

Ferrite Magnet Die-cast Chassis Driver



Specifications

General Specifications

| | |
|-------------------------------|-----------------------|
| Nominal diameter..... | 254 mm/10 in |
| Power rating..... | 300 W(AES) |
| Nominal impedance..... | 8Ω |
| Sensitivity..... | 96 dB |
| Frequency range..... | 50-5000 Hz |
| Chassis type..... | Cast aluminum |
| Magnet type..... | Ferrite |
| Magnet weight..... | 2.0 kg/71.1 oz |
| Voice coil diameter..... | 63.7 mm/2.5 in |
| Coil material..... | CCA-R |
| Former material..... | Kapton |
| Cone material..... | Paper |
| Surround material..... | Cloth |
| Suspension..... | Single |
| X-max..... | 2.5 mm/0.09 in |
| Gap depth..... | 10 mm/0.39 in |
| Voice coil winding width..... | 15 mm/0.59 in |
| Net Weight..... | 6.5 kg/14.3 lb |
| Packing Dimension WxDxH..... | 280mm x 280mm x 145mm |
| Shipping Weight..... | 7.3 kg/16.1 lb |

Small Signal Parameters

| | |
|-------------------|-------------------------------|
| Re..... | 5.7Ω |
| Fs..... | 62 Hz |
| Mms..... | 37.08 g/1.31 oz |
| Mmd..... | 29.67 g/1.05 oz |
| Qms..... | 4.90 |
| Qes..... | 0.30 |
| Qts..... | 0.28 |
| Vas..... | 29.99 lt/1.06 ft ³ |
| Bl..... | 16.73 Tm |
| Cms..... | 1.8e-04 m/N |
| Rms..... | 2.96 Ns/m |
| Le (at 1kHz)..... | 0.39 mH |
| Sd..... | 346 cm ² |

Features

- 2.5" Voice Coil
- 1200 Watts Peak Power Handling
- Ferrite Magnetics
- Precision Rectangular Ribbon Wire Geometry
- Die Cast Aluminum Chassis

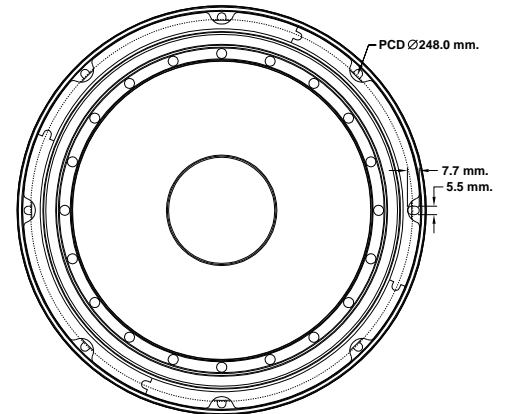
Applications

The P Audio SN10-300MBF is a high performance wide bandwidth transducer optimized for use in mid bass frequencies. The SN10-300MBF is an upgraded design that features many of P Audio's new technologies and performance upgrades. The 10 inch (254mm) 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 high energy ferrite based magnetics to achieve a very high acoustic output to weight ratio. The SN10-300MBF has been optimized for use in two way or three way sound reinforcement systems and has an operating range of 50Hz to 5000Hz.

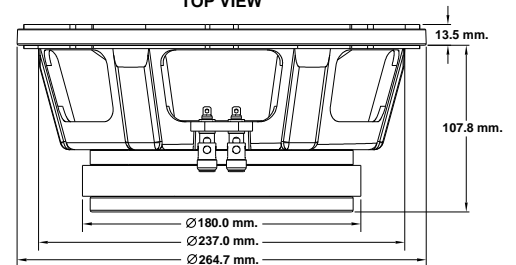
The SN10-300MBF features a large 2.5 inch (63.7mm) diameter voice coil that provides an AES rated 300 watts of continuous power handling and a full 1200 watts of peak rated power handling when sufficient amplifier head-room is available. The SN10-300MBF utilizes P Audio's Auto Balanced Cooling (ABC) 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.



TOP VIEW



SIDE VIEW

Frequency Response and Impedance Curves

