Ferrite Magnet Die-cast Chassis Driver



Features

- 3.9" Large Format Voice Coil
- 4800 Watts Peak Power Handling
- Active Balanced Cooling
- Ferrite Magnetics
- Precision Rectangular Ribbon Wire
- Double Spider Suspension
- Integrated Demodulation Rings
- Die Cast Aluminum Chassis

Applications

The P Audio C18-650EL is a high output low frequency transducer. The C18-650EL is an upgraded design that features many of P Audio's new technologies and performance upgrades. The 18 inch (457mm) diameter piston will produce extremely high sound pressure levels at very low frequencies and is ideal for high level deep bass and sub woofer response in both live sound and recorded music venues. The transducer uses high energy ferrite magnetics to achieve a very high acoustic output to weight ratio.

The C18-650EL employs a large 3.9 inch (99.3mm) diameter voice coil that provides an AES rated 1200 watts of continuous power handling and a full 4800 watts of peak rated power handling when sufficient amplifier headroom is available. The transducer is optimized for use in properly tuned vented enclosures and will provide maximal reliability when both a vented enclosure and active high pass filtering are employed. The C18-650EL 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 a bobbin wound geometry with P Audio's rectangular wire technology to improve conversion efficiency and provide a large cross-sectional area for superior cooling.

The transducer employs magnetic flux demodulation devices in the structure to increase fidelity and sonic accuracy. The system suspension has been designed specifically for high linear displacement and extended low frequency response. The double spider design further enhances system mechanical control and reliability. The cone has been treated with a conformal coating designed to provide additional mechanical damping and moisture resistance

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

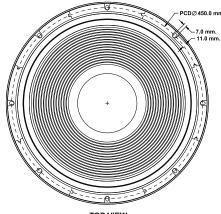
Specifications

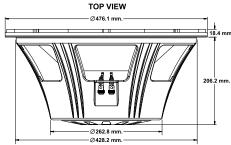
General Specifications

Nominal diameter	457 mm/18 in
Power rating	1200 W(AES)
Nominal impedance	8Ω
Sensitivity	98 dB
Frequency range	
Chassis type	Cast aluminum
Magnet type	Ferrite
Magnet weight	
Voice coil diameter	
Coil material	CCA-R
Former material	
Cone material	Paper
Surround material	Cloth
Suspension	
X-max	
Gap depth	15.0 mm/0.59 in
Voice coil winding width	
Net Weight	
Packing Dimension WxDxH	
Shipping Weight	14.7 kg/32.4 lb
11 5 5	

Small Signal Parameters

Re	5.8Ω
Fs	46 Hz
Mms	179.84 g/6.34 oz
Mmd	155.18 g/5.47 oz
Qms	5.39
Qes	
Qts	0.52
Vas	144.23 lt/5.09 ft ³
BI	
Cms	6.9e-05 m/N
Rms	9.57 Ns/m
Le (at 1kHz)	0.63 mH
Sd	1225 cm2





SIDE VIEW

