beyma

10BR60V2
## LOW FREQUENCY TRANSDUCER

KEY FEATURES

- 100 W_{RMS} program handling
- Sensitivity: 90,6 dB @ 2,83 V @ 1 m
- 2" voice coil.
- Extended controlled displacement: X_{max} ± 6,5 mm
- Low frequency driver
- Ferrite magnet

TECHNICAL SPECIFICATIONS

Nominal diameter	250 mm	10 in
Rated impedance		8 Ω
Minimum impedance		8,3 Ω
Power capacity*		100 W_{RMS}
Program power		200 W
Sensitivity	90,6 dB 2,83v @ 1m	@ 2π
Frequency range		30 - 5.000 Hz
Recom. enclosure vol.	30 / 100 l	1,06 / 3,53 ft³
Voice coil diameter	51,7 mm	2 in
Magnetic assembly weight	2,75 kg	6,06 lb
Bl factor		10,6 N/A
Moving mass		0,048 kg
Voice coil length		16 mm
Air gap height		7 mm
X_{damage} (peak to peak)		31 mm

DIMENSION DRAWINGS

THIELE-SMALL PARAMETERS**

Resonant frequency, f_s	31 Hz
D.C. Voice coil resistance, R_e	6,5 Ω
Mechanical Quality Factor, Q_{ms}	3,29
Electrical Quality Factor, Q_{es}	0,55
Total Quality Factor, Q_{ts}	0,47
Equivalent Air Volume to C_{ms}, V_{as}	108,2 l
Mechanical Compliance, C_{ms}	536 μm / N
Mechanical Resistance, R_{ms}	2,89 kg / s
Efficiency, $η_0$	0,57 %
Effective Surface Area, S_d	0,038 m²
Maximum Displacement, X_{max} ***	6,5 mm
Displacement Volume, V_d	240 cm³
Voice Coil Inductance, L_e @ 1 kHz	1,5 mH
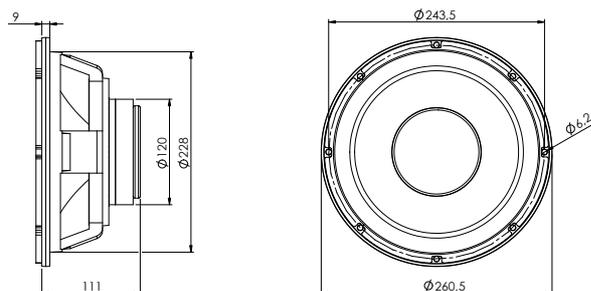
MOUNTING INFORMATION

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Overall diameter	260,5 mm	10,26 in
Bolt circle diameter	243,5 mm	9,59 in
Baffle cutout diameter:		
- Front mount	228 mm	8,98 in
- Rear mount	232 mm	9,13 in
Depth	120 mm	4,72 in
Volume displaced by driver	2,5 l	0,08 ft³
Net weight	2,87 kg	6,33 lb
Shipping weight	3,25 kg	7,17 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.

FREE AIR IMPEDANCE CURVE
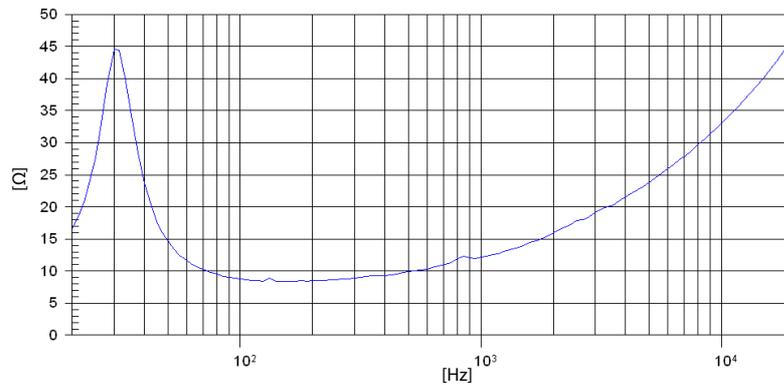
FREQUENCY RESPONSE AND DISTORTION
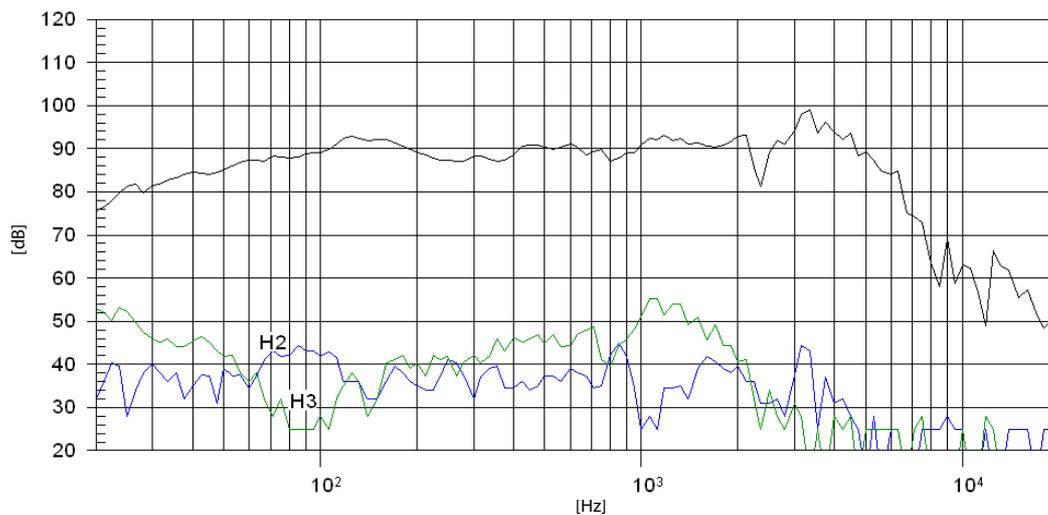
Note: On axis frequency response measured with loudspeaker
standing on infinite baffle in anechoic chamber, 1W @ 1m