

GST SERIES

GST-181200 v3

Ferrite Magnet Die-cast Chassis Driver

Features

- 2400 W continuous program power capacity
- 101.6mm (4.0 inch) voice coil
- 30 - 1000 Hz response
- 96 dB sensitivity
- Ferrite magnet



The P Audio GST-181200 V3 is an 18 inch (457mm) diameter high performance very low frequency sub woofer transducer. The design utilizes a large format 4 inch (101.6mm) nominal voice coil diameter with a very high power copper based coil configured in an inside/outside wind geometry. The large radiating area and deep bass performance insure that the GST-181200 V3 is capable of very high impact low frequency performance. The transducer also offers a double silicone spider design that improves long term mechanical reliability and mechanical linearity. 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-181200 V3 also features a very long air gap height that improves transducer linearity.

The design features very large diameter silicone impregnated spiders to insure long term linearity. The GST-181200 V3 also incorporates a proven double spider design that effectively controls off axis displacement of the coil assembly. The silicone 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-181200 V3 offers very smooth and controlled amplitude response and has a recommended high frequency limit of 150Hz. The rated low frequency limit of 35Hz will insure excellent low frequency extension and very deep bass response. The GST-181200 V3 is an excellent choice for high output sub woofer system designs where extended deep bass energy is specified.

The design also features a very high strength to weight ratio cone design. It is ideally suited to vented enclosure designs and can be coupled with a wide range of top box enclosures. The GST-181200 V3 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. The rated continuous power handling is 1200 watts (AES) and offers a peak power handling rating of 4800 watts when sufficient amplifier headroom is available.

General Specifications

Nominal Diameter	457 mm (18 in)
Nominal Impedance	8 Ω
Nominal Power Handling	1200 W(AES)
Continuous Program Power Capacity	2400 W
Sensitivity	96 dB
Frequency Range	30-1000 Hz
Voice Coil Diameter	101.6 mm (4.0 in)
Voice Coil Material	Copper (IN/OUT)
Former Material	Glass fiber
Effective Piston Diameter	397.0 mm (15.6 in)
Flux Density	1.1T

Physical Information

Magnet Material	Ferrite
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton (Silicone Impregnated Spider)
Gasket	EVA
Pole Design	T-Pole
Woofer Cone Treatment	Waterproof Front Side

Parameters

Fs	35 Hz	Vas	180.2 lt
Re	5.6 Ω	Sd	1225 cm ²
Qms	13.73	Le	0.76 mH
Qes	0.57	Eff (η ₀)	1.35%
Qts	0.54	Cms	8.6 e-05 m/N
BL	22.80Tm	Xmax	6.0 mm
Mms	238.91 g	Hag	15.0 mm
Mmd	214.25 g	Hvc	27.0 mm

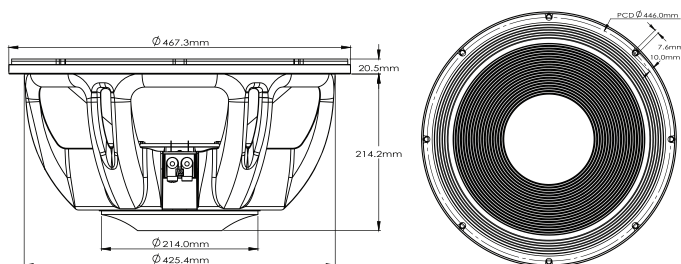
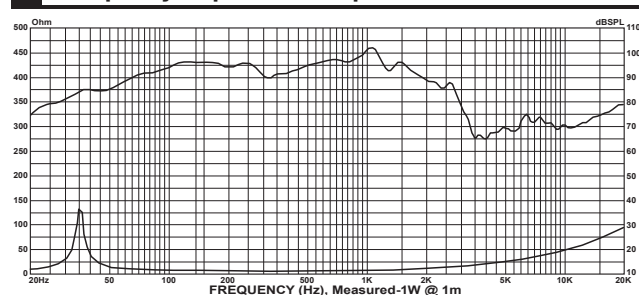
Mounting and Shipping Info

Diameter	467.3 mm (18.40 in)
Baffle Cutout Diameter	425.3 mm (16.74 in)
Mounting Hole Diameter	446.0 mm (17.56 in)
Bolt Circle Diameter	8 x Ø (7.6 x 10) mm
Depth	214.2 mm (8.43 in)
Flange and Gasket Thickness	20.5 mm (0.81 in)
Net Weight	16 kg
Shipping Units	1
Shipping Weight	18.2 kg
Shipping Box	500 x 500 x 302 mm

Recone Kit

F05031803001PAA

Frequency response and Impedance curve



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