

Neodymium Magnet Die-cast Chassis Driver



Features

- 4.5" Very Large Format Voice Coil
- 6800 Watts Peak Power Handling
- Active Balanced Cooling
- Neodymium Magnetics
- Square Wire Inside/Outside Coil Design
- Double Spider Suspension
- Integrated Demodulation Rings
- Die Cast Aluminum Chassis

Applications

The SD15-1700N is a high output wide bandwidth transducer. The 15 inch (381mm) diameter piston will produce extremely high sound pressure levels at both low and mid band frequencies and is ideal for high level low frequency and full range response. This design is optimized for both live sound and recorded music venues. The transducer uses high energy neodymium magnetics to achieve a very high acoustic output to weight ratio. The SD15-1700N has been optimized for use in two and three way sound reinforcement system designs. The operating bandwidth is 55Hz to 2000Hz.

The SD15-1700N employs a large 4.5 inch (114.3mm) diameter voice coil that provides an AES rated 1700 watts of continuous power handling and a full 6800 watts of peak rated power handling when sufficient amplifier headroom is available. The SD15-1700N utilizes P Audio's Auto Balanced Cooling (ABC) technology to not only improve transducer power handling and reliability but to also increase power compression performance by carefully balancing and directing airflow to critical areas.

The voice coil design is an "inside/outside" geometry with P Audio's precision flat wire technology to improve conversion efficiency and provide a very large cross-sectional area for superior cooling.

System linearity is achieved by employing magnetic flux demodulation devices in the structure to increase fidelity and sonic accuracy. The system suspension has been designed specifically for high linear displacement for both low frequency and mid band response. The double spider design insures very high displacement and linear response while maintaining excellent control.

The transducer chassis is a die cast aluminum design that insures a very high degree of structural integrity.

Specifications

General Specifications

Nominal diameter	
Power rating	1700 W(AES)
Nominal impedance	8Ω
Sensitivity	96 dB
Frequency range	55-2000 Hz
Chassis type	Cast aluminum
Magnet type	Neodymium
Magnet weight	0.72 kg/25.5 oz
Voice coil diameter	114.3 mm/4.5 in
Coil material	SV-SQ
Former material	Glass fiber
Cone material	Paper
Surround material	Cloth
Suspension	Double
X-max	7.5 mm/0.29 in
Gap depth	
Voice coil winding width	30.0 mm/1.18 in
Net Weight	11.5 kg/25.4 lb
Packing Dimension WxDxH (mm) 4	30mm x 430mm x 250mm
Shipping Weight	
	0

Small Signal Parameters

Fs
Mmd. 170.22 g/6.00 oz Qms. 8.20 Qes. 0.35 Qts. 0.33
Mmd. 170.22 g/6.00 oz Qms. 8.20 Qes. 0.35 Qts. 0.33
Qms 8.20 Qes 0.35 Qts 0.33
Qts
Vas
BI
Cms4.2e-05 m/N
Rms8.06 Ns/m
Le (at 1kHz)1.03 mH





