

Ferrite Magnet Die-cast Chassis Driver



Features

- 3.9" Large Format Voice Coil
- 2000 Watts Peak Power Handling
- Active Balanced Cooling
- Ferrite Magnetics
- Precision Rectangular Ribbon Wire Geometry
- Die Cast Aluminum Chassis

Applications

The P Audio C12-500MB is a high performance wide bandwidth transducer. The C12-500MB is an upgraded design that features many of P Audio's new technologies and performance upgrades. The 12 inch (305mm) diameter piston will produce extremely high sound pressure levels in the mid band and upper mid frequencies and is ideal for high level response in both live sound and recorded music venues. The transducer uses high energy ferrite magnetics to achieve a very high acoustic output to weight ratio. The C12-500MB has been optimized for use in two way or three way sound reinforcement systems. The transducer is also ideal as a mid bass driver for ultra high performance system designs and has an operating bandwidth of 60Hz to 3000Hz.

The C12-500MB features a very large 3.9 inch (99.3mm) diameter voice coil that provides an AES rated 500 watts of continuous power handling and a full 2000 watts of peak rated power handling when sufficient amplifier headroom is available. The C12-500MB utilizes P Audio's Auto Balanced Cooling (ABC) technology to not only improve transducer power handling and reliability but to also increase power compression performance by carefully balancing and directing airflow to critical areas.

The voice coil design is a bobbin wound geometry with P Audio's ribbon rectangular wire technology to improve conversion efficiency and provide a large cross-sectional area for superior cooling.

The transducer chassis is a die cast aluminum design that insures a very high degree of structural integrity.

Specifications

General Specifications

Nominal diameter	
Power rating	500 W(AES)
Nominal impedance	
Sensitivity	95 dB
Frequency range	
Chassis type	Cast aluminum
Magnet type	Ferrite
Magnet weight	
Voice coil diameter	
Coil material	CCA-R
Former material	
Cone material	Paper
Surround material	Cloth
Suspension	
X-max	4.5 mm/0.18 in
Gap depth	8.0 mm/0.30 in
Voice coil winding width	16.9 mm/0.67 in
Net Weight	
Packing Dimension WxDxH	
Shipping Weight	
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Small Signal Parameters

Fs
Mms75.80 g/2.67 oz
Mmd
Qms
Qes
Qts
Vas
BI
Cms
Rms
Le (at 1kHz)0.31 mH
Sd.`552 cm2





