

**6HCX51** 8 Ω

- 300 W continuous program power capacity
- 70° nominal coverage
- 90 - 18000 Hz response
- 92 dB sensitivity
- Single Neodymium magnet assembly
- 20.1 mm (0.79") HF unit exit diameter



# 6HCX51 8 Ω

## GENERAL

|                                |                         |
|--------------------------------|-------------------------|
| Nominal Diameter               | <b>170 mm (6.5 in)</b>  |
| Nominal Impedance              | <b>8 Ω</b>              |
| Frequency Range                | <b>90 Hz - 18000 Hz</b> |
| Dispersion Angle               | <b>70 °</b>             |
| Included by -6 dB down points. |                         |

## PARAMETERS

|      |                                                 |
|------|-------------------------------------------------|
| Fs   | <b>89 Hz</b>                                    |
| Re   | <b>5.2 Ω</b>                                    |
| Qes  | <b>0.4</b>                                      |
| Qms  | <b>7.5</b>                                      |
| Qts  | <b>0.38</b>                                     |
| Vas  | <b>5 dm<sup>3</sup> (0.18 ft<sup>3</sup>)</b>   |
| Sd   | <b>132 cm<sup>2</sup> (20.5 in<sup>2</sup>)</b> |
| η0   | <b>0.8 %</b>                                    |
| Xvar | <b>5.5 mm</b>                                   |
| Mms  | <b>16 g</b>                                     |
| Bl   | <b>10.9 Tm</b>                                  |
| Le   | <b>0.8 mH</b>                                   |
| EBP  | <b>223 Hz</b>                                   |

## SPECIFICATIONS HF UNIT

|                                                                                                                                                                                               |                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Nominal Diameter                                                                                                                                                                              | <b>170 mm (6.5 in)</b> |
| Nominal Impedance                                                                                                                                                                             | <b>8 Ω</b>             |
| Minimum Impedance                                                                                                                                                                             | <b>7.5 Ω</b>           |
| Nominal Power Handling                                                                                                                                                                        | <b>25 W</b>            |
| 2 hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated minimum impedance. Loudspeaker in free air. |                        |
| Continuous Power Handling                                                                                                                                                                     | <b>50 W</b>            |
| Power on Continuous Program is defined as 3 dB greater than the Nominal rating.                                                                                                               |                        |
| Sensitivity                                                                                                                                                                                   | <b>105 dB</b>          |
| Applied RMS Voltage is set to 2.83V.                                                                                                                                                          |                        |
| Recommended Crossover                                                                                                                                                                         | <b>2.2 kHz</b>         |
| 12 dB/oct. or higher slope high-pass filter.                                                                                                                                                  |                        |
| Voice Coil Diameter                                                                                                                                                                           | <b>36 mm (1.4 in)</b>  |
| Winding Material                                                                                                                                                                              | <b>Aluminium</b>       |
| Inductance                                                                                                                                                                                    | <b>0.06 mH</b>         |
| Flux Density                                                                                                                                                                                  | <b>1.8 T</b>           |
| Diaphragm Material                                                                                                                                                                            | <b>Polyester</b>       |

## SPECIFICATIONS LF UNIT

|                                                                                                                                                     |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Nominal Diameter                                                                                                                                    | <b>170 mm (6.5 in)</b>           |
| Nominal Impedance                                                                                                                                   | <b>8 Ω</b>                       |
| Minimum Impedance                                                                                                                                   | <b>6 Ω</b>                       |
| Nominal Power Handling                                                                                                                              | <b>150 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>300 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 2.83V.                                                                                                                |                                  |
| Voice Coil Diameter                                                                                                                                 | <b>51 mm (2 in)</b>              |
| Winding Material                                                                                                                                    | <b>Copper</b>                    |
| Former Material                                                                                                                                     | <b>Kapton</b>                    |
| Winding Depth                                                                                                                                       | <b>13 mm (0.51 in)</b>           |
| Magnetic Gap Depth                                                                                                                                  | <b>6 mm (0.24 in)</b>            |
| Flux Density                                                                                                                                        | <b>1.1 T</b>                     |
| Woofer Cone Treatment                                                                                                                               | <b>TWP Waterproof Both Sides</b> |

## DESIGN

|                       |                                  |
|-----------------------|----------------------------------|
| Magnet Material       | <b>Neodymium Ring</b>            |
| Woofer Cone Treatment | <b>TWP Waterproof Both Sides</b> |

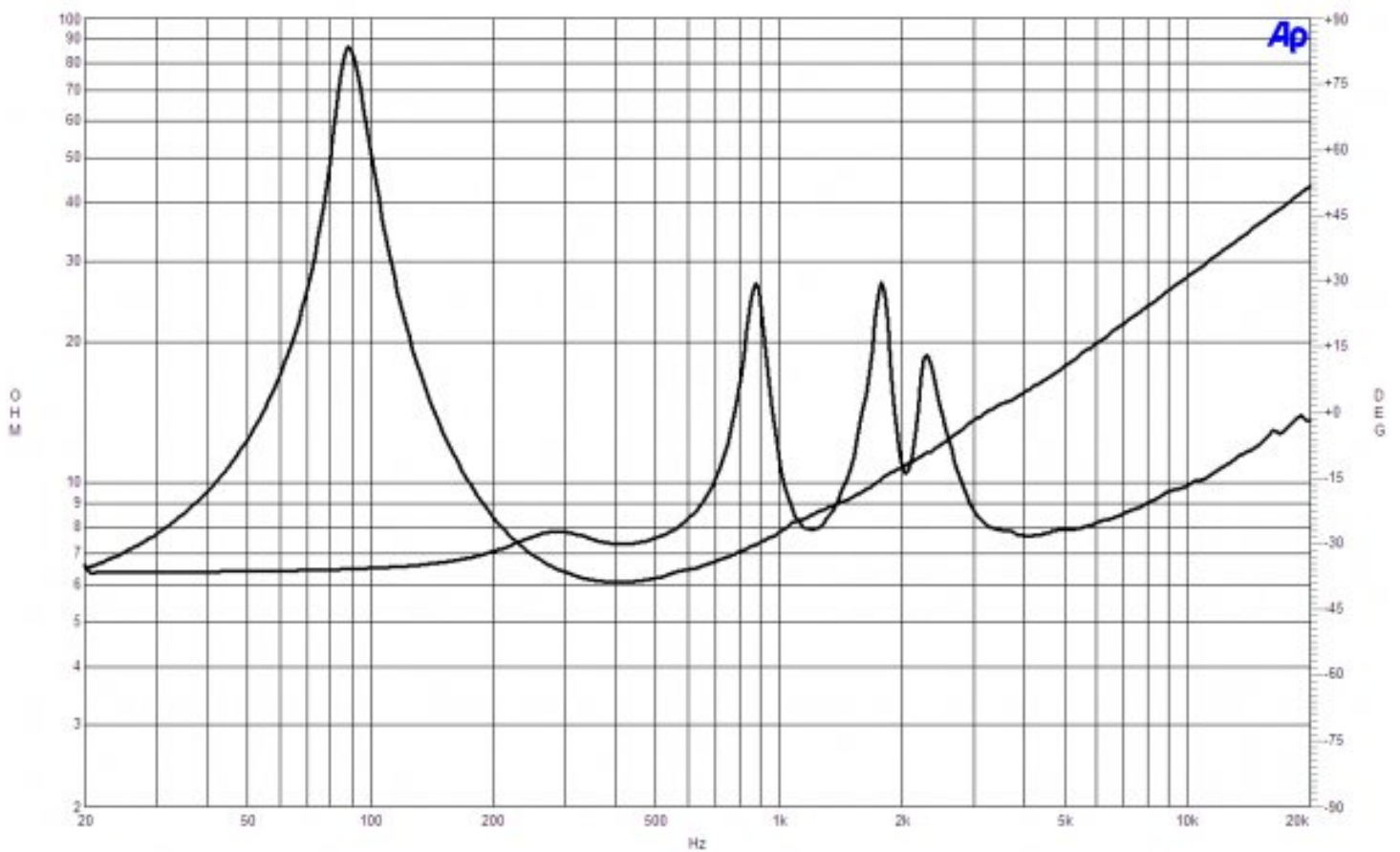
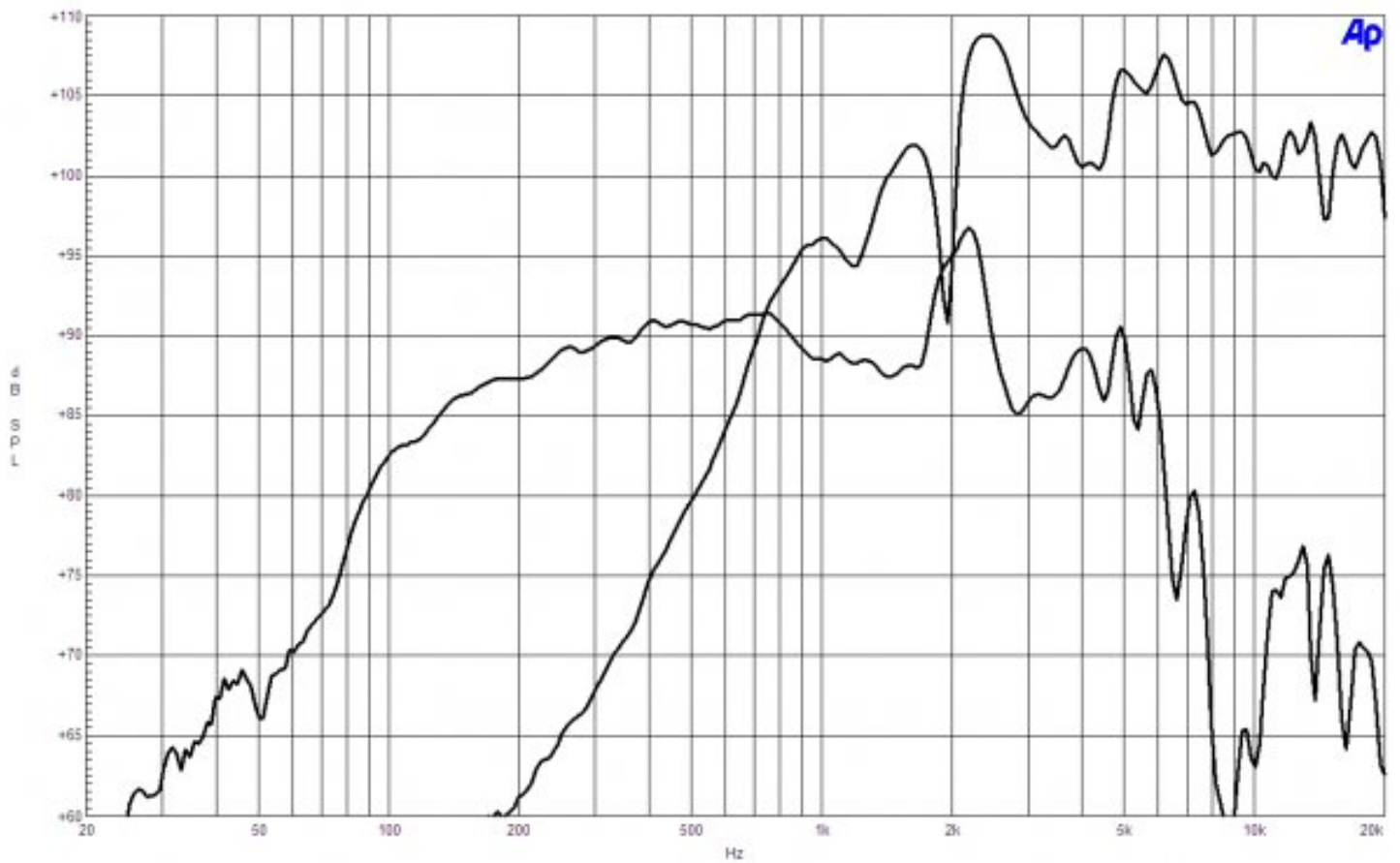
## MOUNTING AND SHIPPING INFO

|                             |                                             |
|-----------------------------|---------------------------------------------|
| Overall Diameter            | <b>187 mm (7.4 in)</b>                      |
| Bolt Circle Diameter        | <b>172 mm (6.7 in)</b>                      |
| Baffle Cutout Diameter      | <b>146 mm (5.75 in)</b>                     |
| Depth                       | <b>104 mm (4.1 in)</b>                      |
| Flange and Gasket Thickness | <b>11 mm (0.4 in)</b>                       |
| Net Weight                  | <b>1.6 kg (3.53 lb)</b>                     |
| Shipping Units              | <b>1 pcs</b>                                |
| Shipping Weight             | <b>2.05 kg (4.52 lb)</b>                    |
| Shipping Box                | <b>255x255x150 mm (10.04x10.04x5.91 in)</b> |

## SERVICE KITS

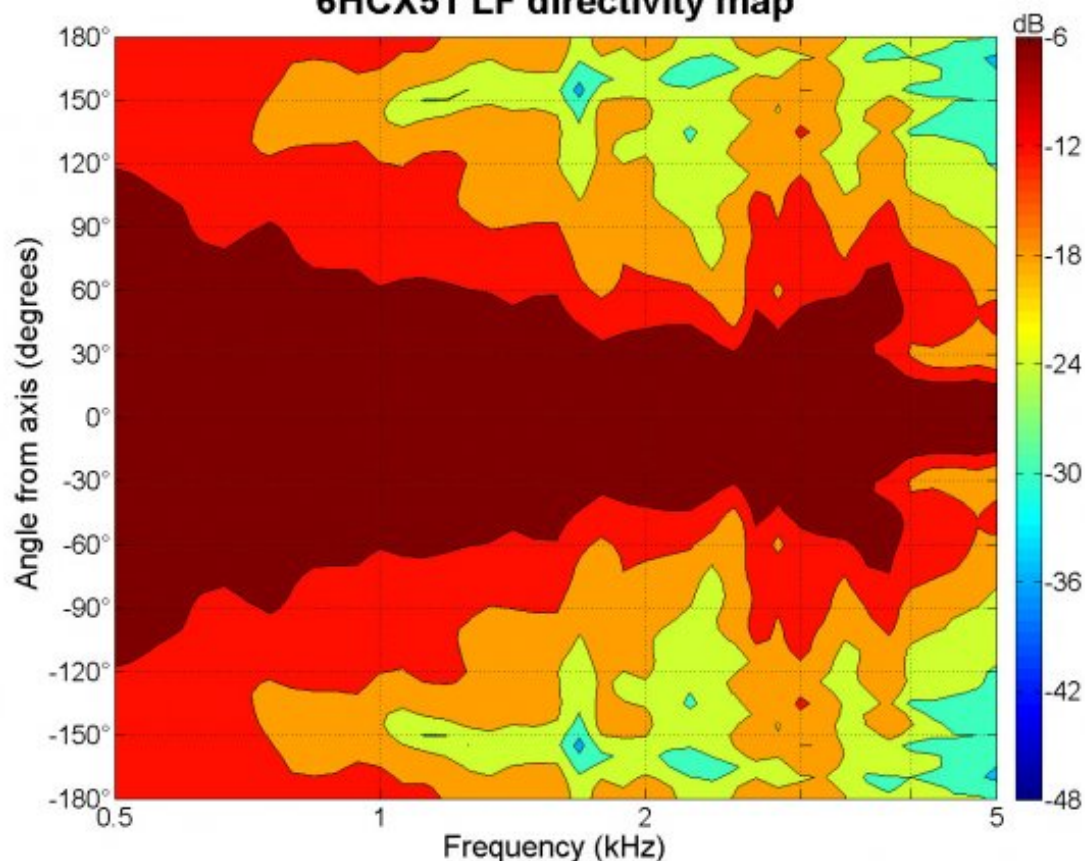
|                          |                    |
|--------------------------|--------------------|
| HF replacement-diaphragm | <b>MMD0128</b>     |
| LF recone-kits           | <b>RCK06HCX518</b> |

## 6HCX51 8 Ω

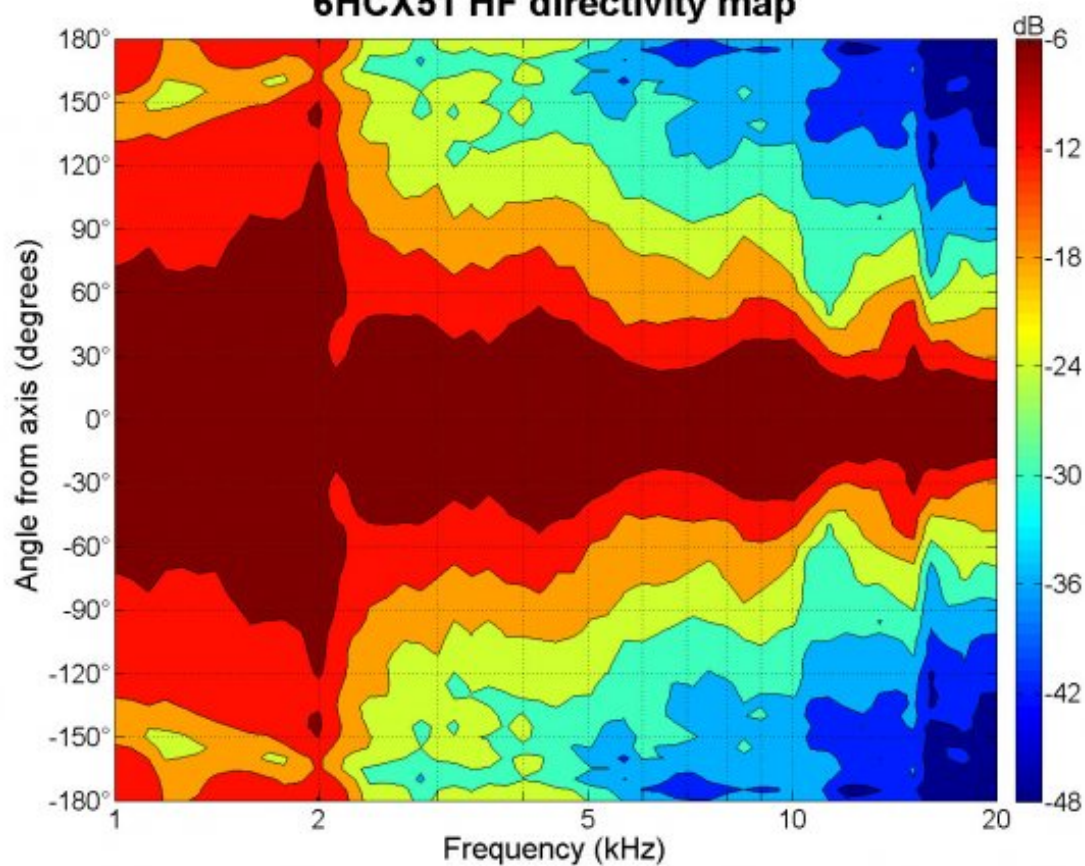


**6HCX51** 8 Ω

**6HCX51 LF directivity map**

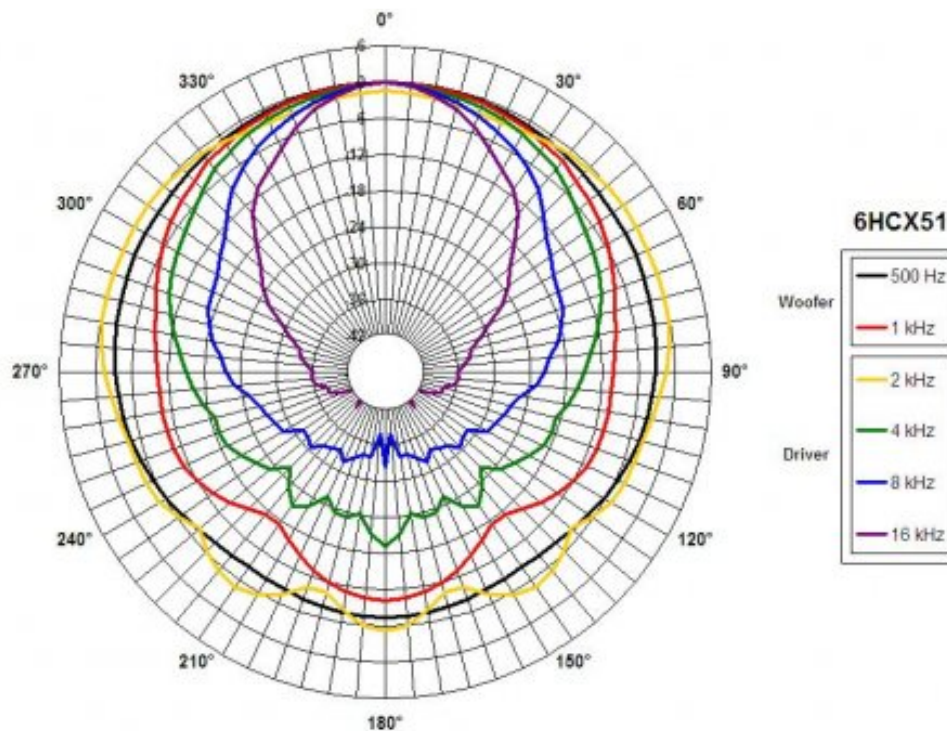


**6HCX51 HF directivity map**

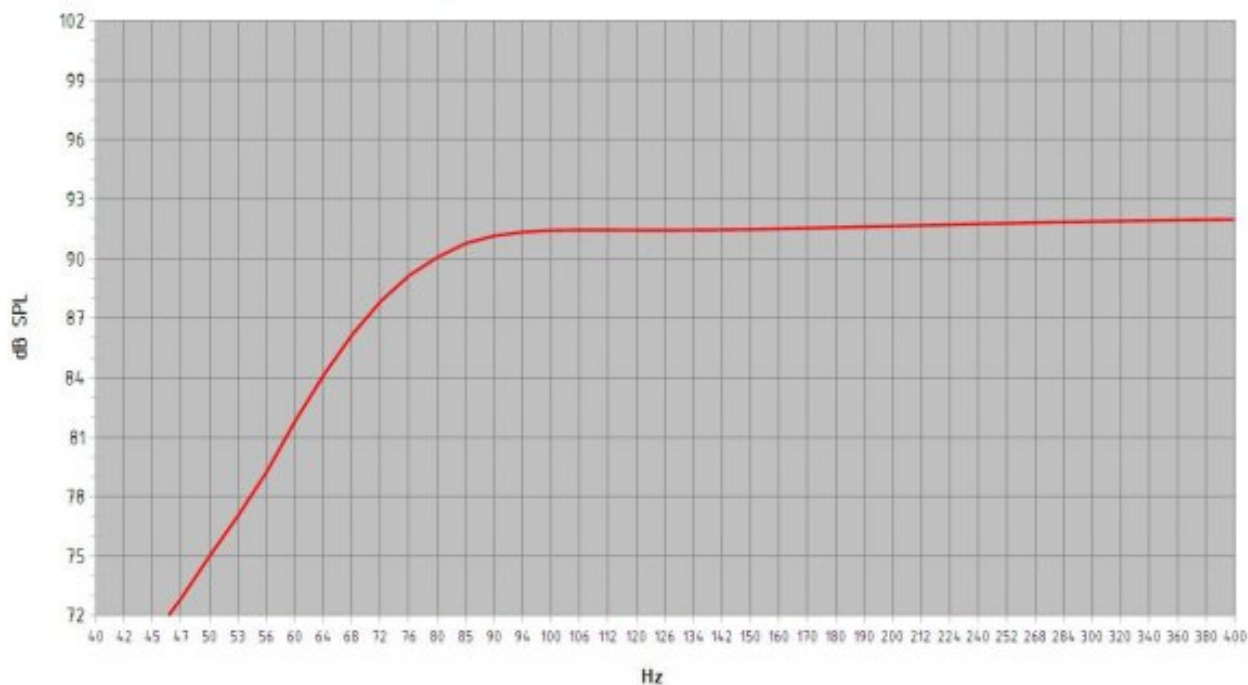




## 6HCX51 8 Ω



Frequency Response (2,83 Vrms/1 m)



Model: **6 HCX 51**  
Enclosure Type: **Bass Reflex**

Internal Net Volume (Liters): **7**  
Tuning Frequency (Hz): **80**  
Frequency (-3 dB) (Hz): **76,0**

Port Area (cm<sup>2</sup>): **30,4**  
Port Length (cm): **15,0**

Excursion Limited Maximum SPL at 1 meter (dB): **109,7** equal to **75,6** Watts (Bass Band Power Rating)  
Thermal Limited Maximum SPL at 1 meter (dB): **112,7** equal to **150,0** Watts (Mid Band Power Rating)



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**B&C Speakers S.p.A.** Via Poggiomoro, 1 - Loc. Vallina, 50012 Bagno a Ripoli (FI) | ITALY  
Tel. +39 055 65721 | Fax +39 055 6572312 | mail@bcspeakers.com

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