



TECHNICAL SPECIFICATIONS

Nominal diameter		300 mm. 12 in.
Rated impedance		8 ohms
Minimum impedance		6.7 ohms
Power capacity		500 w AES
Program power		1000 w
Sensitivity	97 dB	2.83v @ 1m @ 2π
Frequency range		35 - 4000 Hz
Recom. enclosure vol.	20 /	70 I 0.7 / 2.6 ft. ³
Voice coil diameter		77 mm. 3 in.
Magnetic assembly weight		6.3 kg. 13.9 lb.
BL factor		18.4 N / A
Moving mass		0.062 kg.
Voice coil length		17.5 mm
Air gap height		8 mm
X damage (peak to peak)		28 mm

MOUNTING INFORMATION

Overall diameter	312 mm.	12.3 in.
Bolt circle diameter	294.5 mm.	11.6 in.
Baffle cutout diameter:		
- Front mount	277.5 mm.	10.9 in.
- Rear mount	280 mm	n. 11 in.
Depth	139 mm.	5.47 in.
Volume displaced by driver	4	0.14 ft. ³
Net weight	7.1 kg.	15.6 lb.
Shipping weight	7.8 kg.	17.2 lb.

THIELE-SMALL PARAMETERS

44 Hz
6 ohms.
11.6
0.3
0.3
81 I
206 µm/N
1.5 kg/s
2.3
0.0530 m ²
5 mm
316 cm ³
2.1 mH

DIMENSION DRAWINGS



MATERIALS

- Voice coil: edgewound copper wire with high temperature bonding strength. Polyimide fiber glass former able to withstand high temperatures.
- Cone: paper cone capable to endure the most extreme conditions.
- **Surround:** treated cloth to assure good retaining of elasticity in despite of continuing use.
- Spider: treated cotton fibres.
- Metal parts: anti-corrosion coated back plate designed to resist aggressive environmental conditions.
- **Basket:** specially designed die cast aluminium basket to avoid disturbing resonances.
- Magnet: high Curie temperature ferrite.

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).



Polígono Industrial Moncada II · C/. Pont Sec, 1c · 46113 MONCADA - Valencia (Spain) · Tel. (34) 96 130 13 75 · Fax (34) 96 130 15 07 · http://www.beyma.com · E-mail: beyma@beyma.com ·





KEY FEATURES

- High power handling (500 W_{AES})
- 3" edgewound copper voice-coil with polyimide fiber glass former
- Optimum winding length for increased linear excursion
- Designed for woofer applications



GENERAL DESCRIPTION

This low frequency transducer is specially intended for the most demanding applications. Its design concept arises from the need of achieve a more resistant loudspeaker that matches the more and more power given by ultimate amplification systems. In order to accomplish that, almost every component of the speaker has been reconsidered: its voice coil has the benefits of an improved manufacturing process, made with the highest quality materials and the diaphragm has been carefully developed to give an extremely flat, smooth response. These characteristics make its integration in compact systems covering the low frequency range a straightforward task.

Moreover, its parameters has been optimized to obtain an excellent bass response when used in small bass-reflex cabinets.



Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.





Note: Bass-reflex cabinet, Vb=30 I, fb=45 Hz

REE AIR IMPEDANCE CURVE



OWER COMPRESSION LOSSES



Note: These losses are calculated from a five minutes AES power test applying band limited pink noise (25-1200 Hz). The loudspeaker is free-air standing.