BM SERIES

15BM-450B

Ferrite Magnet Die-cast Chassis Driver

Features

- 3” Voice Coil
- 900 Watts Continuous Program Power Capacity
- Ferrite Magnetics
- Precision Circular Wire Geometry
- Die Cast Aluminum Chassis

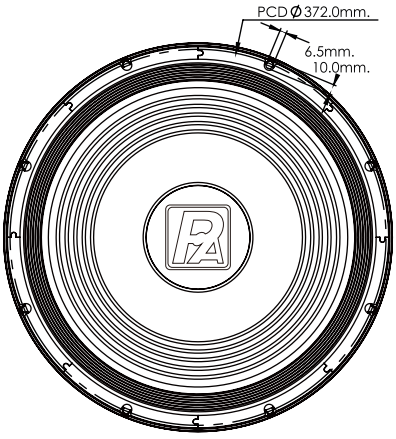
The P.Audio 15BM-450B is a high output wide bandwidth transducer. The 15BM-450B is an upgraded design that features many of P.Audio’s new technologies and performance upgrades. The 15 inch (381mm) diameter piston will produce extremely high sound pressure levels at both low and mid band frequencies and is ideal for high level response in both live sound and recorded music venues. The Transducer has a rated bandwidth of 50Hz to 4000Hz. The transducer uses high energy ferrite magnetics to achieve a very high acoustic output to weight ratio. The 15BM-450B has been optimized for use in two way or three way sound reinforcement systems.

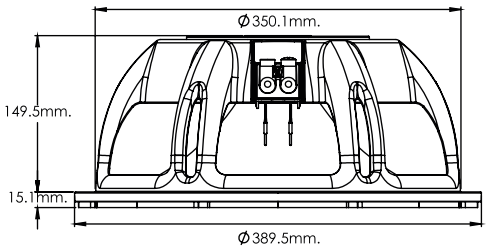
The 15BM-450B employs a medium format 3 inch (76.2mm) diameter voice coil that provides an AES rated 450 watts of continuous power handling and a full 1800 watt of peak rated power handling when sufficient amplifier headroom is available. The 15BM-450B utilizes P.Audio’s Auto Balanced Cooling (ABC) technology 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 would geometry with P.Audio’s precision circular wire technology to insure high conversion efficiency.

The system suspension has been designed specifically for high linear displacement and extended low frequency response. The 15BM-450B 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	450 W(AES)
Continuous Program Power Capacity	900 W
Sensitivity	97 dB
Frequency Range	50-4000 Hz
Voice Coil Diameter	76.2 mm (3.0 in)
Voice Coil Material	Copper
Former Material	Kapton
Effective Piston Diameter	335 mm (13.2 in)
Flux Density	1.2T

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

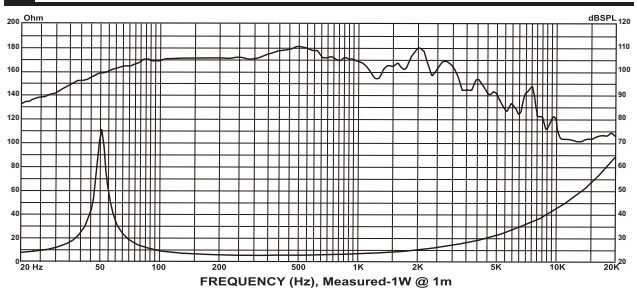
Fs	50 Hz	Vas	120.5 lt
Re	5.4 Ω	Sd	855 cm2
Qms	11.64	Le	0.71 mH
Qes	0.45	Eff (η)	2.9%
Qts	0.44	Cms	0.112 mm/N
BL	19.19 Tm	Xmax	4.7 mm
Mms	89.8 g	Hag	9.0 mm
Mmd	75.4 g	Hvc	18.5 mm

Mounting and Shipping Info

Diameter	389.5 mm (15.3 in)
Baffle Cutout Diameter	351.0 mm (13.8 in)
Mounting Hole Diameter	372 mm (14.6 in)
Bolt Circle Diameter	8 x Ø10x6.5 mm
Depth	149.5mm (5.9 in)
Flange and Gasket Thickness	15.1 mm (0.59 in)
Net Weight	8 kg
Shipping Units	1
Shipping Weight	9 kg
Shipping Box	430 x 430 x 220 mm

Recone Kit N/A

Frequency response and Impedance curve



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