



Features

- 4" Very Large Format Voice Coil
- Active Balanced Cooling
- Ferrite Magnetics
- Precision Rectangular Ribbon Wire
- Double Spider Suspension
- Integrated Demodulation Rings
- Die Cast Aluminum Chassis

Applications

The P.Audio P180/2248 is a high output low frequency transducer designed with a vintage voicing. The P180/2248 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 P180/2248 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 P180/2248 utilizes P.Audio' 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 crosssectional 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.

Specifications

General Specifications

Nominal diameter.....	457 mm/18 in
Power rating.....	1200 W(AES)
Nominal impedance.....	.8Ω
Sensitivity.....	98 dB
Frequency range.....	30-500 Hz
Chassis type.....	Cast Aluminum
Magnet type.....	Ferrite
Magnet weight.....	3.56 kg/125.7 oz
Voice coil diameter.....	99.3 mm/3.9 in
Coil material.....	CCA-R
Former material.....	Glass fiber
Cone material.....	Paper
Surround material.....	Cloth
X-max.....	4.75 mm
Gap depth.....	15.5 mm

Thiele Small Parameters

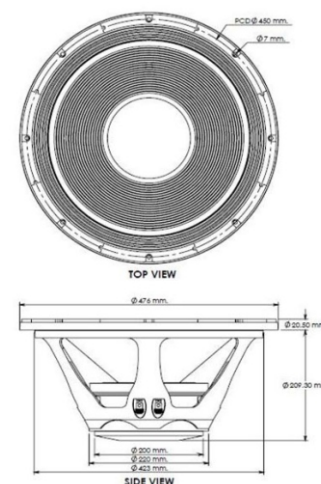
FS.....	40Hz
Re.....	5.6Ω
Qms.....	14.09
Qes.....	0.48
Qts.....	0.47
Mms.....	201.89 g
Mmd.....	177.24 g
Vas.....	165.27 lt
Sd.....	1225 cm ²
Bl.....	24.22 Tm
Cms.....	7.9 e-05 m/N
Rms.....	3.62 Ns/m
Le (at 1kHz).....	0.86 mH

Packing Dimensions

WxDxH (mm).....	505 x 505 x 280
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Weight

Shipping Weight.....	16.7 kg
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Frequency Response & Impedance Curve

