SINCE 1991

P™ Series

P180/2241

Ferrite Magnet Die-cast Chassis Driver

Features

- High Acoustic Output
- Very Low Frequency Performance
- 4000 Watts Peak Power Handling
- Large Format 4 Inch (99.3mm) Voice Coil
- Professional Die Cast Aluminum Chassis
- Precision Rectangular Wire Coil

Applications

The P Audio P180-2241 is a high output low frequency transducer designed with a vintage voicing. The P180-2241 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 P180-2241 employs a large 4 inch (99.3mm) diameter voice coil and has been upgraded to an AES rated 1000 watts of continuous power handling and a full 4000 watts of peak rated power handling when sufficient amplifier headroom is available. The P180-2241 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 wound rectangular wire technology to improve conversion efficiency and provide a large cross-sectional area for superior cooling.

The system suspension has been designed to extend linear displacement and maintain excellent mechanical control. The double spider design further enhances system mechanical control and reliability. The cone has been treated with a conformal coating designed to provide additional mechanical damping and moisture resistance.

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

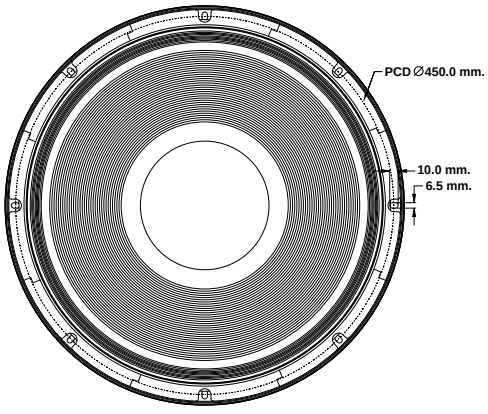
Specifications

General Specifications

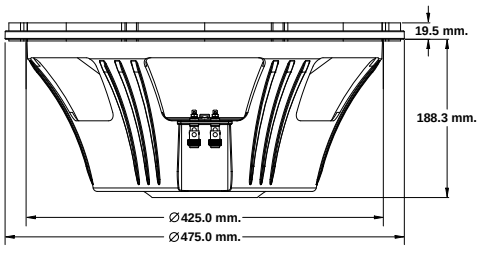
Nominal diameter	457 mm/18 in
Power rating	1000 W*(AES)*
Nominal impedance	8Ω
Sensitivity	97 dB
Frequency range	30-500 Hz
Chassis type	Cast aluminum
Magnet type	Ferrite
Magnet weight	2.85 kg/100.6 oz
Voice coil diameter	99.3 mm/3.9 in
Coil material	CCA-R
Former material	Glass fiber
Cone material	Paper
Surround material	Cloth
Suspension	Double
X-max	6 mm/0.24 in
Gap depth	8 mm/0.31 in
Voice coil winding width	20 mm/0.79 in
Net Weight	12.0 kg/26.5 lb
Packing Dimension WxDxH	505 x 505 x 260 mm
Shipping Weight	14.0 kg/30.9 lb

Small Signal Parameters

Re	5.7Ω
Fs	40 Hz
Mms	157.52 g/5.56 oz
Mmd	130.94 g/4.62 oz
Qms	6.00
Qes	0.72
Qts	0.59
Vas	232.91 lt/8.23 ft³
Bl	17.83 Tm
Cms	1.0e-04 m/N
Rms	6.60 Ns/m
Le (at 1kHz)	0.36 mH
Sd	1288 cm2



TOP VIEW



SIDE VIEW

Frequency Response and Impedance Curves