



Applications

PW-1PW-1804X has been designed specifically for both direct radiator and horn loaded mid bass applications. This PW Series design has been optimized for use in the critical 35Hz to 1000Hz vocal range and is an ideal choice for professional level three way designs. A typical 18 inch design must offer both good bandwidth, down to 60Hz, and good efficiency. The PW-1804X has all of its performance designed into the 125Hz and above range. This means that the efficiency can be optimized for this frequency range. High efficiency means that lower electrical power levels are required, thus improving both system reliability and reducing power compression.

The PW-1804X is a 18 inch (460mm) diameter design that employs very high energy product Neodymium magnetics to proved extremely high conversion efficiency. The medium format 4 inch (101.6mm) voice coil design is an edge wound rectangular aluminum design to further maximize efficiency. Because weight is critical for portable systems or flown/suspended designs, the PW-1804X features a die cast aluminum chassis as well as the Ferrite magnet structure. The performance parameters of the PW-1804X are optimized for professional level mid bass designs. If full range designs are specified the PW-1804X should be utilized.

P Audio features state of the art design and manufacturing that insure the PW-1804X will provide very high power handling and reliability in high performance profession applications.

Specifications

GENERAL SPECIFICATIONS

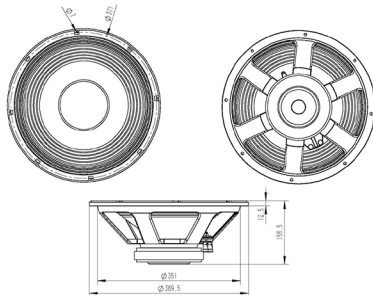
| | |
|----------------------------------|-------------------------------------|
| Nominal Impedance | 8 Ω |
| Power | 2000 Watt (rms) |
| SPL 1W@1M average sensitivity | 98 dB |
| Frequency Response | 35Hz - 1000Hz |
| Dimension \varnothing x H (cm) | 46 x 10.7 |
| Net Weight | 12.20 kg (26.84bs) |
| Shipping Weight | 13.60 kg (29.92 lbs) |
| Packing Dimension H x W x D (cm) | 51 x 51 x 25.5cm 20" x 20" x 10" |

PHYSICAL SPECIFICATIONS

| | |
|---------------------|-------------------|
| Magnet type | Ferrite |
| Voice Coil Diameter | 101.6 mm (4 inch) |

THIELE/SMALL PARAMETERS

| | | |
|-------------------------|------|---------------|
| Resonance Frequency | Fs | 35 Hz |
| DC. Resistance | Re | 5.1 Ω |
| Coil Inductance | Le | 1.07 mH |
| Mechanical Q Factor | Qms | 7.29 |
| Electrical Q Factor | Qes | 0.40 |
| Total Q Factor | Qts | 0.38 |
| BL Product | BL | 22.86 Tm |
| Effective Moving Mass | Mms | 197.8 g |
| Equivalent Cas Air-Load | Vas | 256.39 Liters |
| Effective Piston Area | Sd | 0.123 Sqm |
| Half-Space Efficiency | Eff | 2.19 % |
| Airgap Height | Hag | 12.0 mm |
| Voice Coil Height | Hvc | 25.0 mm |
| Voice Coil Overhang | Xmax | 6.5 mm |



SPL vs Freq

