



KEY FEATURES:

100 db 1W / 1m average sensitivity 77 mm high temperature aluminium voice coil 1000 W AES program power Powerful, vented 180 mm magnet structure Double aluminium demodulating ring for lower distortion and improved heat dissipation Double silicone spiders for improved excursion control and linearity

Application : Midbass

15MB500 is a high power 15" midbass loudspeaker, with very high efficiency and very good linearity. It features a 3" aluminum voice coil, 180 mm vented magnet structure, double silicone spider assembly, vented aluminium frame with integrated double aluminum demodulating ring that reduces distortions and improves cooling of the voice coil. **15MB500** is suitable for use in high power portable and fixed installation professional loudspeaker boxes.





SPECIFICATIONS

Flux Density

Magnet

THIELE-SMALL PARAMETERS

Nominal Diameter	15"/385 inch/mm	Resonance Frequency	41.50 Hz
Impedance	8 Ohm	Mechanical Efficiency Factor (Qms)	12.85
Minimum Impedance	6.27 Ohm	Electrical Efficiency Factor (Qes)	0.349
Power Capacity AES ¹	500 W	Total Q (Qts)	0.339
Program Power ²	1000 W	Equivalent Air Volume (Vas)	161.54 Litres
Sensitivity	(200-2000 Hz) 100 dB/W/m	Diaphragm mass ind. airload (Mms)	87.50 grams
Frequency Range	50 – 3000 Hz	Voice Coil Resistance Re	5.25 Ohms
Voice Coil Diameter	77 mm	Effective Diagram Area (Sd)	829.6 cm ²
Voice Coil Material	Aluminum	Peak Linear Displacement of Diaphragm (Xmax)*	± 7.75 mm
Voice Coil Former	Kapton™	Mechanical Compliance of Suspension (Cms)	0.168 mm/N
Voice Coil Winding Depth	21 mm	BL Product (BL)	18.54 T.m
Magnet Gap Depth	11 mm	V.C. Inductance at 1 kHz (Le)	0.92 mH
Cone Material	Paper with glassfiber		
Basket	Die Cast Aluminium		

MOUNTING INFORMATION

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 120 L box enclosure tuned 56 Hz using a 40-400 Hz band limited pink noise test signal applied continuously for 2 hours. 2. Program power is defined as 3db greater than AES Power Capacity.

Ferrite

1.20 T

* Linear Mathematical Xmax is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg is the gap depth.

Overall Diameter	388 mm	
Baffle Hole Diameter	354 mm	
Number of Mounting Holes	8 with dia. 7mm	
Bolt Circle Diameter	370/372 mm	
Overall Depth	169 mm	
Net Weight	7.8 kg	







Frequency Response





