

beyma Low Frequency Transducer Instructions

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KEY FEATURES

- High sensitivity: 98 dB
- High power handling: 400 WAES

- 3" copper voice coil
- Optimum winding length for increased linear excursion.



- Extremely linear frequency response
- Extended response in the medium frequency range
- Low harmonic distortion
- High power woofer and midbass applications



TECHNICAL SPECIFICATIONS

Nominal diameter	380 mm 15 in	
Rated impedance	8 Ω	
Minimum impedance	7,2 Ω	
Power capacity ¹	400 W _{AES}	
Program power ²	800 W	
Sensitivity	98 dB 1W / 1m @ Z _N	
Frequency range	35 – 3.000 Hz	
Recom. enclosure	V _b = 75 I	
(Bass-reflex design)	_{Fb} = 48 Hz	
Voice coil diameter	76,2 mm 3 in	
BI factor	17,4 N/A	
Moving mass	0,086 kg	
Voice coil length	17,5 mm	
Air gap height	7 mm	
X _{damage} (peak to peak)	30 mm	

Notes:

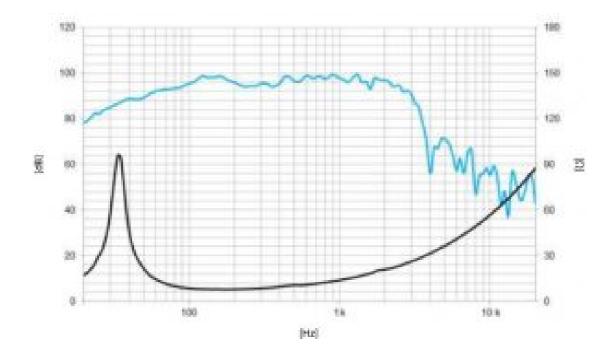
- 1. The power capaticty is determined according to AES2-1984 (r2003) standard.
- 2. Program power is defined as power capacity + 3 dB.
- 3. T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer 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.

THIELE-SMALL PARAMETERS³

Resonant frequency, f _s	35 Hz
D.C. Voice coil resistance, R _e	6,4 Ω
Mechanical Quality Factor, Q _{ms}	8,5
Electrical Quality Factor, Q _{es}	0,40
Total Quality Factor, Q _{ts}	0,38
Equivalent Air Volume to C _{ms} , V _{as}	267 l
Mechanical Compliance, C _{ms}	243 μm / N
Mechanical Resistance, R _{ms}	2,2 kg / s
Efficiency, η ₀	2,7 %
Effective Surface Area, S _d	0,088 m ²
Maximum Displacement, X _{max} ⁴	7,25 mm
Displacement Volume, V _d	638 cm ³
Voice Coil Inductance, Le	1,2 mH

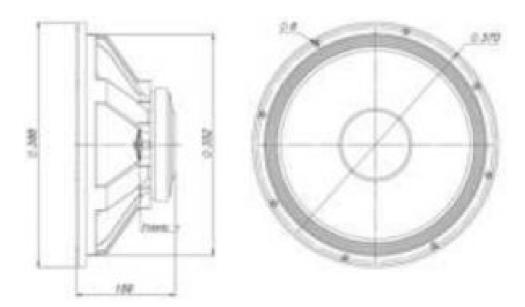


Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

MOUNTING INFORMATION

Overall diameter	388 mm	15,3 in
Bolt circle diameter	370 mm	14,6 in
Baffle cutout diameter:		
Baffle cutout diameter:	352 mm	13,9 in
Depth	156 mm	6,1 in
Net weight	6,5 kg	14,3 lb
Shipping weight	7,4 kg	16,3 lb

DIMENSION DRAWING



Documents / Resources



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References

• Macústica Beyma - Fabricante Altavoces Profesionales desde 1969

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