



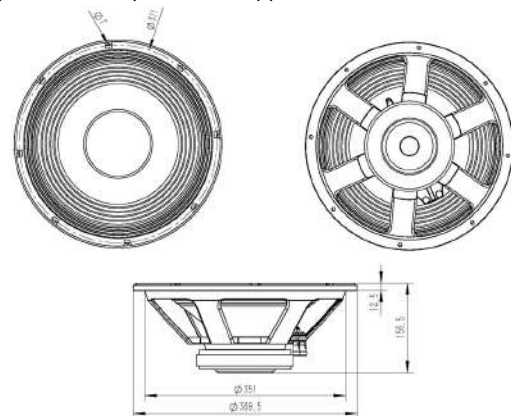
Applications

PF-1503B

The PF-1503B has been designed specifically for both direct radiator and horn loaded mid bass applications. This PF Series design has been optimized for use in the critical 50Hz to 3000Hz vocal range and is an ideal choice for professional level three way designs. A typical 12 inch design must offer both good bandwidth, down to 60Hz, and good efficiency. The PF-1503B has all of its performance designed into the 125Hz and above range. This means that the efficiency can be optimized for this frequency range. High efficiency means that lower electrical power levels are required, thus improving both system reliability and reducing power compression.

The PF-1503B is a 15 inch (389mm) diameter design that employs very high energy product Neodymium magnetics to provide extremely high conversion efficiency. The medium format 3 inch (76.2mm) voice coil design is an edge wound rectangular aluminum design to further maximize efficiency. Because weight is critical for portable systems or flown/suspended designs, the PF-1503B features a die cast aluminum chassis as well as the Ferrite magnet structure. The performance parameters of the PF-1503B are optimized for professional level mid bass designs. If full range designs are specified the PF-1503B should be utilized.

P Audio features state of the art design and manufacturing that insure the PF-1503B will provide very high power handling and reliability in high performance professional applications.



Specifications

GENERAL SPECIFICATIONS

Nominal Impedance	8 Ω
Power	700 Watt (rms)
SPL 1W@1M average sensitivity	97 dB
Frequency Response	50Hz - 3000Hz
Dimension \varnothing x H (cm)	38.9 x 15.6
Net Weight	5.44 kg (11.97bs)
Shipping Weight	6.60 kg (14.52 lbs)
Packing Dimension H x W x D (cm)	44 x 44 x 21cm
	17.3" x 17.3" x 8.3"

PHYSICAL SPECIFICATIONS

Magnet type	Ferrite
Voice Coil Diameter	76.2 mm (3 inch)

THIELE/SMALL PARAMETERS

Resonance Frequency	Fs	45 Hz
DC. Resistance	Re	5.3 Ω
Coil Inductance	Le	0.67 mH
Mechanical Q Factor	Qms	2.86
Electrical Q Factor	Qes	0.64
Total Q Factor	Qts	0.524
BL Product	BL	13.9 Tm
Effective Moving Mass	Mms	75.08 g
Equivalent Cas Air-Load	Vas	142.65 Liters
Effective Piston Area	Sd	0.085 Sqm
Half-Space Efficiency	Eff	2.622 %
Airgap Height	Hag	8.0 mm
Voice Coil Height	Hvc	16.0 mm
Voice Coil Overhang	Xmax	4.0 mm

SPL vs Freq

