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PROFESSIONAL LOUDSPEAKERS
www.beyma.com

5P200/Fe
LOW & MID FREQUENCY TRANSDUCER
P200 Series

KEY FEATURES

- 300 W program power
- Sensitivity: 92 dB @ 2,83 V @ 1 m
- Extended controlled displacement: $X_{max} \pm 5{,}7$ mm
- Extended mechanical displacement capability: $X_{damage} \pm 16$ mm
- Designed with MMSS technology for high control, symmetry and linearity
- Demodulating ring for low harmonic distortion
- CONEX spider for higher resistance and consistency
- Waterproof paper cone with Santoprene™ surround
- Ferrite magnet

TECHNICAL SPECIFICATIONS

Nominal diameter	127 mm	5 in
Rated impedance	8 Ω	
Minimum impedance	6,7 Ω	
Power capacity*	150 W$_{AES}$	
Program power	300 W	
Sensitivity	92 dB 2.83v @ 1m @ 2π	
Frequency range	70 - 10.000 Hz	
Recom. enclosure vol.	10 / 20 l	0,35 / 0,75 ft^3
Voice coil diameter	38 mm	1,5 in
Magnetic assembly weight	1,9 kg	4,19 lb
BL factor	8,5 N/A	
Moving mass	0.01 kg	
Voice coil length	14 mm	
Air gap height	6 mm	
X$_{damage}$ (peak to peak)	16 mm	

DIMENSION DRAWINGS

THIELE-SMALL PARAMETERS**

Resonant frequency, f$_s$	72 Hz
D.C. Voice coil resistance, R$_e$	5,2 Ω
Mechanical Quality Factor, Q$_{ms}$	7,50
Electrical Quality Factor, Q$_{es}$	0,35
Total Quality Factor, Q$_{ts}$	0,33
Equivalent Air Volume to C$_{ms}$, V$_{as}$	5,69 l
Mechanical Compliance, C$_{ms}$	451 μm / N
Mechanical Resistance, R$_{ms}$	0,65 kg / s
Efficiency, η_0	0,58 %
Effective Surface Area, S$_d$	0,0095 m^2
Maximum Displacement, X$_{max}$ ***	5,7 mm
Displacement Volume, V$_d$	49 cm^3
Voice Coil Inductance, L$_e$ @ 1 kHz	0,6 mH
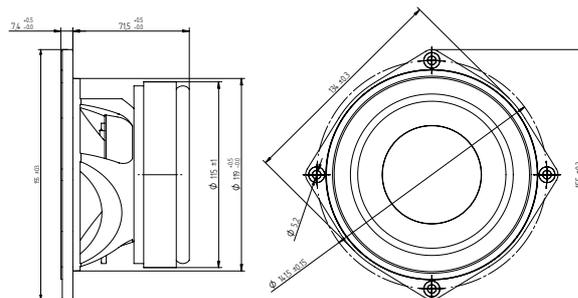
MOUNTING INFORMATION

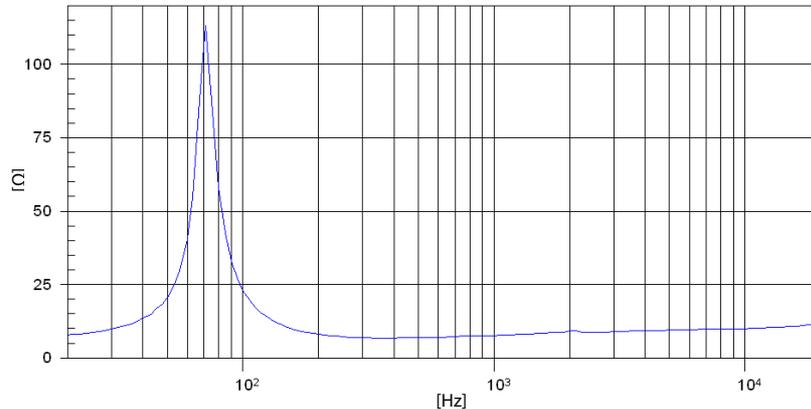|		
Overall diameter	155 mm	6,1 in
Bolt circle diameter	141,5 mm	5,57 in
Baffle cutout diameter:		
- Front mount	119 mm	4,69 in
- Rear mount	122 mm	4,8 in
Depth	78,9 mm	3,11 in
Volume displaced by driver	0,5 l	0,02 ft^3
Net weight	2,19 kg	4,83 lb
Shipping weight	2,47 kg	5,45 lb

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.
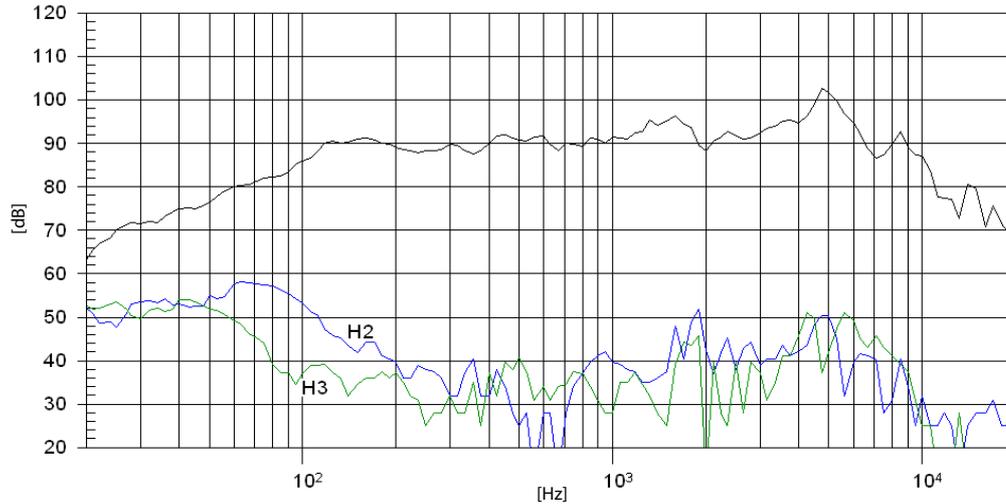
** T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

*** 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