



## KEY FEATURES:

- **99 db 1W / 1m average sensitivity**
- **88 mm high temperature sandwich voice coil**
- **1400 W AES program power**
- **Powerful, vented 200 mm magnet structure**
- **Double aluminium demodulating ring for lower distortion and improved heat dissipation**
- **Water protected cone (front)**

## Application:

The 18B35 bass loudspeaker is specially designed to deliver high impact bass response, with high power capacity. It incorporates an 3.5" sandwich voice coil, paper cone, a powerful vented 200 mm magnetic structure, die cast vented aluminium frame which reduced power compression. The double aluminium demodulating rings on the magnet structure reduce distortion and inductance and improve transient response. The special designed components for low Mms ensure very high definition bass reproduction. 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 18"/461 inch/mm  
Impedance 8 Ohm  
Minimum Impedance 5.72 Ohm  
Power Capacity AES <sup>1</sup> 700 W  
Program Power <sup>2</sup> 1400 W  
Sensitivity (50-200 Hz) 99 dB/W/m  
Frequency Range 32 - 1000 Hz  
Voice Coil Diameter 88 mm  
Voice Coil Material Cooper Clad Aluminium  
Voice Coil Former Glassfiber  
V. C. Winding Depth 24 mm  
Magnet Gap Depth 12 mm  
Cone Material paper  
Basket Die cast aluminium  
Magnet Ferrite  
Flux Density 1.06 T

## THIELE-SMALL PARAMETERS

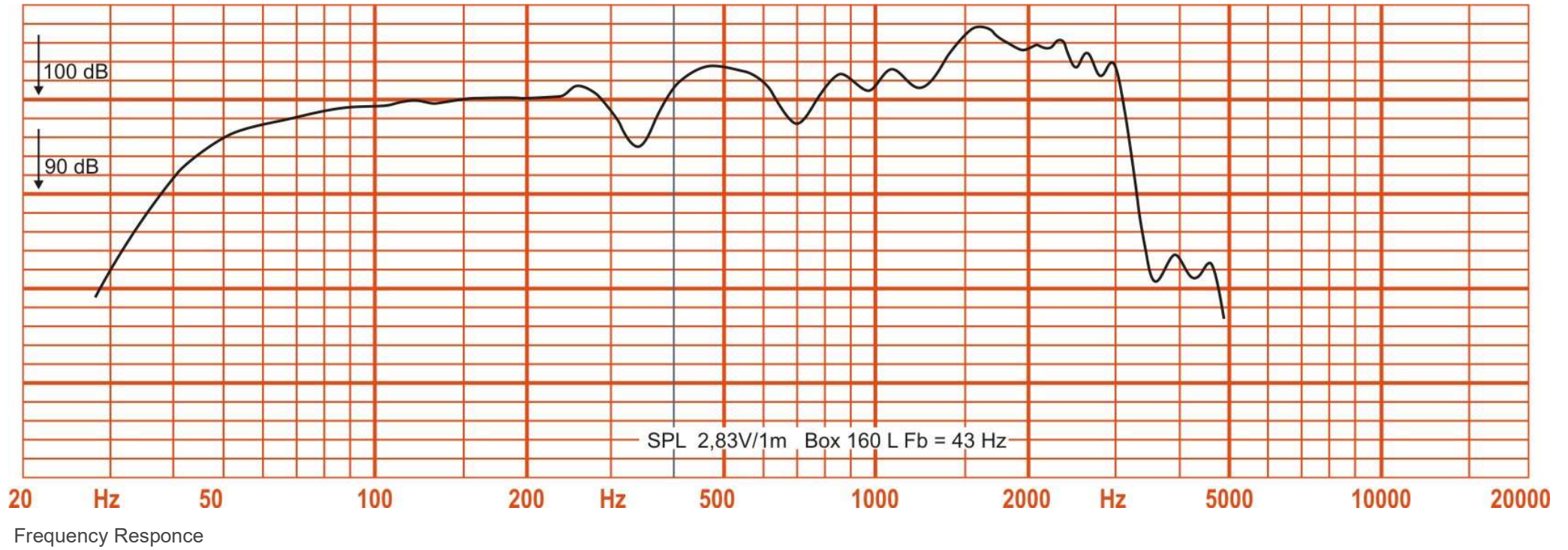
Fs 31.76 Hz  
Qms 8.05  
Qes 0.337  
Qts 0.324  
Vas 333.62 Litres  
Mms 129.55 grams  
Re 4.88 Ohms  
Sd 1110 cm<sup>2</sup>  
Xmax\* ± 9 mm  
Cms 0.194 mm/N  
BL 19.34 T.m  
Le at 1kHz 0.61 mH

## MOUNTING INFORMATION

Overall Diameter 461 mm  
Baffle Hole Diameter 417 mm  
Mounting Holes 8 elliptic 7 x 8,5 mm  
Bolt Circle Diameter 438/441 mm  
Overall Depth 195.5 mm  
Net Weight 10 kg

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 160 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:  $(H_{vc} - H_g)/2 + H_g/4$  where  $H_{vc}$  is the voice coil depth and  $H_g$  is the gap depth.



## Drawings

