

## 8CXN51 8 Ω

- 500 W continuous program power capacity
- 100° nominal coverage
- 70 - 18000 Hz response
- 97 dB sensitivity
- Single Neodymium magnet assembly



**8CXN51** 8 Ω**GENERAL**

Nominal Diameter	<b>210 mm (8 in)</b>
Nominal Impedance	<b>8 Ω</b>
Frequency Range	<b>70 Hz - 18000 Hz</b>
Dispersion Angle	<b>100 °</b>
Included by -6 dB down points.	

**PARAMETERS**

Fs	<b>68 Hz</b>
Re	<b>4.9 Ω</b>
Qes	<b>0.29</b>
Qms	<b>4.7</b>
Qts	<b>0.27</b>
Vas	<b>17 dm<sup>3</sup> (0.6 ft<sup>3</sup>)</b>
Sd	<b>220 cm<sup>2</sup> (34.1 in<sup>2</sup>)</b>
η0	<b>1.8 %</b>
Xvar	<b>6 mm</b>
Mms	<b>22 g</b>
Bl	<b>12.6 Tm</b>
Le	<b>0.9 mH</b>
EBP	<b>234 Hz</b>

**SPECIFICATIONS HF UNIT**

Nominal Diameter	<b>210 mm (8 in)</b>
Nominal Impedance	<b>8 Ω</b>
Minimum Impedance	<b>7.4 Ω</b>
Nominal Power Handling	<b>50 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>100 W</b>
Power on Continuous Program is defined as 3 dB greater than the Nominal rating.	
Sensitivity	<b>104 dB</b>
Applied RMS Voltage is set to 2.83V.	
Recommended Crossover	<b>1.8 kHz</b>
12 dB/oct. or higher slope high-pass filter.	
Voice Coil Diameter	<b>44 mm (1.7 in)</b>
Winding Material	<b>Aluminium</b>
Inductance	<b>0.11 mH</b>
Flux Density	<b>1.8 T</b>
Diaphragm Material	<b>Polyimide</b>

**SPECIFICATIONS LF UNIT**

Nominal Diameter	<b>210 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>97 dB</b>
Applied RMS Voltage is set to 2.83V.	
Voice Coil Diameter	<b>51 mm (2 in)</b>
Winding Material	<b>Aluminium</b>
Former Material	<b>Glass Fibre</b>
Winding Depth	<b>17 mm (0.67 in)</b>
Magnetic Gap Depth	<b>8 mm (0.31 in)</b>
Flux Density	<b>1.15 T</b>
Woofer Cone Treatment	<b>WP Waterproof Front Side</b>

**DESIGN**

Magnet Material	<b>Neodymium Ring</b>
Woofer Cone Treatment	<b>WP Waterproof Front Side</b>

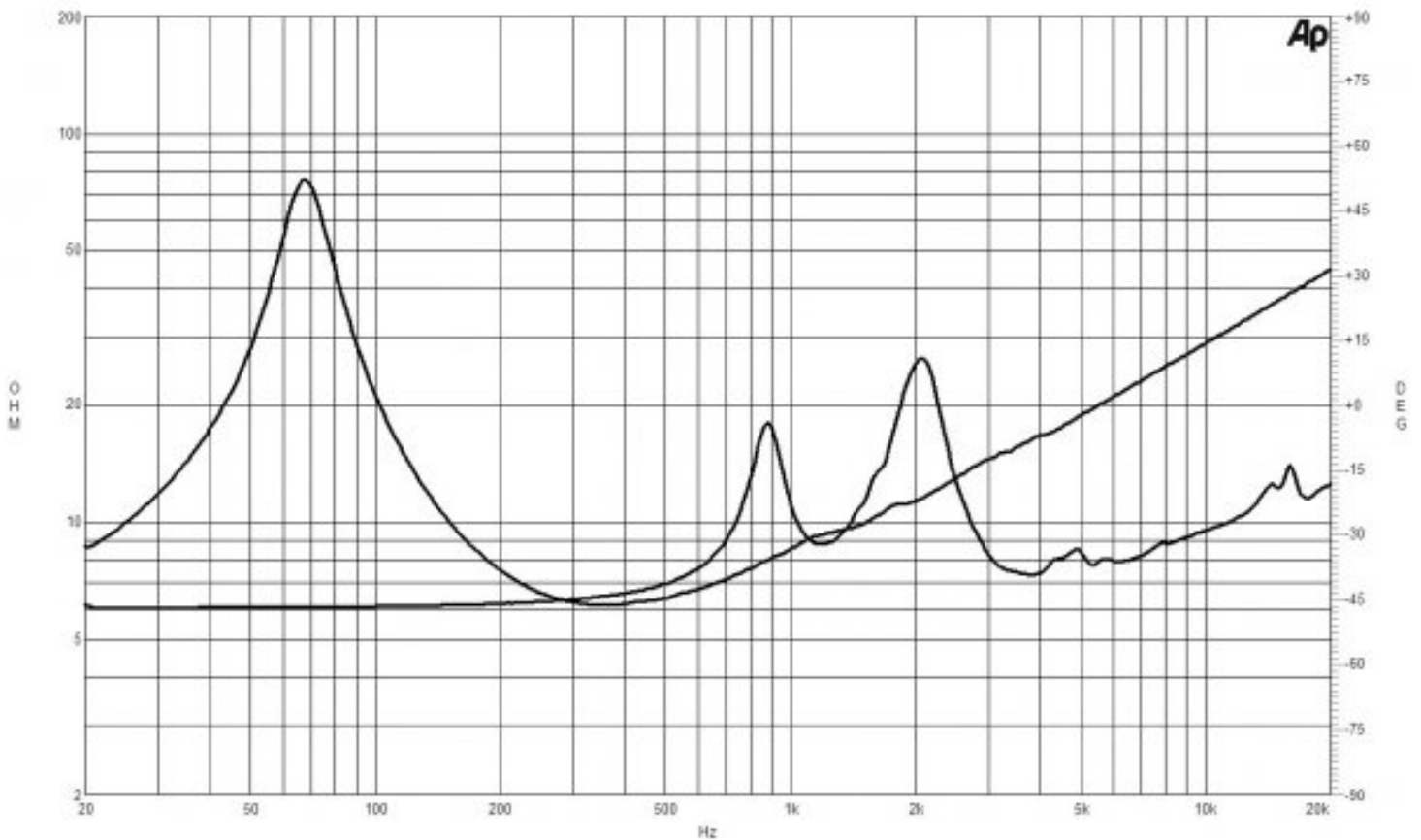
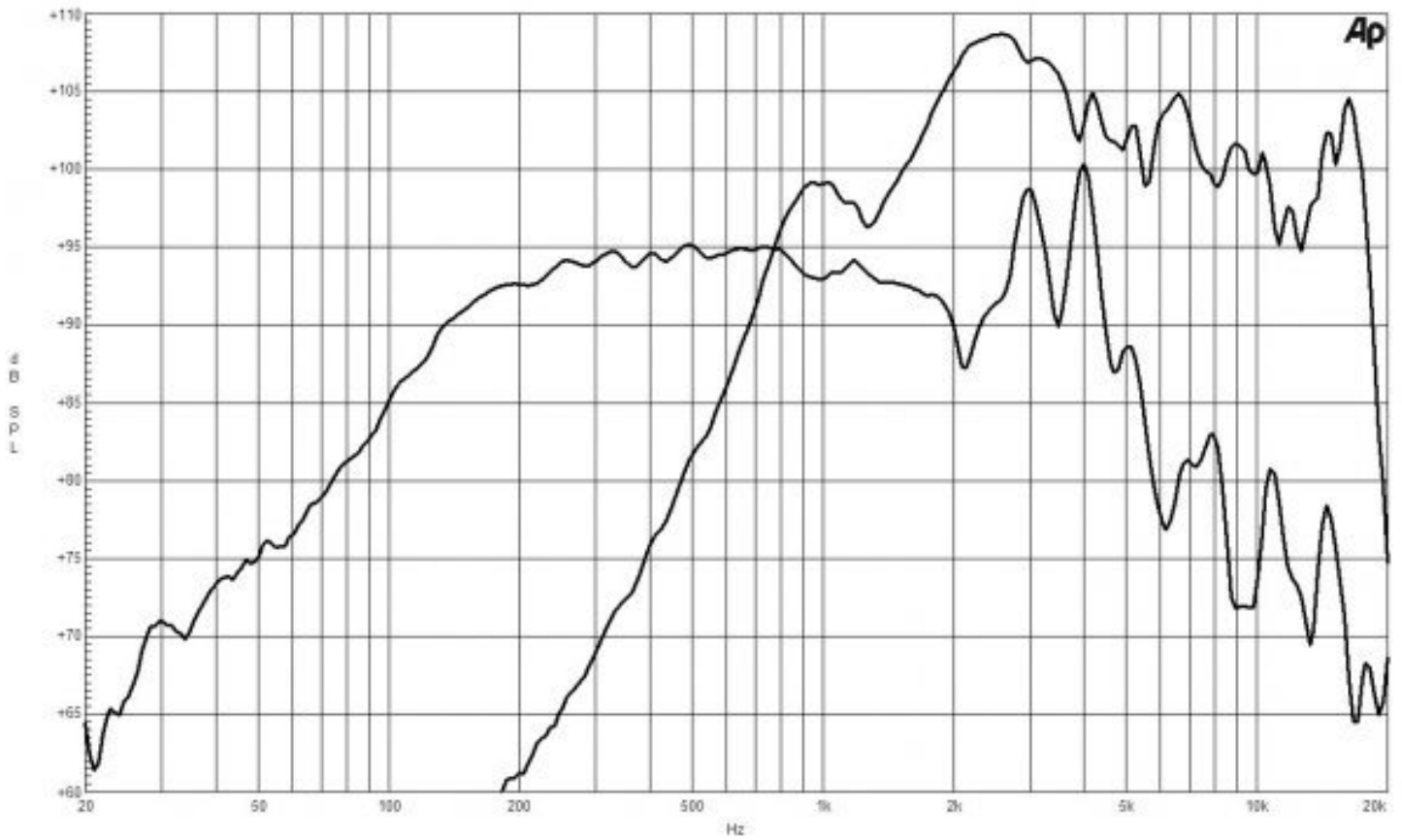
**MOUNTING AND SHIPPING INFO**

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>111 mm (4.4 in)</b>
Flange and Gasket Thickness	<b>10 mm (0.4 in)</b>
Net Weight	<b>2.6 kg (5.73 lb)</b>
Shipping Units	<b>1 pcs</b>
Shipping Weight	<b>3.2 kg (7.05 lb)</b>
Shipping Box	<b>295x314x175 mm (11.61x12.36x6.89 in)</b>

**SERVICE KITS**

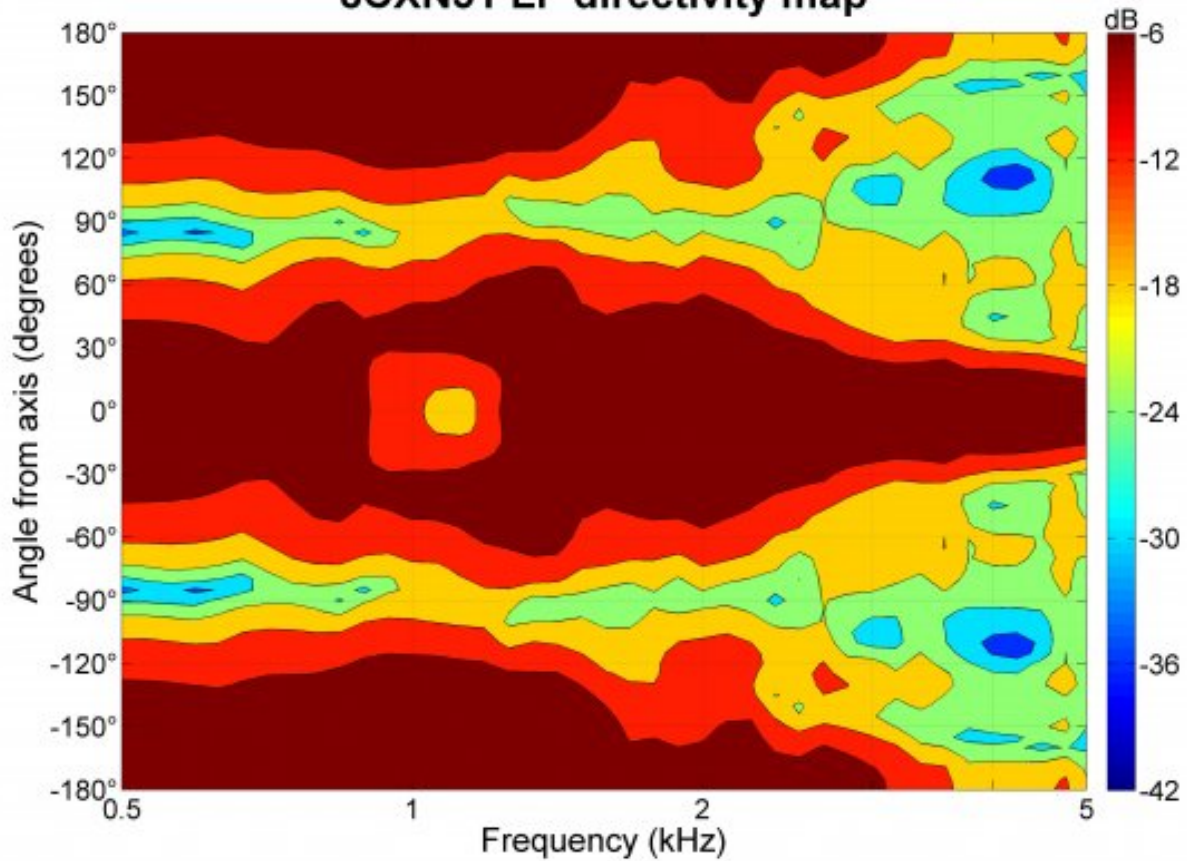
HF replacement-diaphragm	<b>MMD4008</b>
LF recone-kits	<b>RCK008CXN518</b>

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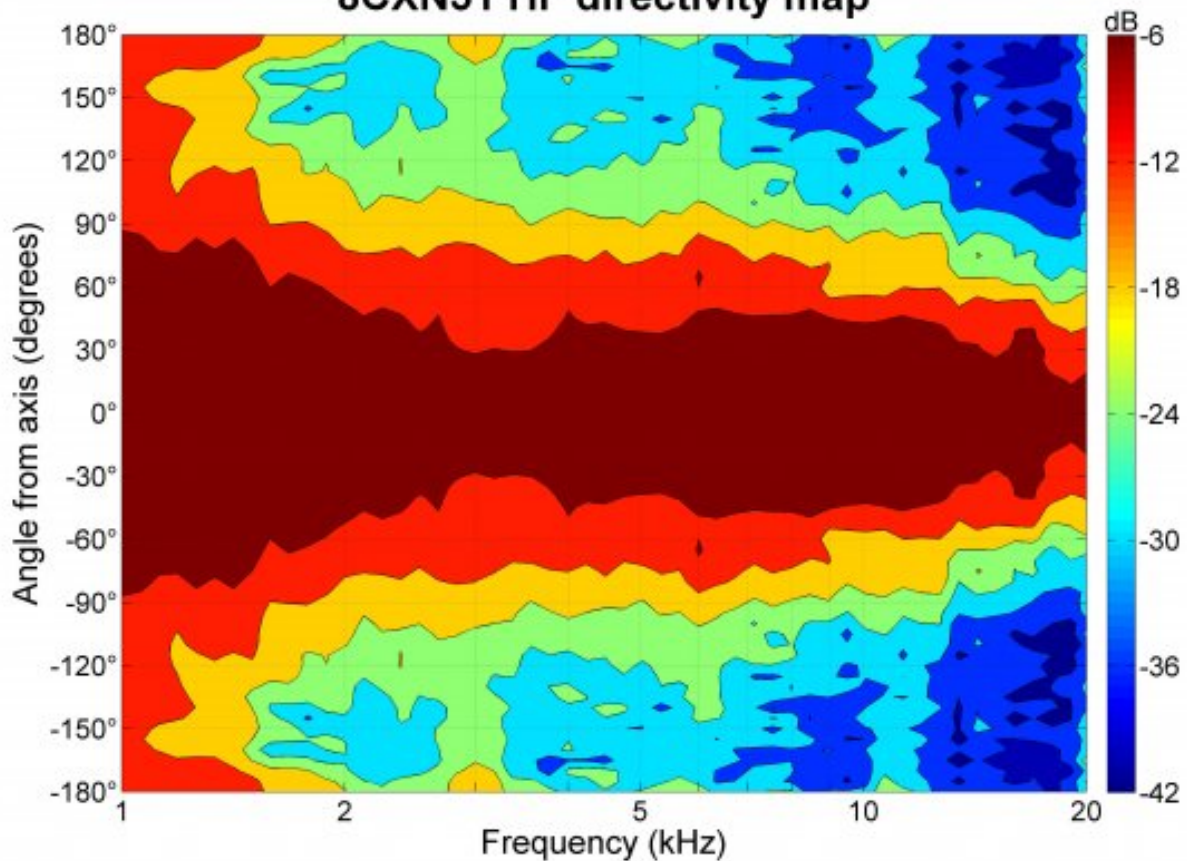


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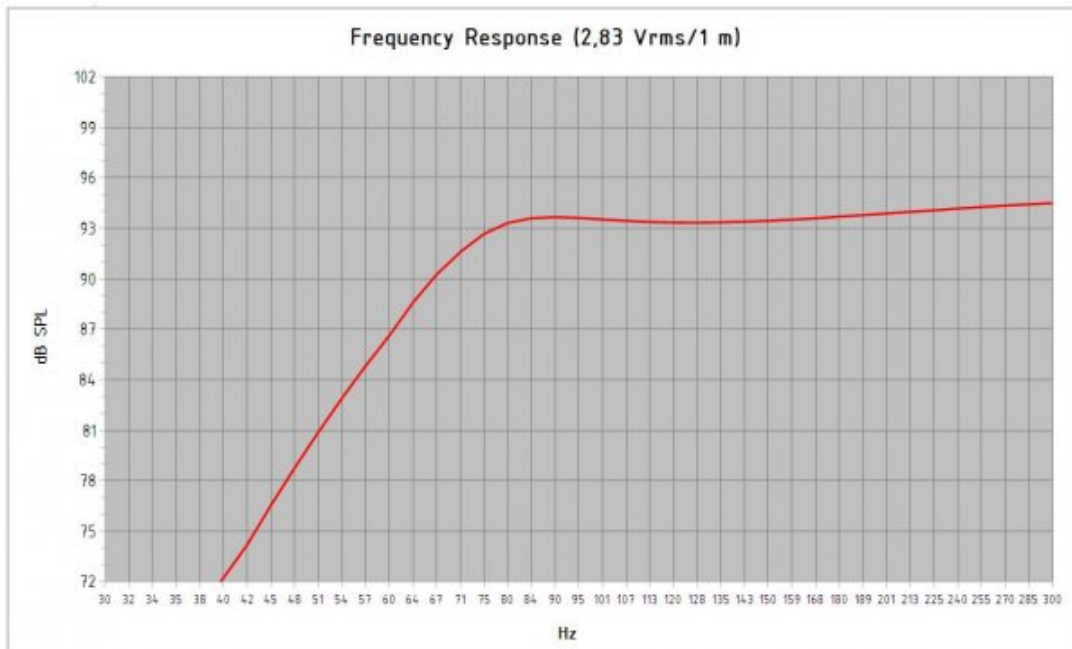
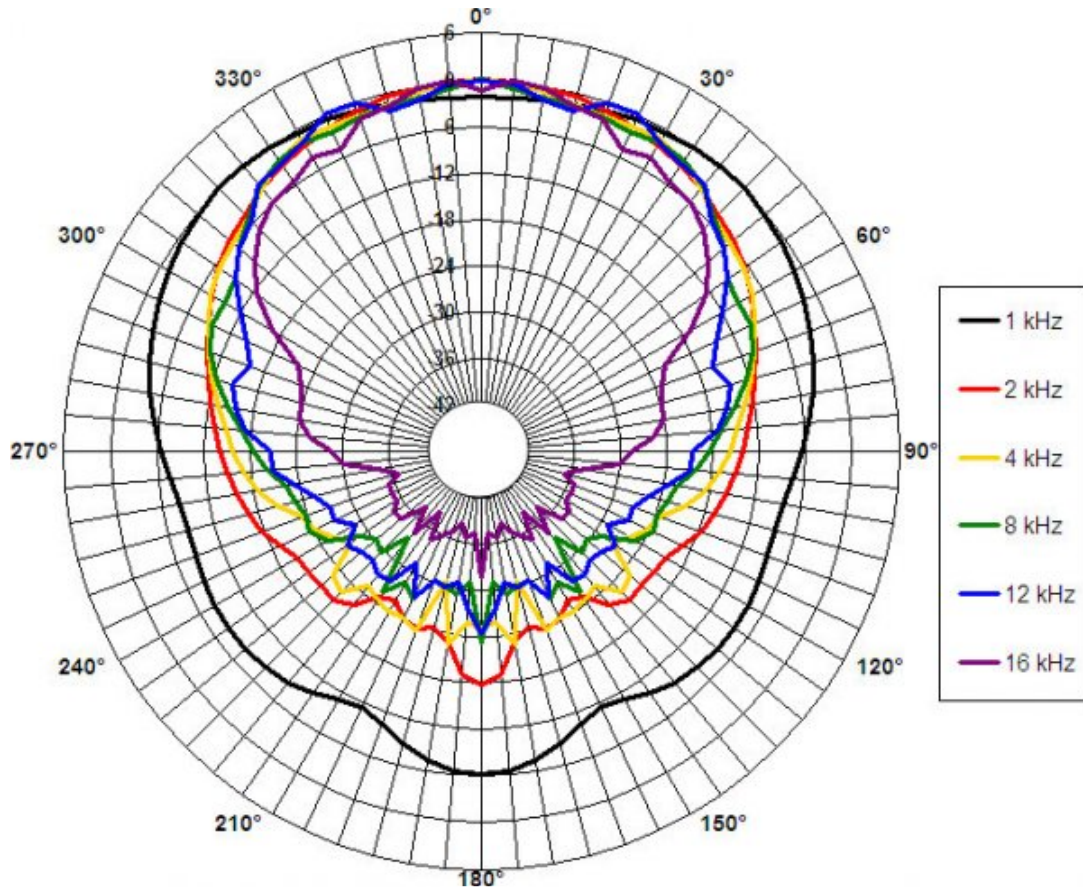
8CXN51 LF directivity map



8CXN51 HF directivity map



## 8CXN51 8 Ω



Model:	<b>8 CXN 51</b>		
Enclosure Type:	<b>Bass Reflex</b>		
Internal Net Volume (Liters):	<b>15</b>	Port Area (cm <sup>2</sup> ):	<b>43,0</b>
Tuning Frequency (Hz):	<b>73</b>	Port Length (cm):	<b>9,7</b>
Frequency (-3 dB) (Hz):	<b>73,6</b>		
Excursion Limited Maximum SPL at 1 meter (dB):	<b>114,3</b> equal to	<b>105,8</b> Watts	(Bass Band Power Rating)
Thermal Limited Maximum SPL at 1 meter (dB):	<b>118,1</b> equal to	<b>250,0</b> Watts	(Mid Band Power Rating)

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