



KEY FEATURES:

98 db 1W / 1m average sensitivity
100 mm high temperature sandwich voice coil
2000 W AES program power
Powerful, vented 220 mm magnet structure
Aluminium demodulating ring for lower distortion and improved heat
dissipation
Double silicone spider for improved excursion control and linearity

Application: High Power Bass

The **18XB700** bass loudspeaker is specially designed to deliver high impact bass response, with exceptional high power capacity. It incorporates an 4 `` sandwich voice coil, kevlar paper cone, a powerful, vented 220 mm magnetic structure, die cast vented aluminium frame which reduced power compression, and double silicone spider assembly. This results in an incredible high efficient transducer for subwoofer applications, with the ability to handle high excursion with low distortion and reduced thermal power compression.





SPECIFICATIONS

Nominal Diameter Impedance Minimum Impedance Power Capacity AES ¹ Program Power² Sensitivity Frequency Range Voice Coil Diameter Voice Coil Material Voice Coil Former Voice Coil Winding Depth Magnet Gap Depth Cone Material Basket Magnet Flux Density

18"/461 inch/mm 8 Ohm 7.00 Ohm 1000 W 2000 W (50-200 Hz) 98 dB/W/m 35 - 1000 Hz 100 mm Cooper Glassfiber 25 mm 14 mm Kevlar paper Die cast aluminium Ferrite 0.97 T

THIELE-SMALL PARAMETERS

Resonance Frequency	36.10 Hz
Mechanical Efficiency Factor (Qms)	9.26
Electrical Efficiency Factor (Qes)	0.314
Total Q (Qts)	0.304
Equivalent Air Volume (Vas)	183.22 Litres
Diaphragm mass ind. airload (Mms)	182.62 grams
Voice Coil Resistance Re	5.17 Ohms
Effective Diagram Area (Sd)	1110 cm ²
Peak Linear Displacement of Diaphragm (Xmax)*	± 9 mm
Mechanical Compliance of Suspension (Cms)	0.1064 mm/N
BL Product (BL)	26.10 T.m
V.C. Inductance at 1 kHz (Le)	1.83 mH

MOUNTING INFORMATION

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 180 L box enclosure tuned 43 Hz using a 40-400 Hz band limited pink noise test signal applied continuously for 2 hours.

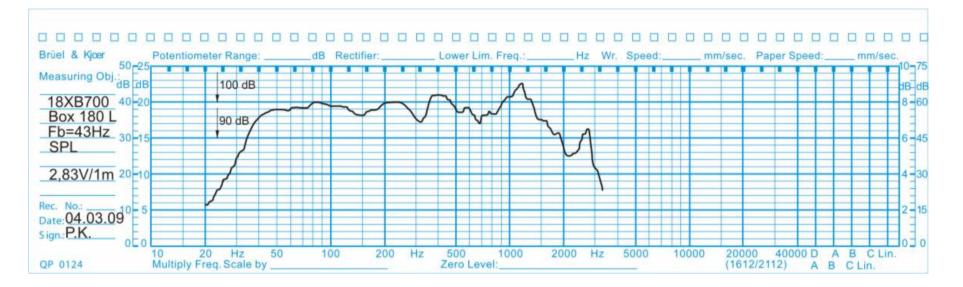
2. Program power is defined as 3db greater than AES Power Capacity.

* Linear Mathematical Xmax is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg is the gap depth.

Overall Diameter Baffle Hole Diameter Number of Mounting Holes Bolt Circle Diameter Overall Depth Net Weight 461 mm 416 mm 8 eliptic 7 x 8,5 mm 438/441 mm 201 mm 12.55 kg







Frequency Response





