beyma))

PROFESSIONAL LOUDSPEAKERS
www.beyma.com

6MI90
## MID FREQUENCY TRANSDUCER
MI100 Series

KEY FEATURES

- High power handling (125 W_{AES})
- Good sensitivy (96 dB)
- Aluminium basket
- 1,5" copper voice coil
- Low harmonic distortion
- Designed for mid frequency applications
- Optimal for high quality sound reinforcement systems

TECHNICAL SPECIFICATIONS

Nominal diameter	165 mm	6,5 in
Rated impedance		8 Ω
Minimum impedance		6,3 Ω
Power capacity*		125 W_{AES}
Program power		250 W
Sensitivity	96 dB @ 1W	@ Z_N
Frequency range		140 - 8.000 Hz
Voice coil diameter	38,1 mm	1,5 in
Bl factor		11,3 N/A
Moving mass		0,011 kg
Voice coil length		7,5 mm
Air gap height		6 mm

DIMENSION DRAWINGS
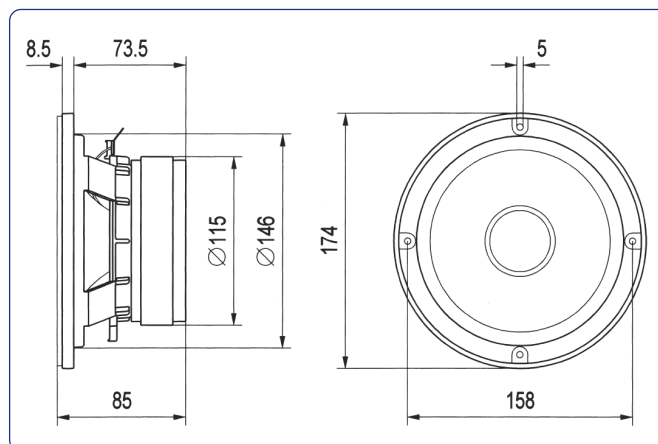
THIELE-SMALL PARAMETERS**

Resonant frequency, f_s	134 Hz
D.C. Voice coil resistance, R_e	5,7 Ω
Mechanical Quality Factor, Q_{ms}	8,4
Electrical Quality Factor, Q_{es}	0,44
Total Quality Factor, Q_{ts}	0,42
Equivalent Air Volume to C_{ms}, V_{as}	3,35 l
Mechanical Compliance, C_{ms}	121 μm / N
Mechanical Resistance, R_{ms}	1,16 kg / s
Efficiency, η_0	1,75 %
Effective Surface Area, S_d	0,014 m^2
Maximum Displacement, X_{max} ***	2,5 mm
Displacement Volume, V_d	35 cm^3
Voice Coil Inductance, L_e	0,4 mH

MOUNTING INFORMATION

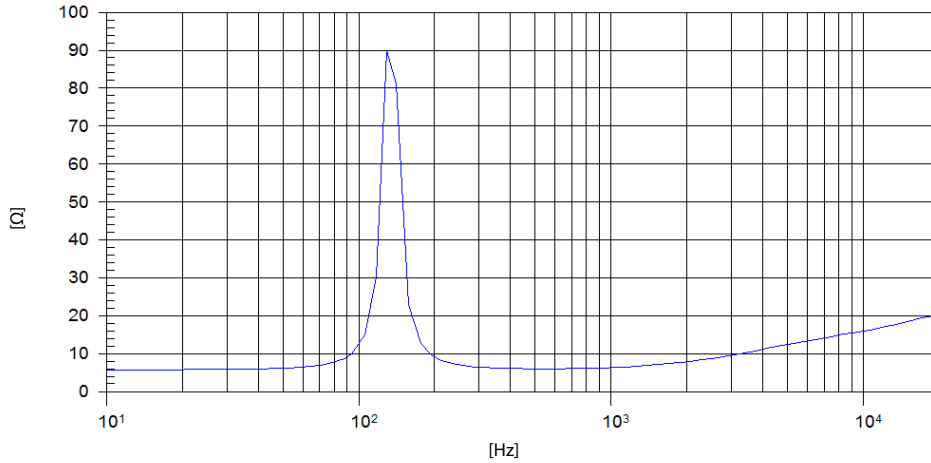|		
Overall diameter	174 mm	6,85 in
Bolt circle diameter	158 mm	6,22 in
Baffle cutout diameter:		
- Front mount	146 mm	5,75 in
Depth	85 mm	3,35 in
Net weight	2,2 kg	4,84 lb
Shipping weight	2,3 kg	5,05 lb

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.

beyma))

PROFESSIONAL LOUDSPEAKERS
www.beyma.com

6MI90
MID FREQUENCY TRANSDUCER
MI100 Series

FREE AIR IMPEDANCE CURVE

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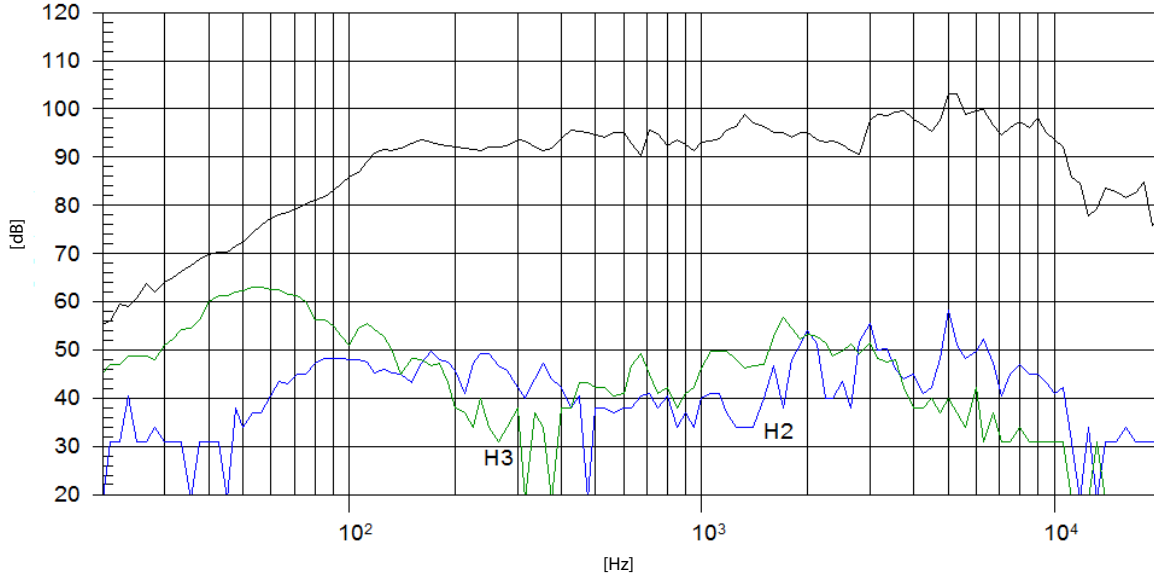
Note: On axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m