

**8BG51** 8 Ω

Woofer

- 500 W continuous program power capacity
- 51 mm (2 in) copper voice coil
- 50 - 4000 Hz response
- 92 dB sensitivity
- Neodymium magnet allows a very light yet powerful motor assembly
- Shorting copper cap for extended HF response
- Ventilated voice coil gap for reduced power compression



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## SPECIFICATIONS

Nominal Diameter	<b>200 mm (8 in)</b>
Nominal Impedance	<b>8 Ω</b>
Minimum Impedance	<b>6 Ω</b>
Nominal Power Handling	<b>250 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>500 W</b>
Power on Continuous Program is defined as 3 dB greater than the Nominal rating.	
Sensitivity	<b>92 dB</b>
Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.	
Frequency Range	<b>50 Hz - 4000 Hz</b>
Voice Coil Diameter	<b>51 mm (2 in)</b>
Winding Material	<b>Copper</b>
Former Material	<b>Glass Fibre</b>
Winding Depth	<b>17 mm (0.65 in)</b>
Magnetic Gap Depth	<b>8 mm (0.31 in)</b>
Flux Density	<b>1.15 T</b>
Woofers Cone Treatment	<b>WP Waterproof Front Side</b>

## PARAMETERS

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

Fs	<b>52 Hz</b>
Re	<b>5.1 Ω</b>
Qes	<b>0.42</b>
Qms	<b>12.3</b>
Qts	<b>0.4</b>
Vas	<b>18 dm<sup>3</sup> (0.63 ft<sup>3</sup>)</b>
Sd	<b>220 cm<sup>2</sup> (34.1 in<sup>2</sup>)</b>
η0	<b>0.6 %</b>
Xmax	<b>6.5 mm</b>
Xvar	<b>8 mm</b>
Mms	<b>35 g</b>
Bl	<b>11.8 Tm</b>
Le	<b>0.5 mH</b>
EBP	<b>124 Hz</b>

## DESIGN

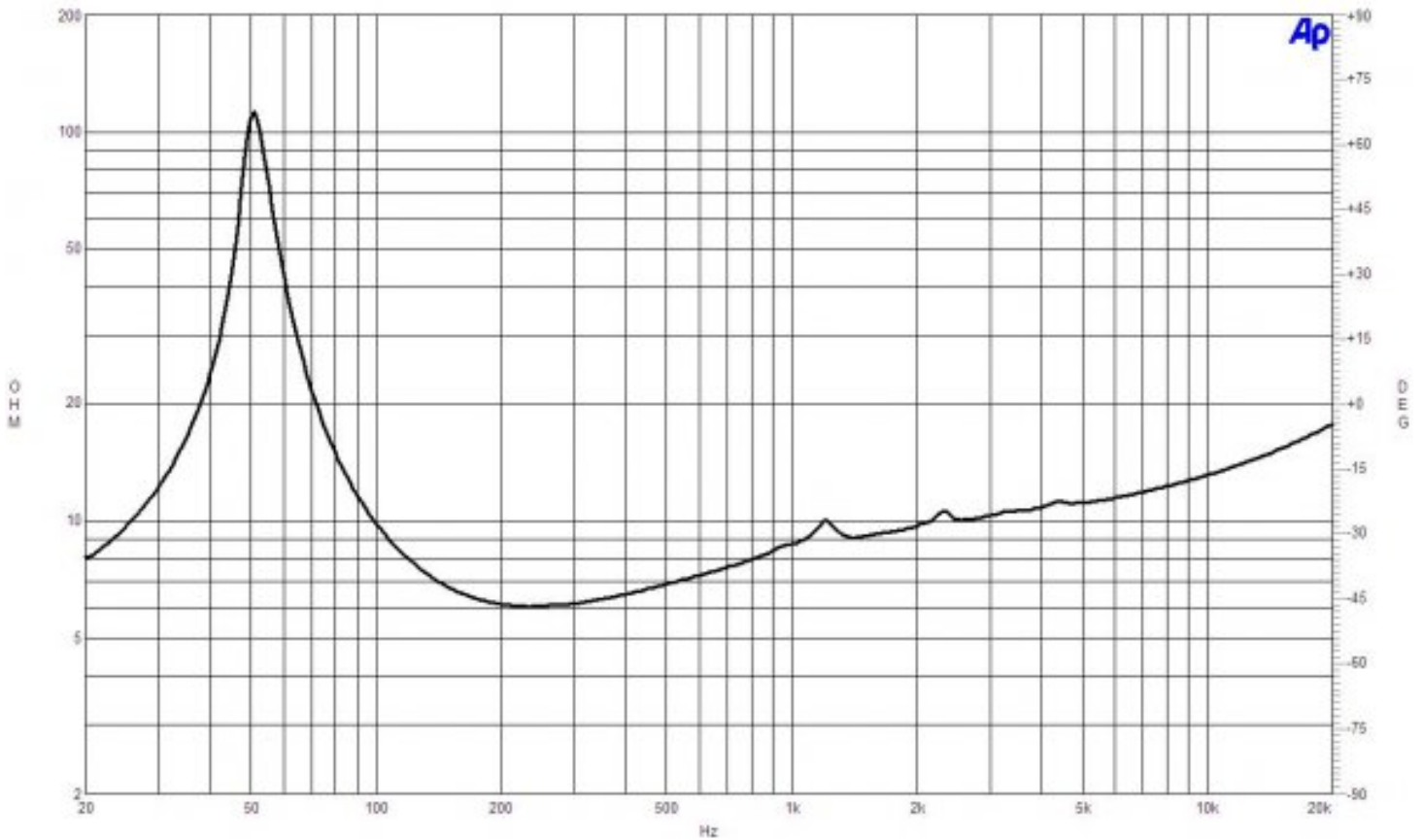
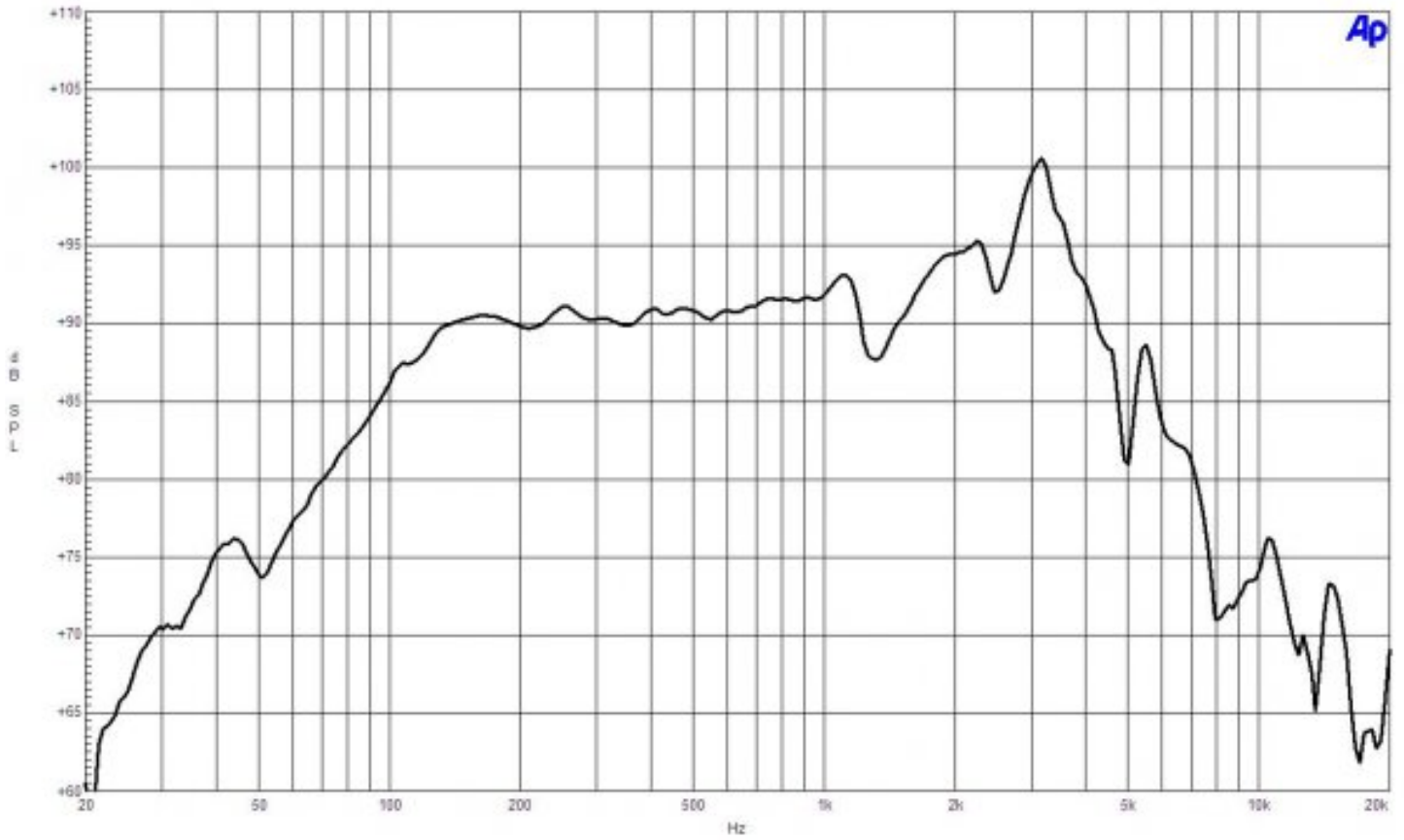
Surround Shape	<b>Roll</b>
Cone Shape	<b>Exponential</b>
Magnet Material	<b>Neodymium Inside Slug</b>
Spider	<b>Single</b>
Pole Design	<b>T-Pole</b>
Woofers Cone Treatment	<b>WP Waterproof Front Side</b>
Recommended Enclosure	<b>19 dm<sup>3</sup> (0.67 ft<sup>3</sup>)</b>
Recommended Tuning	<b>49 Hz</b>

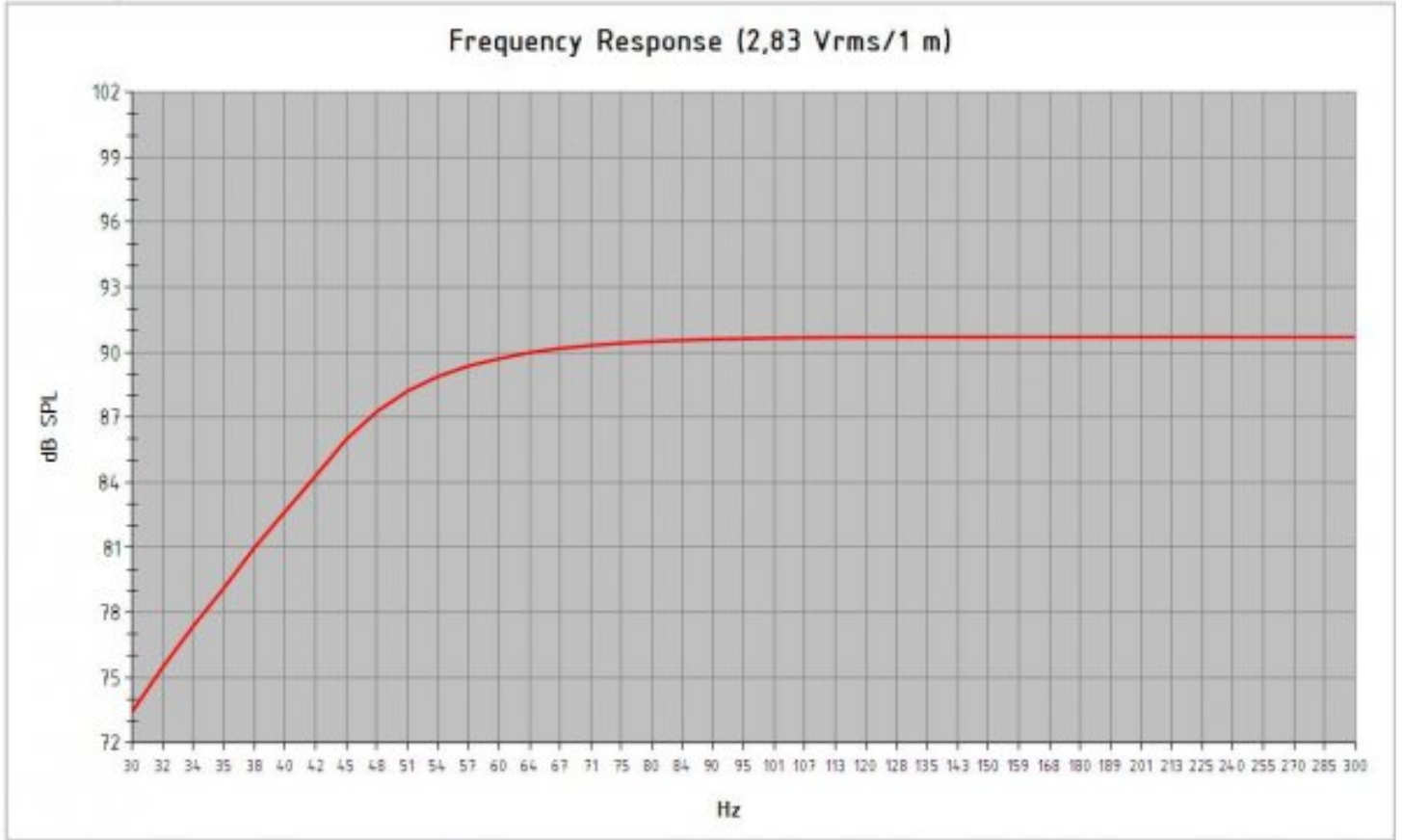
## MOUNTING AND SHIPPING INFO

Overall Diameter	<b>225 mm (8.8 in)</b>
Bolt Circle Diameter	<b>210 mm (8.3 in)</b>
Baffle Cutout Diameter	<b>187 mm (7.4 in)</b>
Depth	<b>90 mm (3.5 in)</b>
Flange and Gasket Thickness	<b>11 mm (0.43 in)</b>
Air Volume Occupied by Driver	<b>1.1 dm<sup>3</sup> (0.04 ft<sup>3</sup>)</b>
Net Weight	<b>1.85 kg (4.08 lb)</b>
Shipping Units	<b>1 pcs</b>
Shipping Weight	<b>2.3 kg (5.07 lb)</b>
Shipping Box	<b>255x255x150 mm (10.04x10.04x5.91 in)</b>

## SERVICE KITS

LF recone-kits	<b>RCK008BG518</b>
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<i>Model:</i>	<b>8 BG 51</b>		
<i>Enclosure Type:</i>	<b>Bass Reflex</b>		
<i>Internal Net Volume (Liters):</i>	<b>19</b>	<i>Port Area (cm<sup>2</sup>):</i>	<b>32,2</b>
<i>Tuning Frequency (Hz):</i>	<b>49</b>	<i>Port Length (cm):</i>	<b>15,7</b>
<i>Frequency (-3 dB) (Hz):</i>	<b>49,0</b>		
<i>Excursion Limited Maximum SPL at 1 meter (dB):</i>	<b>109,8</b>	equal to	<b>112,6</b> Watts <i>(Bass Band Power Rating)</i>
<i>Thermal Limited Maximum SPL at 1 meter (dB):</i>	<b>113,2</b>	equal to	<b>250,0</b> Watts <i>(Mid Band Power Rating)</i>

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