

Ferrite Magnet Steel Chassis Driver



Features

- 1.5" Voice Coil
- Extended Frequency Response
- Excellent Full Range Performance
- Precision Wound High Reliability Coil Design
- Computer Optimized Ferrite Magnet
- Heavy Gauge Steel Chassis Design

Applications

The P Audio E12-100F is a high output wide range transducer. The E12-100F is an upgraded design that features many of P Audio's new technologies and performance upgrades. The 12 inch (305mm) diameter piston will produce high sound pressure levels at low frequencies but also exhibits an extended high frequency response that makes the E12-100F a full range device. The operating bandwidth of the E12-100F is 50Hz to12kHz. The transducer uses high energy ferrite magnetics to achieve a very high acoustic output to weight ratio.

The E12-100F employs a medium format 1.5 inch (38.5mm) diameter voice coil that provides an AES rated 100 watts of continuous power handling and a full 400 watts of peak rated power handling when sufficient amplifier headroom is available. The E12-100F 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 that maximizes system conversion efficiency and cooling.

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.

Specifications

General Specifications

Nominal diameter	305 mm/12 in
Power rating	
Nominal impedance	8Q
Sensitivity	
Frequency range	50-12000 Hz
Chassis type	Heavy Duty Stamp Steel
Magnet type	
Magnet weight	1.2 kg/41.1 oz
Voice coil diameter	
Coil material	
Former material	Kapton
Cone material	
Surround material	
Suspension	
X-max	1.13 mm/0.04 in
Gap depth	8 mm/0.31 in
Voice coil winding width	10.25 mm/0.40 in
Net Weight	3.8 kg/8.4 lb
Packing Dimension WxDxH	325 x 325 x 170 mm
Shipping Weight	
	0

Small Signal Parameters

Re	6.8 Ω
Fs	54 Hz
Mms	41.65 g/1.47 oz
Mmd	35.01 g/1.23 oz
Qms	5.37
Qes	0.71
Qts	0.62
Vas	77.45 lt/2.74 ft ³
BI	11.67 Tm
Cms	2.1e-04 m/N
Rms	2.63 Ns/m
Le (at 1kHz)	0.29 mH
Sd	511 cm2



