

**BM
SERIES**

15BM-500B V3

Ferrite Magnet Die-cast Chassis Driver

Features

- 3.2" Voice coil
- 1000 Watts Continuous program power capacity
- Ferrite magnetics
- Precision circular wire geometry
- Die cast aluminum chassis



The P.Audio 15BM-500B V3 NEW is a high output wide bandwidth transducer. The 15BM-300B V3 NEW is an upgraded design that features many of P.Audio's new technologies and performance upgrades. The 15 inch (381mm) diameter piston will produce extremely high sound pressure levels at both low and mid band frequencies and is ideal for high level response in both live sound and recorded music venues. The Transducer has a rated bandwidth of 45Hz to 3500Hz. The transducer uses high energy ferrite magnetics to achieve a very high acoustic output to weight ratio. The 15BM-500B V3 NEW has been optimized for use in two way or three way sound reinforcement systems.

The 15BM-500B V3 NEW employs a medium format 3.2 inch (82.5mm) diameter voice coil that provides an AES rated 500 watts of continuous power handling and a full 2000 watt of peak rated power handling when sufficient amplifier headroom is available. The 15BM-500B V3 NEW 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 precision circular wire technology to insure high conversion efficiency. The P.Audio circular wire technology and inside/outside winding configuration provides a very large cross-sectional area that substantially improves system cooling and reduces power compression.

The system suspension has been designed specifically for high linear displacement and extended low frequency response. The 15BM-500B V3 NEW also features a single spider configuration that provides system reliability and mechanical control.

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

General Specifications

Nominal Diameter	381 mm (15 in)
Nominal Impedance	8 Ω
Nominal Power Handling	500 W(AES)
Continuous Program Power Capacity	1000 W
Sensitivity	97 dB
Frequency Range	45-3500 Hz
Voice Coil Diameter	82.5 mm (3.25 in)
Voice Coil Material	CCA-W
Former Material	Glass fiber
Effective Piston Diameter	331.6 mm (13.0 in)
Flux Density	1.1T

Physical Information

Magnet Material	Ferrite
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton (Single)
Gasket	EVA
Pole Design	T-Pole
Woofer Cone Treatment	No Treatment

Parameters

Fs	41 Hz	Vas	183.44 lt
Re	5.5 Ω	Sd	855.3 cm ²
Qms	4.21	Le	0.43 mH
Qes	0.41	Eff (η_o)	2.79%
Qts	0.37	Cms	1.7 e-04 m/N
BL	17.76 Tm	Xmax	4.8 mm
Mms	90.00 g	Hag	10.0 mm
Mmd	74.95 g	Hvc	19.6 mm

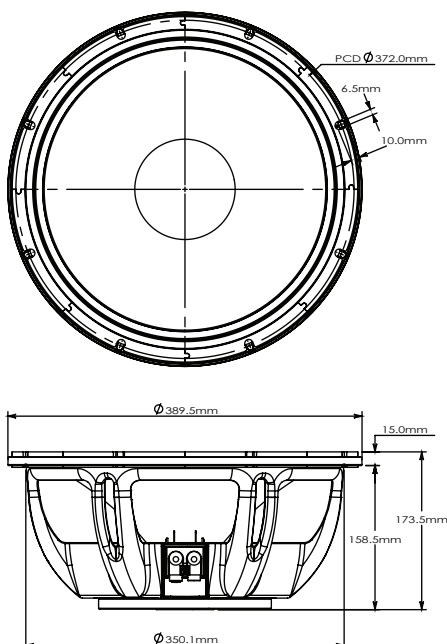
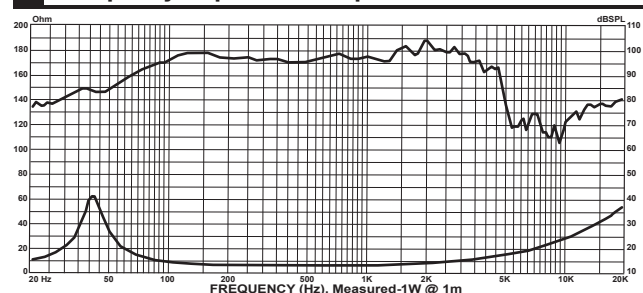
Mounting and Shipping Info

Diameter	391.5 mm (15.4 in)
Baffle Cutout Diameter	353.4 mm (13.9 in)
Mounting Hole Diameter	372 mm (14.6 in)
Bolt Circle Diameter	8 x \varnothing 6.5 mm
Depth	157.7mm (6.2 in)
Flange and Gasket Thickness	15.5 mm (0.61 in)
Net Weight	10.2 kg
Shipping Units	1
Shipping Weight	11.3 kg
Shipping Box	430 x 430 x 220 mm

Recone Kit

F05031513401PAA

Frequency response and Impedance curve



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