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PROFESSIONAL LOUDSPEAKERS
www.beyma.com

6P200Fe

LOW FREQUENCY TRANSDUCER
P200 Series

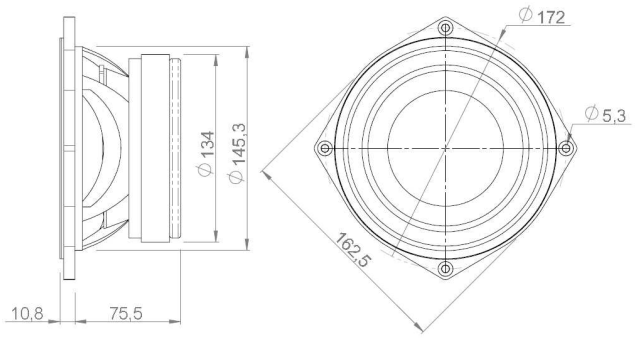
KEY FEATURES

- 200 W_{AES} power handling
- High sensitivity
- Low Resonant Frequency: 58 Hz
- Low harmonic distortion
- Extended controlled displacement: X_{max} ± 5,5 mm
- Extended mechanical displacement capability: X_{pp} 20 mm
- CONEX spider and waterproof materials
- Designed with MMSS technology
- Forced air convection circuit for low power compression
- Ferrite magnet system
- Optimal for small / compact designs

TECHNICAL SPECIFICATIONS

Nominal diameter	165 mm	6,5 in
Rated impedance		8 Ω
Minimum impedance		5,9 Ω
Power capacity*		200 W_{AES}
Program power		400 W
Sensitivity	93 dB	@ 1W @ Z_N
Frequency range		55 - 9.000 Hz
Recom. enclosure vol.	6 / 20 l	0,21 / 0,71 ft^3
Voice coil diameter	51,7 mm	2 in
Bl factor		10,5 N/A
Moving mass		0,017 kg
Voice coil length		14 mm
Air gap height		9 mm
X_{damage} (peak to peak)		20 mm

DIMENSION DRAWINGS



MOUNTING INFORMATION

Overall diameter	187,5 mm	7,38 in
Bolt circle diameter	172 mm	6,77 in
Baffle cutout diameter:		
- Front mount	145,3 mm	5,70 in
Depth	86,5 mm	3,4 in
Volume displaced by driver	0,6 l	0,02 ft^3
Net weight	3,1 kg	6,83 lb
Shipping weight	3,5 kg	7,77 lb

THIELE-SMALL PARAMETERS**

Resonant frequency, f_s	58 Hz
D.C. Voice coil resistance, R_e	4,9 Ω
Mechanical Quality Factor, Q_{ms}	4,6
Electrical Quality Factor, Q_{es}	0,27
Total Quality Factor, Q_{ts}	0,26
Equivalent Air Volume to C_{ms}, V_{as}	11,1 l
Mechanical Compliance, C_{ms}	429 μm / N
Mechanical Resistance, R_{ms}	1,40 kg / s
Efficiency, η_0	0,75 %
Effective Surface Area, S_d	0,0135 m^2
Maximum Displacement, X_{max} * **	5,5 mm
Displacement Volume, V_d	74,25 cm^3
Voice Coil Inductance, L_e	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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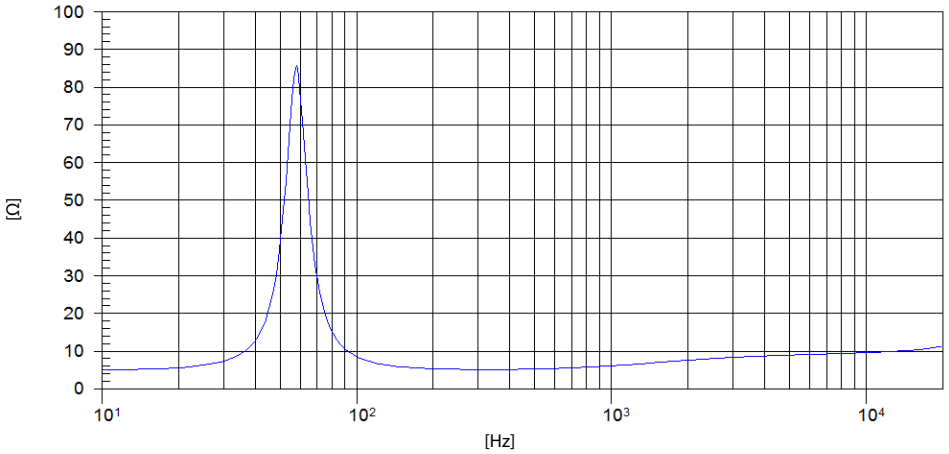
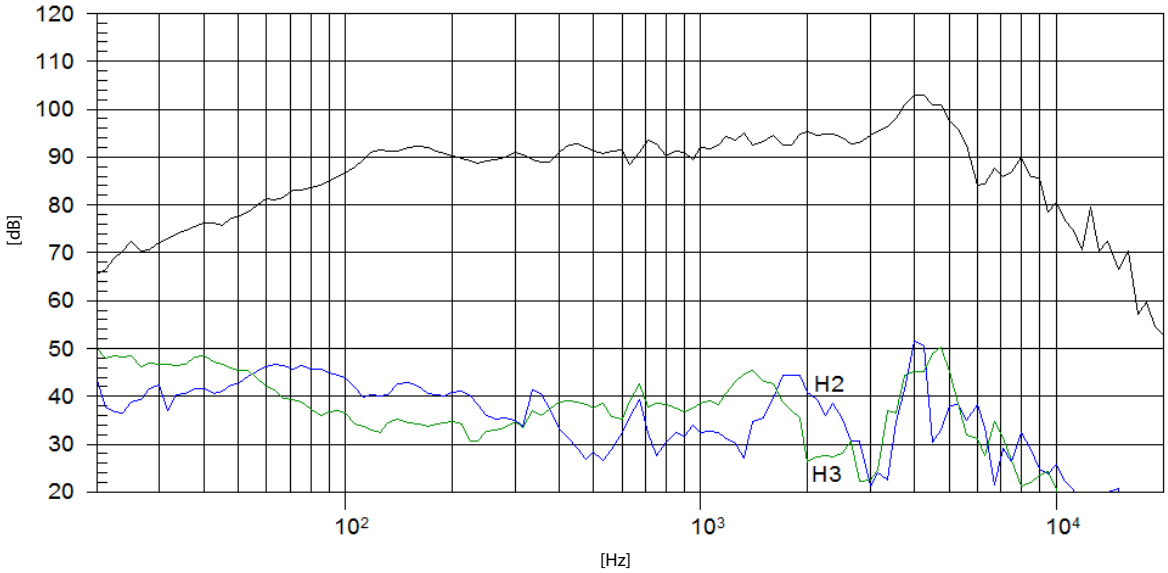
FREE AIR IMPEDANCE CURVE



FREQUENCY RESPONSE AND DISTORTION



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

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