

**GST
SERIES**

GST-181500 v3

Ferrite Magnet Die-cast Chassis Driver

Features

- 2800 W continuous program power capacity
- 126 mm (5 inch) voice coil
- 40 - 800 Hz response
- 96 dB sensitivity
- Ferrite magnet



The P Audio GST-181500 V3 is an 18 inch (457mm) diameter high performance very low frequency sub woofer transducer. The design utilizes a very large format 5 inch (126mm) 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-181500 V3 is capable of very high impact low frequency response. 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. The ferrite design includes a double stack permanent magnet geometry that increases maximum physical excursion capability. Inside/outside winding geometry assists in coil cooling and improves both transducer power handling and system reliability.

The GST-181500 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-181500 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-181500 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-181500 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. The GST-181500 V3 is ideally suited to vented enclosure designs and can be coupled with a wide range of top box enclosures.

The GST-181500 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 1500 watts (AES) and offers a peak power handling rating of 6000 watts when sufficient amplifier headroom is available.

General Specifications

Nominal Diameter	457 mm (18 in)
Nominal Impedance	8 Ω
Nominal Power Handling	1400 W(AES)
Continuous Program Power Capacity	2800 W
Sensitivity	96 dB
Frequency Range	40-800 Hz
Voice Coil Diameter	126.0 mm (5 in)
Voice Coil Material	Copper (IN/OUT)
Former Material	Glass fiber
Effective Piston Diameter	397.0 mm (15.6 in)
Flux Density	1.2T

Physical Information

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

Parameters

Fs	0 Hz	Vas	92.248 lt
Re	5.6 Ω	Sd	1225 cm2
Qms	11.95	Le	1.26 mH
Qes	0.63	Eff (η ₀)	1.27%
Qts	0.60	Cms	4.3 e-05 m/N
BL	26.77Tm	Xmax	9.0 mm
Mms	288.88 g	Hag	14.0 mm
Mmd	264.23 g	Hvc	32.0 mm

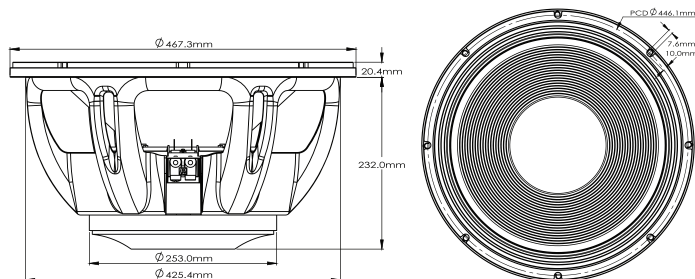
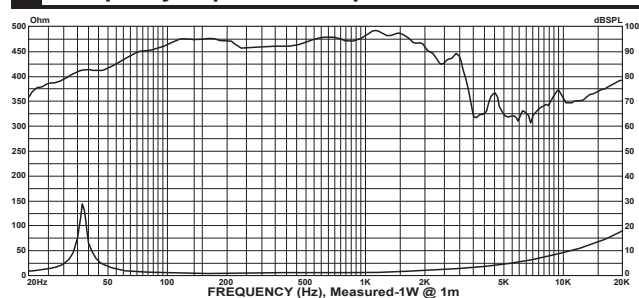
Mounting and Shipping Info

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	232 mm (9.13 in)
Flange and Gasket Thickness	20.4 mm (0.80 in)
Net Weight	24.8 kg
Shipping Units	1
Shipping Weight	26.9 kg
Shipping Box	500 x 500 x 312 mm

Recone Kit

F05031800801PAA

Frequency response and Impedance curve



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