

Ferrite Magnet Die-cast Chassis Driver



Features

- 3" Medium Format Voice Coil
- 2000 Watts Peak Power Handling
- Active Balanced Cooling
- Ferrite Magnetics
- Aluminum wire Inside/Outside Coil Design
- Single Spider Suspension

Applications

The P Audio GST-12500 is a 12 inch (305mm) diameter high performance woofer. The design utilizes a medium format 3 inch (76mm) nominal voice coil diameter with a very light weight aluminum coil configured in an inside/outside wind geometry. This light weight design, coupled with a low moving mass cone offers excellent transient response. The large format ferrite based magnet structure produces very high conversion efficiency. Inside/outside winding geometry assists in coil cooling and improves both transducer power handling and system reliability. The GST-12500 also features a very long air gap height that improves transducer linearity

The GST-12500 offers very smooth and controlled amplitude response to 2000Hz and has a useable high frequency limit of 3000Hz. The GST-12500 is an excellent choice for high output two way system designs and is ideally coupled with P Audio BM-D series and SD series compression drivers. P Audio offers a wide range of high frequency horns that can provide short throw or medium throw designs when coupled with the GST-12500.

The design features very large diameter impregnated spiders to insure long term linearity. The impregnated spiders and very high system power handling will insure excellent long term performance. The cone is waterproof to improve reliability in high humidity environments.

The GST-12500 features an aluminum die cast chassis that includes P Audio's "Auto Balanced Cooling" design that minimizes coil and magnet structure heating, and further improves system performance.

Specifications

General Specifications	
Nominal diameter	305 mm/12 in
Power rating	500 W(AES)
Nominal impedance	8Ω
Sensitivity	96 dB
Frequency range	50-3000 Hz
Chassis type	
Magnet type	Ferrite
Magnet weight	2.7 kg/96.6 oz
Voice coil diameter	76 mm/ 3 in
Coil material	Aluminum wire
Former material	Glass fiber
Cone material	Paper
Surround material	
Suspension	
X-max	
Gap depth	
Voice coil winding width	18.5 mm/0.73 in

Small Signal Parameters

Re	5.5 Ω
Fs	56 Hz
Mms	65.85 g/2.32 oz
	58.40 g/2.06 oz
Qms	8.34
Vas	52.86 lt/1.87 ft ³
SD	552 cm²
	15.70 Tm
	1.2e-04 m/N
Rms	2.78 Ns/m
Le (at 1kHz)	0.52 mH





