

**18PZB100** 4 Ω

Subwoofer

- 1400 W continuous program power capacity
- 100 mm (4 in) copper voice coil
- 40 - 2000 Hz response
- 96.5 dB sensitivity
- Double silicone spider with optimized compliance



# 18PZB100 4 Ω

## Subwoofer

### SPECIFICATIONS

|                                                                                                                                                     |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Nominal Diameter                                                                                                                                    | <b>460 mm (18 in)</b>            |
| Nominal Impedance                                                                                                                                   | <b>4 Ω</b>                       |
| Minimum Impedance                                                                                                                                   | <b>4.2 Ω</b>                     |
| Nominal Power Handling                                                                                                                              | <b>700 W</b>                     |
| 2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air. |                                  |
| Continuous Power Handling                                                                                                                           | <b>1400 W</b>                    |
| Power on Continuous Program is defined as 3 dB greater than the Nominal rating.                                                                     |                                  |
| Sensitivity                                                                                                                                         | <b>96.5 dB</b>                   |
| Applied RMS Voltage is set to 2 V for 4 ohms Nominal Impedance.                                                                                     |                                  |
| Frequency Range                                                                                                                                     | <b>40 Hz - 2000 Hz</b>           |
| Voice Coil Diameter                                                                                                                                 | <b>100 mm (4 in)</b>             |
| Winding Material                                                                                                                                    | <b>Copper</b>                    |
| Former Material                                                                                                                                     | <b>Glass Fibre</b>               |
| Winding Depth                                                                                                                                       | <b>21 mm (0.83 in)</b>           |
| Magnetic Gap Depth                                                                                                                                  | <b>11 mm (0.43 in)</b>           |
| Flux Density                                                                                                                                        | <b>1.15 T</b>                    |
| Woofer Cone Treatment                                                                                                                               | <b>TWP Waterproof Both Sides</b> |

### PARAMETERS

Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

|                  |                                                    |
|------------------|----------------------------------------------------|
| Fs               | <b>38 Hz</b>                                       |
| Re               | <b>4 Ω</b>                                         |
| Qes              | <b>0.29</b>                                        |
| Qms              | <b>6.1</b>                                         |
| Qts              | <b>0.28</b>                                        |
| Vas              | <b>164 dm<sup>3</sup> (5.79 ft<sup>3</sup>)</b>    |
| Sd               | <b>1134 cm<sup>2</sup> (175.77 in<sup>2</sup>)</b> |
| η <sub>0</sub>   | <b>2.95 %</b>                                      |
| X <sub>max</sub> | <b>8 mm</b>                                        |
| X <sub>var</sub> | <b>8 mm</b>                                        |
| M <sub>ms</sub>  | <b>190 g</b>                                       |
| Bl               | <b>25 Tm</b>                                       |
| Le               | <b>1.25 mH</b>                                     |
| EBP              | <b>131 Hz</b>                                      |

### DESIGN

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| Surround Shape        | <b>Double Roll</b>                              |
| Cone Shape            | <b>Exponential</b>                              |
| Magnet Material       | <b>Ferrite</b>                                  |
| Spider                | <b>Double Silicone</b>                          |
| Pole Design           | <b>Straight Pole</b>                            |
| Woofer Cone Treatment | <b>TWP Waterproof Both Sides</b>                |
| Recommended Enclosure | <b>160 dm<sup>3</sup> (5.65 ft<sup>3</sup>)</b> |
| Recommended Tuning    | <b>39 Hz</b>                                    |

### MOUNTING AND SHIPPING INFO

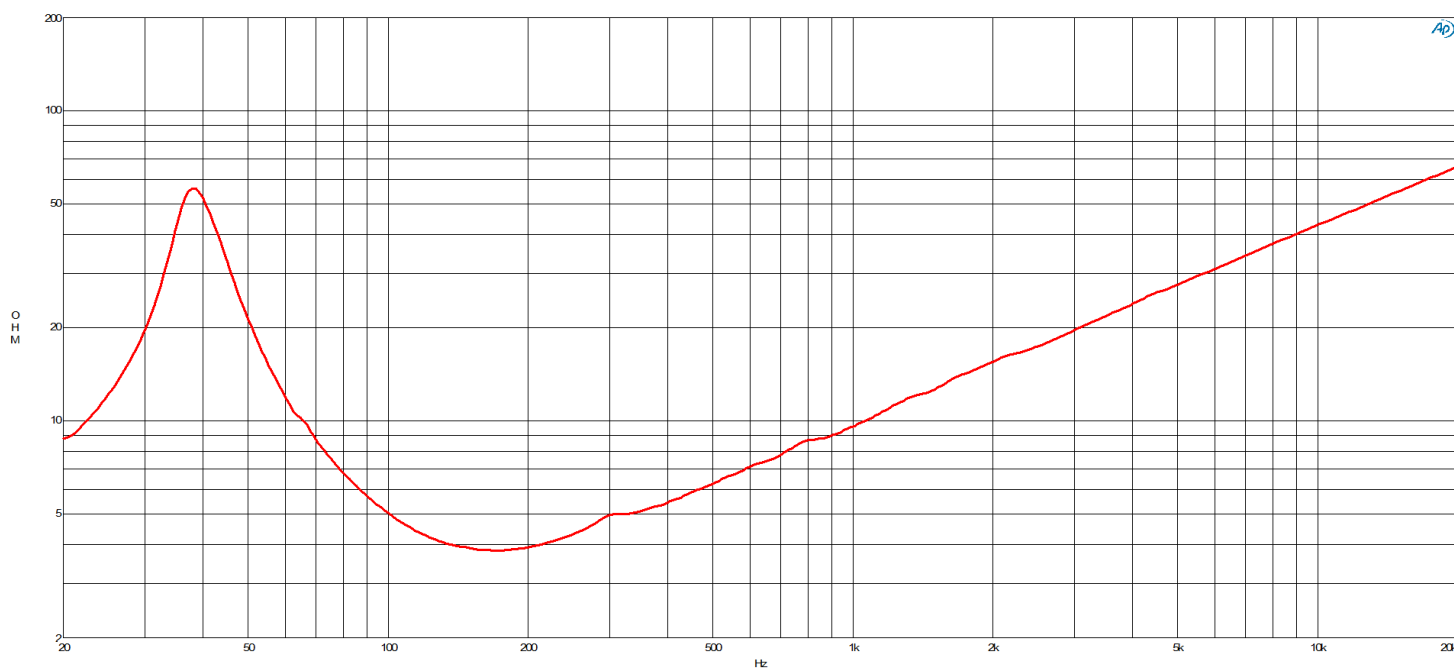
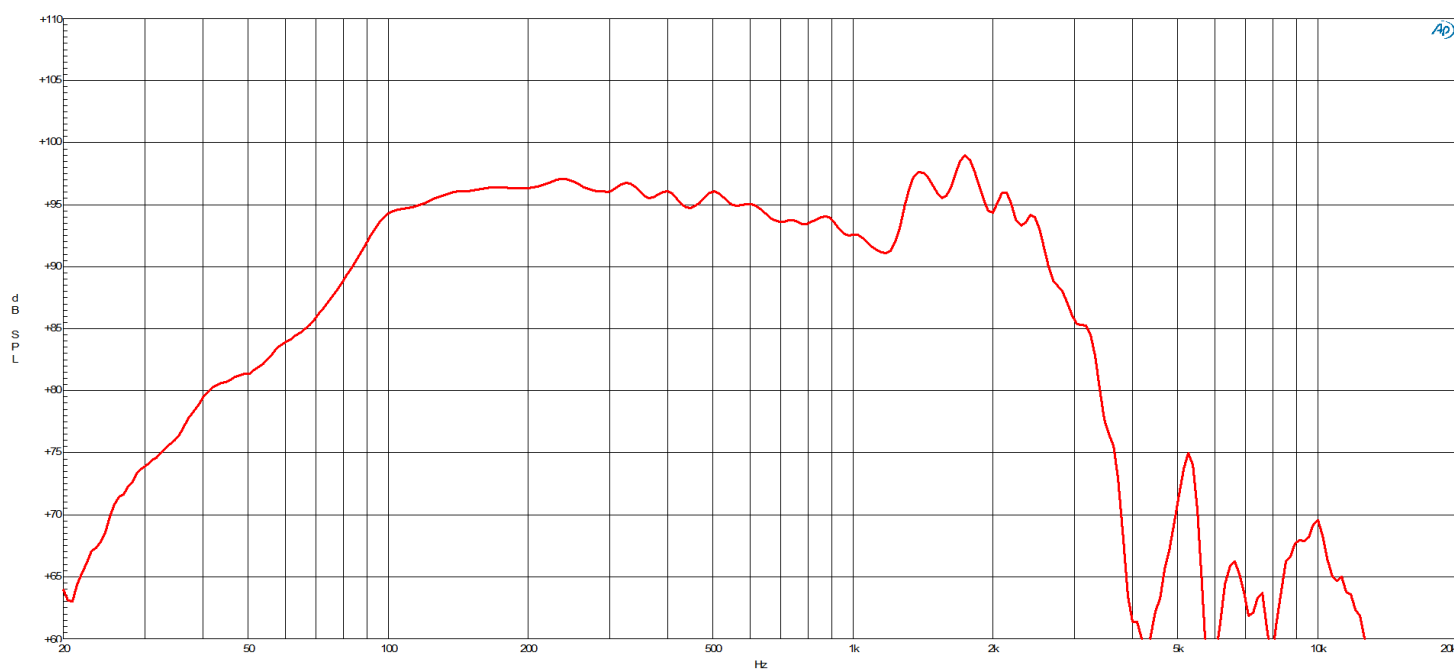
|                               |                                                 |
|-------------------------------|-------------------------------------------------|
| Overall Diameter              | <b>460 mm (18.11 in)</b>                        |
| Bolt Circle Diameter          | <b>440 mm (17.32 in)</b>                        |
| Baffle Cutout Diameter        | <b>422 mm (16.61 in)</b>                        |
| Depth                         | <b>202 mm (7.95 in)</b>                         |
| Flange and Gasket Thickness   | <b>16 mm (0.63 in)</b>                          |
| Air Volume Occupied by Driver | <b>9.5 dm<sup>3</sup> (0.34 ft<sup>3</sup>)</b> |
| Net Weight                    | <b>12.2 kg (26.9 lb)</b>                        |
| Shipping Units                | <b>1 pcs</b>                                    |
| Shipping Weight               | <b>13.8 kg (30.42 lb)</b>                       |
| Shipping Box                  | <b>500x495x275 mm (19.69x19.49x10.83 in)</b>    |

### SERVICE KITS

|                |                     |
|----------------|---------------------|
| LF recone-kits | <b>RCK18PZB1004</b> |
|----------------|---------------------|

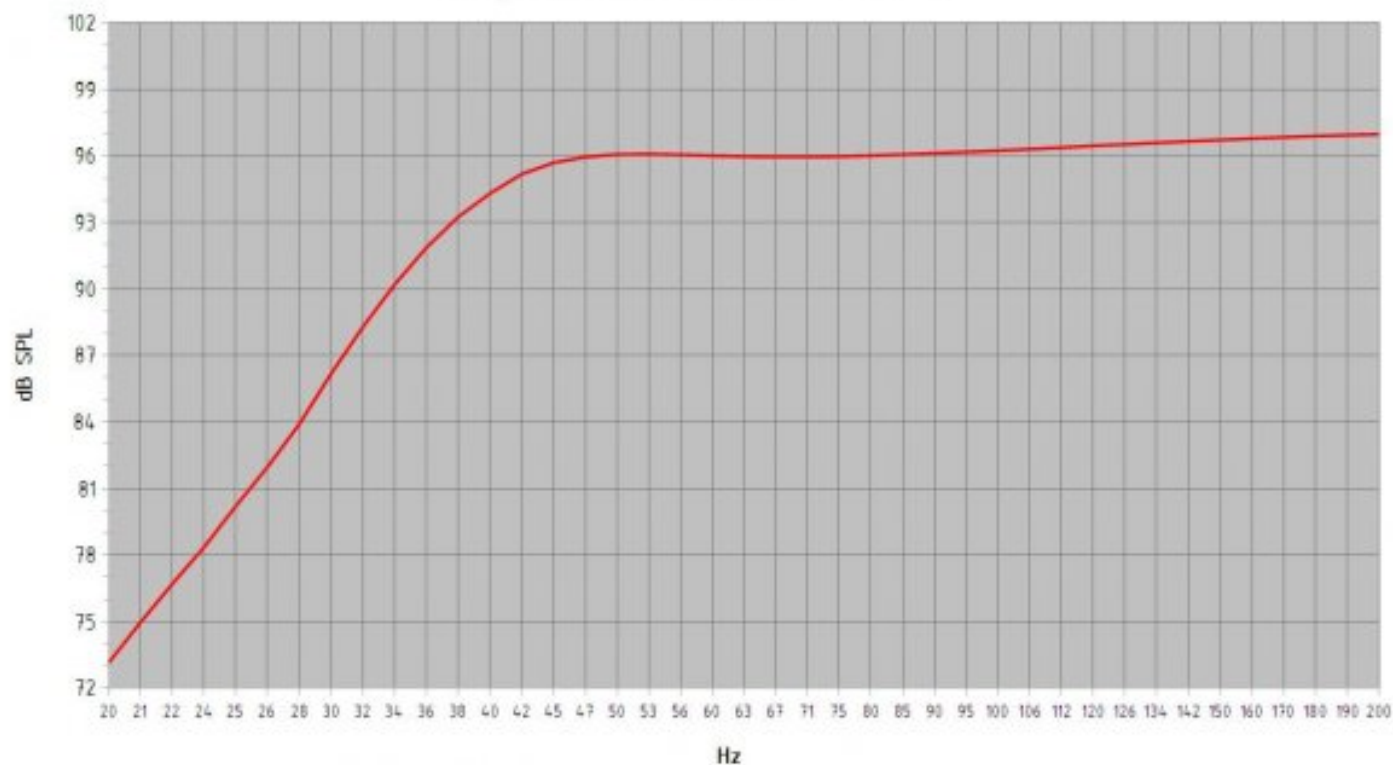
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Frequency Response (2,83 Vrms/1 m)



Model: **18 PZB 100**  
Enclosure Type: **Bass Reflex**

Internal Net Volume (Liters): **160**  
Tuning Frequency (Hz): **39**  
Frequency (-3 dB) (Hz): **40,3**

Port Area (cm<sup>2</sup>): **339,6**  
Port Length (cm): **23,8**

Excursion Limited Maximum SPL at 1 meter (dB): **120,6** equal to **256,1** Watts (Bass Band Power Rating)  
Thermal Limited Maximum SPL at 1 meter (dB): **125,0** equal to **700,0** Watts (Mid Band Power Rating)

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