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PROFESSIONAL LOUDSPEAKERS
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8MI100

MID FREQUENCY TRANSDUCER

MI100 Series

KEY FEATURES

- High power handling: 500 W program power
- High sensitivity: 96 dB (1W / 1m)
- Low harmonic distortion
- 2” aluminium voice coil with polymide fiber glass former
- Designed for high quality mid-frequency reproduction





TECHNICAL SPECIFICATIONS

Nominal diameter	200 mm	8 in
Rated impedance		8 Ω
Minimum impedance		7,6 Ω
Power capacity [1]		250 W_{AES}
Program power [2]		500 W
Sensitivity	96 dB	1W / 1m @ Z_N
Frequency range		100 - 7.000 Hz
Voice coil diameter	50,8 mm	2 in
Bl factor		11,5 N/A
Moving mass		0,019 kg
Voice coil length		9 mm
Air gap height		7 mm

THIELE-SMALL PARAMETERS [3]

Resonant frequency, f_s	90 Hz
D.C. Voice coil resistance, R_e	6 Ω
Mechanical Quality Factor, Q_{ms}	7,5
Electrical Quality Factor, Q_{es}	0,48
Total Quality Factor, Q_{ts}	0,45
Equivalent Air Volume to C_{ms}, V_{as}	12 l
Mechanical Compliance, C_{ms}	175 µm / N
Mechanical Resistance, R_{ms}	1,4 kg / s
Efficiency, η_0	1,6 %
Effective Surface Area, S_d	0,022 m^2
Maximum Displacement, X_{max} [4]	3 mm
Displacement Volume, V_d	66 cm^3
Voice Coil Inductance, L_e	0,2 mH

Notes:

[1] The power capaticty is determined according to AES2-1984 (r2003) standard.

[2] Program power is defined as power capacity + 3 dB.

[3] 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).

[4] 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.

Acústica Beyma SL - P.I. Moncada II, C/ Pont Sec, 1C - 46113 Moncada, Valencia (Spain) - Tel. +34 96 130 13 75 - beyma@beyma.com

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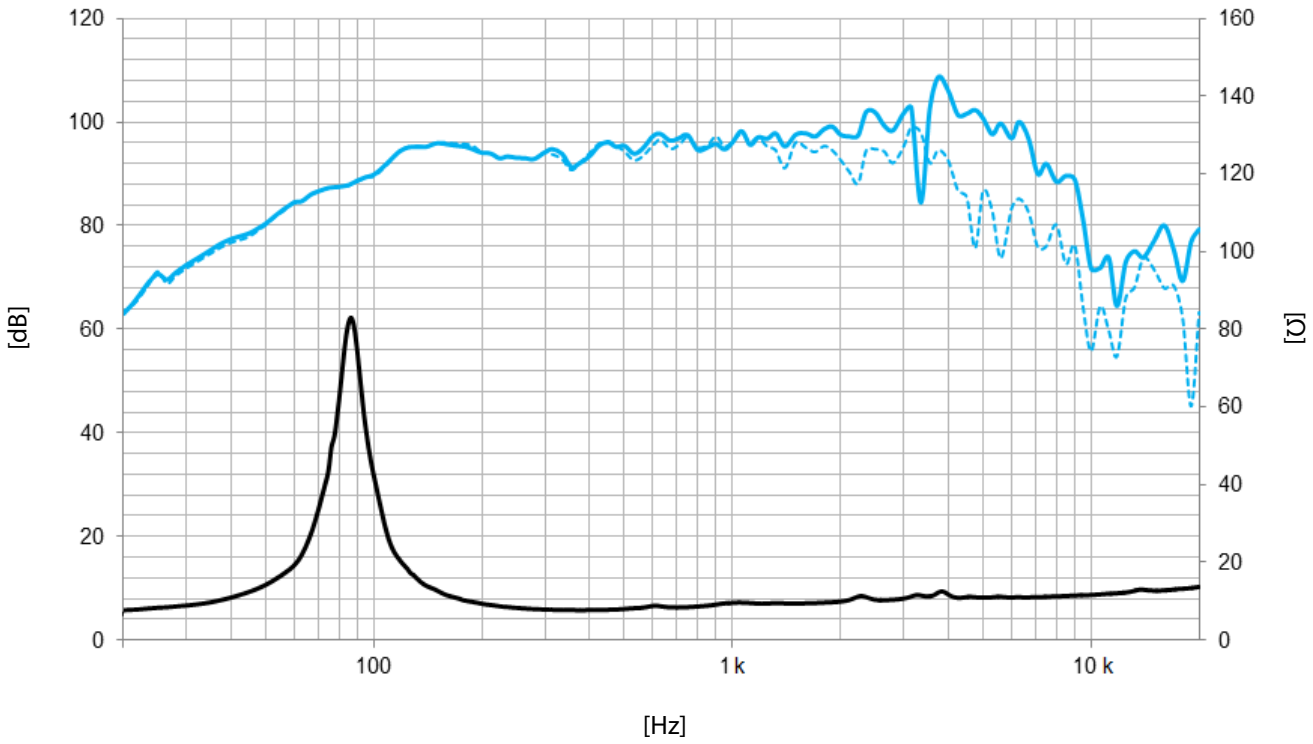
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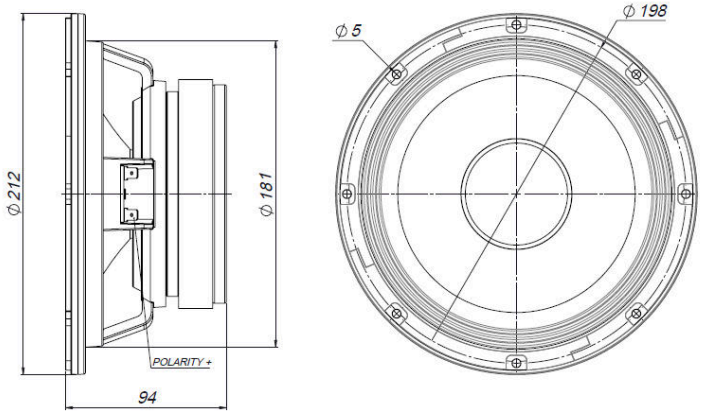
Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

Frequency response on axis
Frequency response 45º off axis

MOUNTING INFORMATION

Overall diameter	212 mm	8,3 in
Bolt circle diameter	198 mm	7,8 in
Baffle cutout diameter:		
- Front mount	181 mm	7,1 in
Depth	94 mm	3,7 in
Net weight	3,1 kg	6,9 lb
Shipping weight	3,2 kg	7,2 lb

DIMENSION DRAWING



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06/18