

Neodymium Magnet Die-cast Chassis Driver



Specifications

General Specifications

Nominal diameter.....	203 mm/8 in
Power rating.....	250 W(AES)
Nominal impedance.....	8Ω
Sensitivity.....	98 dB
Frequency range.....	80-3000 Hz
Chassis type.....	Cast aluminum
Magnet type.....	Neodymium
Magnet weight.....	0.33 kg/11.5 oz
Voice coil diameter.....	60.5 mm/2.38 in
Coil material.....	CCA-R
Former material.....	Kapton
Cone material.....	Paper
Surround material.....	Cloth
Suspension.....	Single
X-max.....	4 mm/0.16 in
Gap depth.....	7 mm/0.28 in
Voice coil winding width.....	15 mm/0.59 in
Net Weight.....	3.2 kg/7.1 lb
Packing Dimension WxDxH (mm)	225mm x 225mm x 125mm
Shipping Weight.....	3.4 kg/7.5 lb

Small Signal Parameters

Re.....	5.7Ω
Fs.....	79 Hz
Mms.....	20.86 g/0.74 oz
Mmd.....	18.90 g/0.67 oz
Qms.....	4.38
Qes.....	0.19
Qts.....	0.19
Vas.....	14.09 lt/0.5 ft ³
Bl.....	17.47 Tm
Cms.....	2.0e-04 m/N
Rms.....	2.36 Ns/m
Le (at 1kHz).....	0.263 mH

Features

- 2.38" Voice Coil
- 1000 Watts Peak Power Handling
- Neodymium Magnetics
- Precision Rectangular Ribbon Wire Geometry
- Die Cast Aluminum Chassis

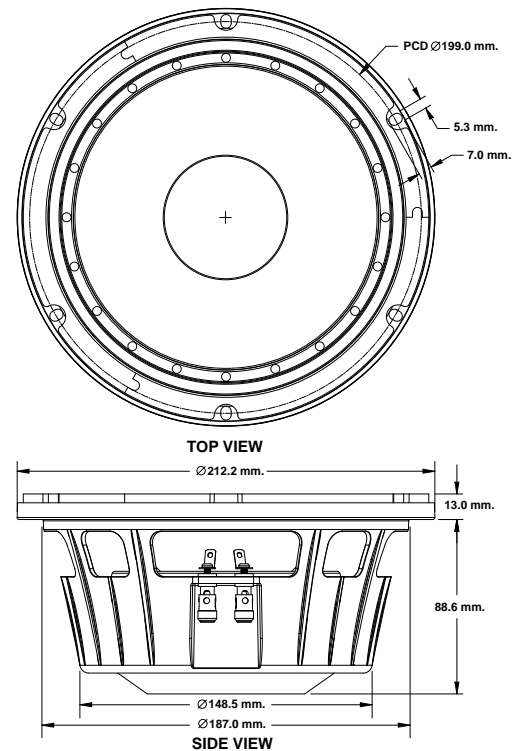
Applications

The P Audio SN8-250N is a high performance wide bandwidth transducer optimized for use in mid bass frequencies. The SN8-250N is an upgraded design that features many of P Audio's new technologies and performance upgrades. The 8 inch (203mm) diameter piston will produce extremely high sound pressure levels at both low and mid band frequencies and is ideal for high level response in both live sound and recorded music venues. The transducer uses very high energy neodymium magnetics to achieve a very high acoustic output to weight ratio. The SN8-250N has been optimized for use in two way or three way sound reinforcement systems and has an operating range of 80Hz to 3000Hz.

The SN8-250N features a 2.38 inch (60.5mm) diameter voice coil that provides an AES rated 250 watts of continuous power handling and a full 1000 watts of peak rated power handling when sufficient amplifier headroom is available. The SN8-250N 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 edge wound rectangular wire technology to improve conversion efficiency and provide a large cross-sectional area for superior cooling.

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



Frequency Response and Impedance Curves

