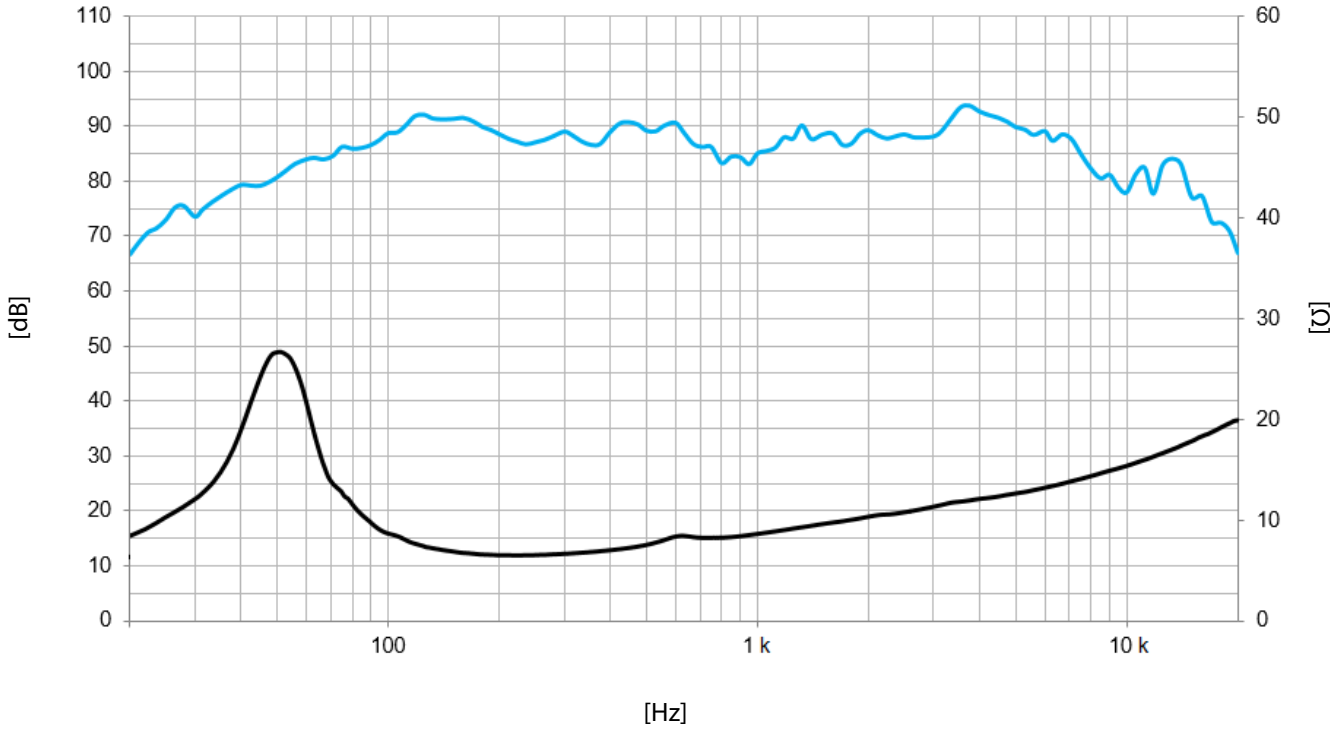
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Note: On axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

MOUNTING INFORMATION

Overall diameter	167 mm	6,5 in
Bolt circle diameter	156 mm	6,1 in
Baffle cutout diameter:		
- Front mount	141 mm	5,5 in
Depth	76 mm	3,0 in
Net weight	1,2 kg	2,6 lb
Shipping weight	1,3 kg	2,9 lb

DIMENSION DRAWING

