

Ferrite Magnet Steel Chassis Driver



Specifications

General Specifications

Nominal diameter.....	305 mm/12 in
Power rating.....	200 W(AES)
Nominal impedance.....	.8Ω
Sensitivity.....	95 dB
Frequency range.....	50-3500 Hz
Chassis type.....	Heavy Duty Stamp Steel
Magnet type.....	Ferrite
Magnet weight.....	1.4 kg/49.4 oz
Voice coil diameter.....	63.7 mm/2.5 in
Coil material.....	CCA-W
Former material.....	Glass fiber
Cone material.....	Paper
Surround material.....	Cloth
Suspension.....	Single
X-max.....	4.1 mm/0.161 in
Gap depth.....	.8 mm/0.3 in
Voice coil winding width.....	16.2 mm/0.64 in
Net Weight.....	4.6 kg/10.8 lb
Packing Dimension WxDxH.....	330 x 330 x 180 mm
Shipping Weight.....	5.2 kg/11.5 lb

Small Signal Parameters

Re.....	5.8 Ω
Fs.....	59 Hz
Mms.....	.47.4 g/1.67 oz
Mmd.....	40.37 g/1.42 oz
Qms.....	5.83
Qes.....	0.63
Qts.....	0.57
Vas.....	61.97 lt/2.19 ft ³
Bl.....	12.66 Tm
Cms.....	1.6e-04 m/N
Rms.....	2.96 Ns/m
Le (at 1kHz).....	0.427 mH
Sd.....	531 cm ²

Features

- 2.5" Voice Coil
- 800 Watts Peak Power Handling
- Ferrite Magnetics
- Precision Circular Wire Geometry
- Stamped Steel Chassis

Applications

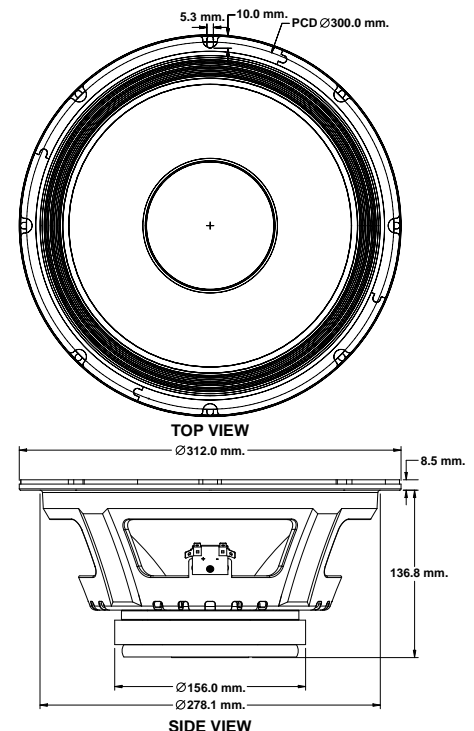
The P Audio E12-200S is a high output low frequency transducer. The E12-200S is an upgraded design that features many of P Audio's new technologies and performance upgrades. The 12 inch (305mm) diameter piston will produce extremely high sound pressure levels at low frequencies and is ideal for high level full range response in both live sound and recorded music venues. The operating bandwidth of the E12-200S is 50Hz to 3500Hz. The transducer uses high energy ferrite magnetics to achieve a very high acoustic output to weight ratio.

The E12-200S employs a medium format 2.5 inch (63.7mm) diameter voice coil that provides an AES rated 200 watts of continuous power handling and a full 800 watts of peak rated power handling when sufficient amplifier headroom is available. The E12-200S utilizes P Audio's under damper venting technology to improve transducer air flow and reduce turbulence under the damper and around the voice coil.

The voice coil design is a bobbin wound geometry with P Audio's precision round wire technology to maximize system conversion efficiency.

The suspension has been designed specifically for high linear displacement and extended low frequency response.

The transducer chassis is a heavy gauge stamped steel design that insures a very high degree of structural integrity.



Frequency Response and Impedance Curves

