beyma

PROFESSIONAL LOUDSPEAKERS

www.beyma.com

6P200Nd

LOW FREQUENCY TRANSDUCER

P200 Series

KEY FEATURES

- High power handling 200 W_{AES}
- High sensitivity: 92 dB (1W / 1m)
- 2” aluminum voice coil
- Waterproof treatment for both sides of the cone
- Forced air convection circuit for low power compression
- Extended controlled displacement: X_{max} ± 5,5 mm
- Optimized for small and compact designs

TECHNICAL SPECIFICATIONS

Nominal diameter	165 mm	6,5 in
Rated impedance		8 Ω
Minimum impedance		5,8 Ω
Power capacity [1]		200 W_{AES}
Program power [2]		400 W
Sensitivity	92 dB	1W / 1m @ Z_N
Frequency range		60 - 9.000 Hz
Recom. enclosure vol.	10 / 40 l	0,35 / 1,4 ft^3
Voice coil diameter	50,8 mm	2 in
Bl factor		10,5 N/A
Moving mass		0,017 kg
Voice coil length		14 mm
Air gap height		7 mm
X_{damage} (peak to peak)		20 mm

THIELE-SMALL PARAMETERS [3]

Resonant frequency, f_s	56 Hz
D.C. Voice coil resistance, R_e	5,3 Ω
Mechanical Quality Factor, Q_{ms}	3,7
Electrical Quality Factor, Q_{es}	0,32
Total Quality Factor, Q_{ts}	0,29
Equivalent Air Volume to C_{ms}, V_{as}	11,9 l
Mechanical Compliance, C_{ms}	468 µm / N
Mechanical Resistance, R_{ms}	1,6 kg / s
Efficiency, η_0	0,65 %
Effective Surface Area, S_d	0,0135 m^2
Maximum Displacement, X_{max} [4]	5,5 mm
Displacement Volume, V_d	74,2 cm^3
Voice Coil Inductance, L_e	0,6 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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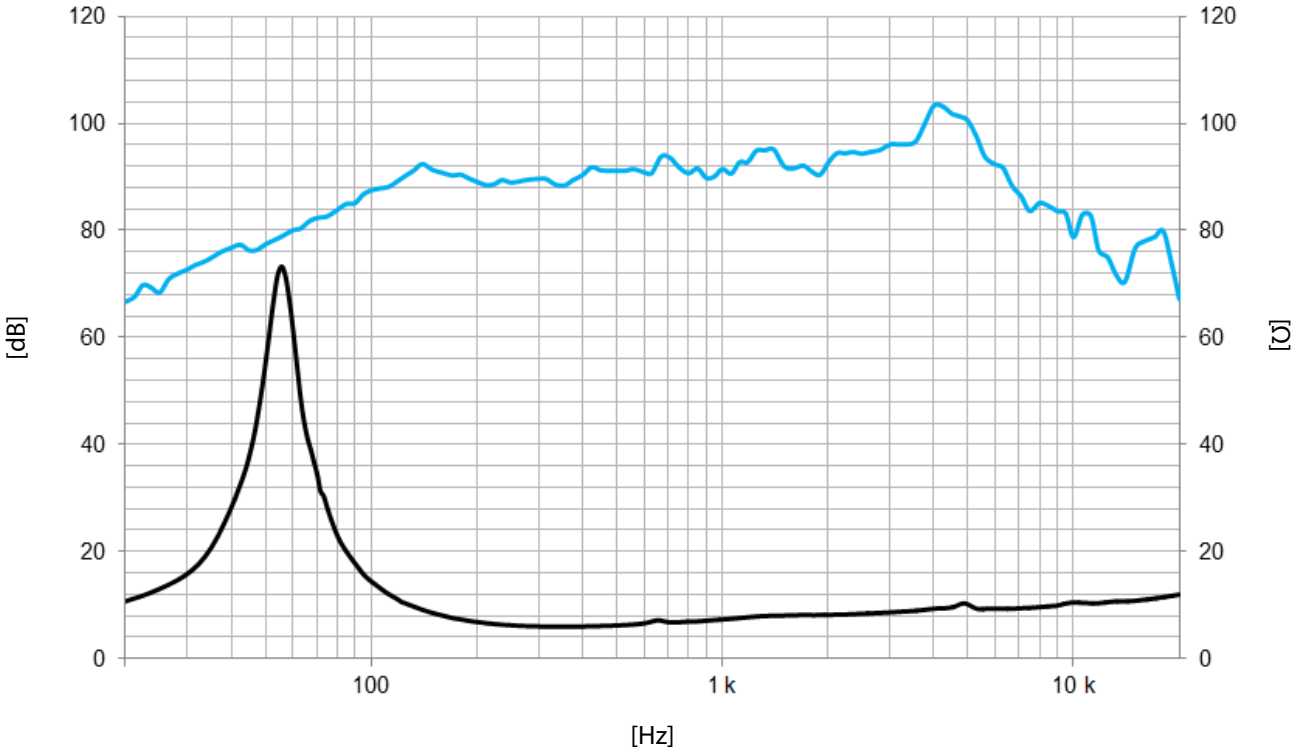

Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

MOUNTING INFORMATION

Overall diameter	187,5 mm	7,4 in
Bolt circle diameter	172 mm	6,8 in
Baffle cutout diameter:		
- Front mount	145,3 mm	5,7 in
Depth	86 mm	3,4 in
Net weight	1,9 kg	4,2 lb
Shipping weight	2 kg	4,4 lb

DIMENSION DRAWING