

PROFESSIONAL LOUDSPEAKERS www.beyma.com

6P200Nd

LOW FREQUENCY TRANSDUCER

KEY FEATURES

- Real 200 w AES power handling
- Sensitivity: 92dB @ 2.83v
- 2 in Aluminium voice coil.
- Water proof materials
- Forced air convection circuit for low power compression.
- Extended controlled displacement: Xmax ± 5.5 mm
- Real low frequency driver
- Optimal for small/compact designs

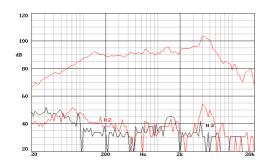
TECHNICAL SPECIFICATIONS

Nominal diameter 165 mm. 6.5 in. Rated impedance 8 ohms Minimum impedance 5.8 ohms Power capacity* 200 w AES Program power 400 w 92 dB $2.83v @ 1m @ 2\pi$ Sensitivity Frequency range 60 - 9000 Hz Recom. enclosure vol. 10 / 40 I 0.35 / 1.4 ft.3 Voice coil diameter 51.7 mm. 2 in. Magnetic assembly weight 1.6 kg. 3.52 lb. **BL** factor 10.5 N / A 0.017 kg. **Moving mass** Voice coil length 14 mm Air gap height 7 mm X damage (peak to peak) 20 mm

THIELE-SMALL PARAMETERS**

Resonant frequency, fs	56 Hz
D.C. Voice coil resistance, Re	5.3 ohms
Mechanical Quality Factor, Qms	3.69
Electrical Quality Factor, Qes	0.32
Total Quality Factor, Qts	0.29
Equivalent Air Volume to Cms, Vas	11.9
Mechanical Compliance, Cms	468 μ m / N
Mechanical Resistance, Rms	1.6 kg/s
Efficiency, ηο (%)	0.65
Effective Surface Area, Sd (m²)	0.0135 m ²
Maximum Displacement, Xmax***	5.5 mm
Displacement Volume, Vd	74.25 cm ³
Voice Coil Inductance, Le @ 1 kHz	0.6 mH

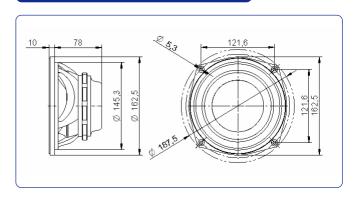
FREQUENCY RESPONSE AND DISTORTION



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



DIMENSION DRAWINGS

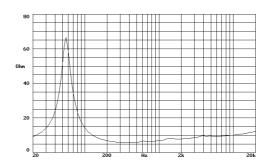


MOUNTING INFORMATION

Overall diameter	162.5 mm.	6.40 in.
Bolt circle diameter	172 mm.	6.77 in.
Baffle cutout diameter:		
- Front mount	145.3 mm.	5.72 in.
- Rear mount	145.3 mm.	5.72 in.
Depth	78 mm.	3.0 in.
Volume displaced by driver	0.55 l	0.02 ft.3
Net weight	1.9 kg.	4.18 lb.
Shipping weight	2.4 kg.	5.29 lb.

Notes:

FREE AIR IMPEDANCE CURVE



^{*}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 Xmax is calculated as (Lvc - Hag)/2 + Hag/3.5, where Lvc is the voice coil length and Hag is the air gap height.