

**Ferrite Magnet Die-cast Chassis Driver**



**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.....	6.75 mm/0.27 in
Gap depth.....	13.9 mm/0.54 in
Voice coil winding width.....	25.5 mm/1.0 in
Net Weight.....	15.9 kg/35.1 lb
Packing Dimension WxDxH.....	505 x 505 x 270 mm
Shipping Weight.....	15.9 kg/33.7 lb

**Small Signal Parameters**

Re.....	5.7Ω
Fs.....	37 Hz
Mms.....	185.81 g/6.55 oz
Mmd.....	159.23 g/5.62 oz
Qms.....	6.33
Qes.....	0.51
Qts.....	0.48
Vas.....	231.72 lt/8.18 ft <sup>3</sup>
Bl.....	22.0 Tm
Cms.....	9.5e-05 m/N
Rms.....	6.82 Ns/m
Le (at 1kHz).....	0.64 mH
Sd.....	1288 cm <sup>2</sup>

**Features**

- 3.9" Large Format Voice Coil
- 4000 Watts Peak Power Handling
- Active Balanced Cooling
- Integrated Demodulation Rings
- Double Spider Design
- Ferrite Magnetics
- Precision Rectangular Ribbon Wire Geometry
- Die Cast Aluminum Chassis

**Applications**

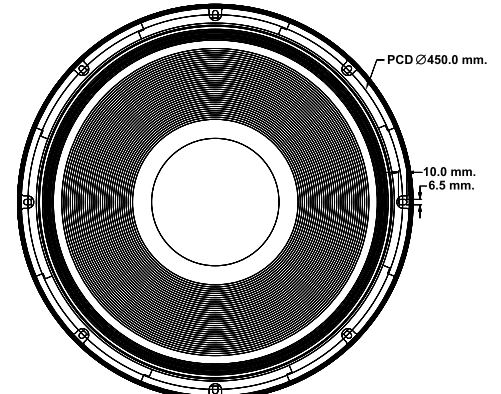
The P Audio P180/2242 is a high output low frequency transducer designed with a vintage voicing. The P180/2242 is an upgraded design that features many of P Audio's new technologies and performance upgrades. The 18 inch (457mm) diameter piston will produce extremely high sound pressure levels at very 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 employs a large 3.9 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 P180/2242 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.

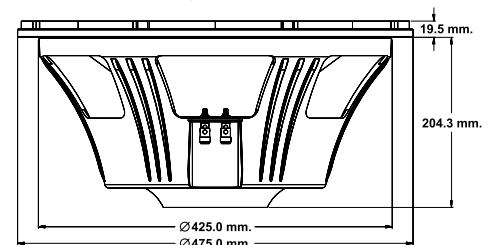
The voice coil design is a bobbin wound geometry with P Audio's rectangular wire technology to improve conversion efficiency and provide a large cross-sectional area for superior cooling.

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.



TOP VIEW



SIDE VIEW

**Frequency Response and Impedance Curves**

