beyma
PROFESSIONAL LOUDSPEAKERS

6P200/Nd

LOW FREQUENCY TRANSDUCER

KEY FEATURES

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

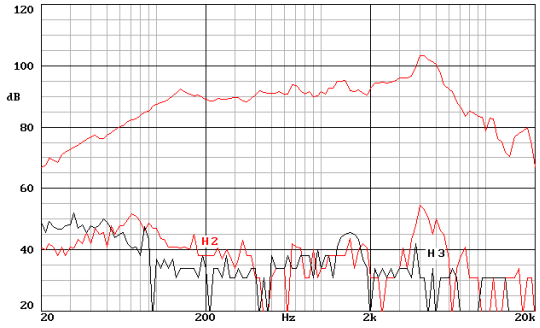
TECHNICAL SPECIFICATIONS

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
Sensitivity	92 dB 2.83v @ 1m @ 2π
Frequency range	60 - 9000 Hz
Recom. enclosure vol.	10 / 40 l 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 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

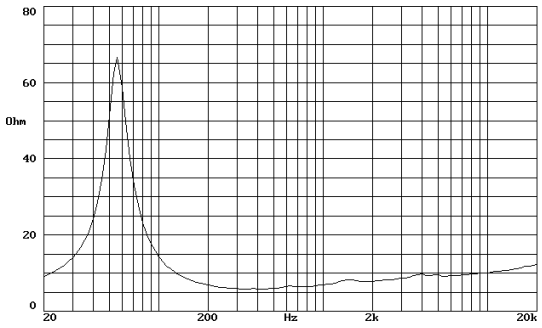
Resonant frequency, fs	56 Hz
D.C. Voice coil resistance, Re	5.3 ohms.
Mechanical Quality Factor, Qms	3.69
Electrical Quality Factor, Qes	0.32
Total Quality Factor, Qts	0.29
Equivalent Air Volume to Cms, Vas	11.9 l
Mechanical Compliance, Cms	468 µm / N
Mechanical Resistance, Rms	1.6 kg / s
Efficiency, ηo (%)	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 CURVES



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

FREE AIR IMPEDANCE CURVE



Notes:

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

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Polígono Industrial Moncada II · C/. Pont Sec, 1c · 46113 MONCADA - Valencia (Spain)
· Tel. (34) 96 130 13 75 · Fax (34) 96 130 15 07 · http://www.beyma.com · E-mail: beyma@beyma.com ·