

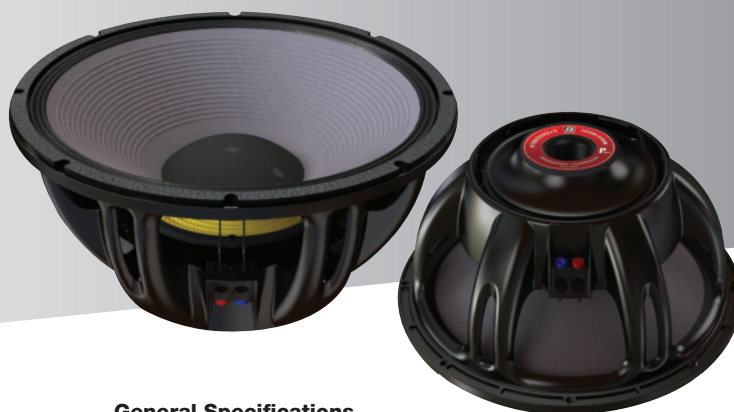
P
SERIES

P180/2242 v3

Ferrite Magnet Die-cast Chassis Driver

Features

- 2400 W continuous program power capacity
- 99.3 mm (3.9 inch) voice coil
- 40 - 1000 Hz response
- 95 dB sensitivity
- Ferrite magnet



The P Audio P180/2242 V3 is a high output low frequency transducer designed with a vintage voicing. The P180/2242 V3 is an upgraded design that features many of P Audio's new technologies and performance upgrades. The 18 inch (457mm) diameter piston will produce extremely high sound pressure levels at very low frequencies and is ideal for high level deep bass and sub woofer 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 P180/2242 V3 employs a large 3.9 inch (99.3mm) diameter voice coil and has been upgraded to an AES rated 1200 watts of continuous power handling and a full 4800 watts of peak rated power handling when sufficient amplifier headroom is available. The P180/2242 V3 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 rectangular wire technology to improve conversion efficiency and provide a large cross sectional area for superior cooling.

The transducer employs magnetic flux demodulation devices in the structure to increase fidelity and sonic accuracy. The system suspension has been designed specifically for high linear displacement and extended low frequency response. The double spider design further enhances system mechanical control and reliability.

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

General Specifications

Nominal Diameter	457 mm (18 in)
Nominal Impedance	8 Ω
Nominal Power Handling	1200 W(AES)
Continuous Program Power Capacity	2400 W
Sensitivity	95 dB
Frequency Range	40-1000 Hz
Voice Coil Diameter	99.3 mm (3.9 in)
Voice Coil Material	Flat aluminium wire
Former Material	Glass fiber
Effective Piston Diameter	405.2 mm (16.0 in)
Flux Density	1.0T

Physical Information

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

Parameters

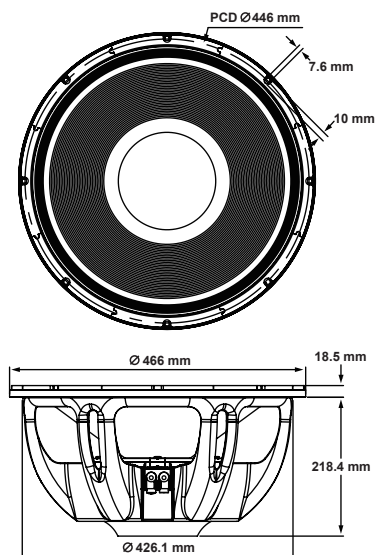
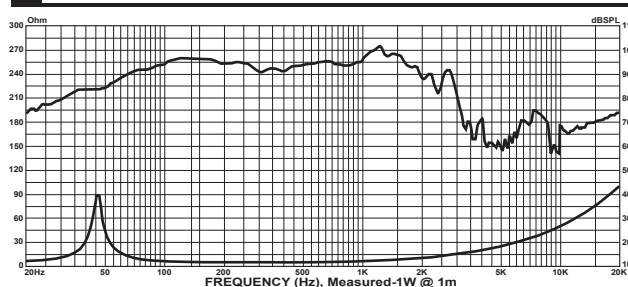
Fs	46 Hz	Vas	131.441 lt
Re	5.6 Ω	Sd	1225 cm ²
Qms	7.406	Le	0.97 mH
Qes	0.749	Eff (η ₀)	1.75%
Qts	0.68	Cms	6.1 e-05 m/N
BL	20.2 Tm	Xmax	6.8 mm
Mms	1.86.73 g	Hag	12.0 mm
Mmd	162.08 g	Hvc	25.5 mm

Mounting and Shipping Info

Diameter	466.0 mm (18.3in)
Baffle Cutout Diameter	426.1 mm (16.8 in)
Mounting Hole Diameter	446.0 mm (17.6 in)
Bolt Circle Diameter	8 x Ø (7.6x10) mm
Depth	218.4 mm (8.6 in)
Flange and Gasket Thickness	18.5 mm (0.72 in)
Net Weight	15.5 kg
Shipping Units	1
Shipping Weight	17.2 kg
Shipping Box	500 x 500 x 302 mm

Recone Kit F05031813501PAA

Frequency response and Impedance curve



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