beyma

PROFESSIONAL LOUDSPEAKERS
www.beyma.com

8M70-V2

LOW & MID FREQUENCY TRANSDUCER

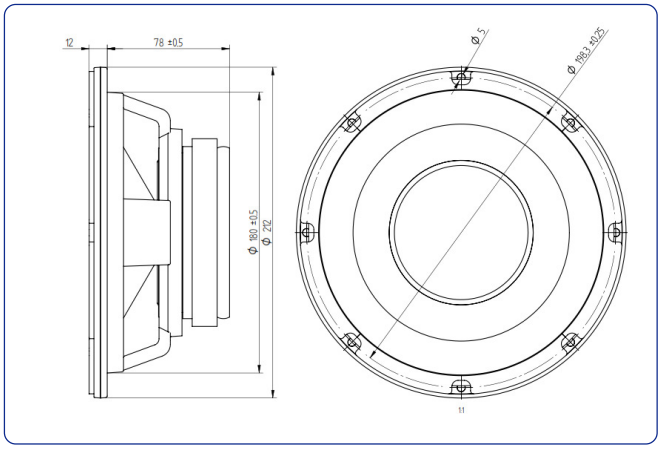
KEY FEATURES

- Excellent power handling (90 w RMS)
- Good sensitivity (95 dB)
- Smooth frequency response and low distortion
- Designed for the low and mid frequency

TECHNICAL SPECIFICATIONS

Nominal diameter	200 mm. 8 in.
Rated impedance	8 ohms
Minimum impedance	6.3 ohms
Power capacity*	90 w RMS
Program power	180 w
Sensitivity	95 dB 2.83v @ 1m @ 2π
Frequency range	120 - 9000 Hz
Recom. enclosure vol.	20 / 50 l 0.7 / 1.77 ft.^{3}
Voice coil diameter	38.5 mm. 1.5 in.
Magnetic assembly weight	2.75 kg. 4.18 lb.
BL factor	9.8 N / A
Moving mass	0.019 kg.
Voice coil length	6 mm
Air gap height	6 mm

DIMENSION DRAWINGS



THIELE-SMALL PARAMETERS**

Resonant frequency, fs	90 Hz
D.C. Voice coil resistance, Re	5.9 ohms
Mechanical Quality Factor, Qms	3.52
Electrical Quality Factor, Qes	0.76
Total Quality Factor, Qts	0.62
Equivalent Air Volume to Cms, Vas	10.54 l
Mechanical Compliance, Cms	156 μm / N
Mechanical Resistance, Rms	2.58 kg / s
Efficiency, ηo (%)	1.1
Effective Surface Area, Sd (m²)	0.022 m²
Maximum Displacement, Xmax* **	4.5 mm
Displacement Volume, Vd	100 cm³
Voice Coil Inductance, Le @ 1 kHz	0.9 mH

MOUNTING INFORMATION

Overall diameter	212 mm. 8.34 in.
Bolt circle diameter	198.3 mm. 7.80 in.
Baffle cutout diameter:	
- Front mount	180 mm. 7.08 in.
- Rear mount	190 mm. 7.48 in.
Depth	90 mm. 3.54 in.
Volume displaced by driver	1.5 l. 0.052 ft.^{3}
Net weight	2.33 kg. 5.13 lb.
Shipping weight	2.54 kg. 5.59 lb.

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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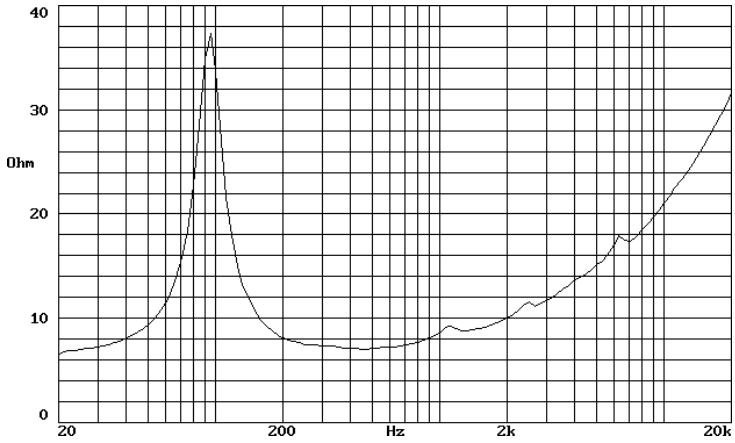
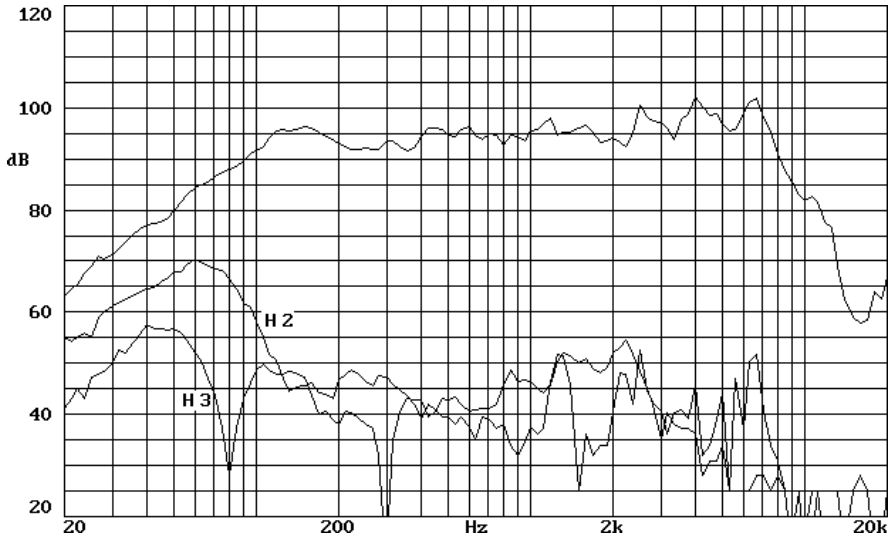
FREE AIR IMPEDANCE CURVE



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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