**ABS SPHERICAL LOUDSPEAKERS**

› **GB20T/EN**

› **GB20T/ENC**

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**TECHNICAL SPECIFICATIONS**

EN54-24:2008  
Certificate No: 0359-CPR-00290 TYPE B

**ELECTRICAL**

Rated power, Watts 20  
Tappings 100 volt line, Watts 20/10/5/2.5  
Transformer Impedance, Ohms 100V 500/1k/2k/4k  
Tappings 70.7 volt line, Watts 10/5/2.5/1.25  
Driver impedance, Ohms 8  
Effective Frequency Range, Hz (BSEN60268-5) 80-18,000  
S.P.L. @ 4m, 1watt, dB, 1/3 Octave, 1KHz 78  
S.P.L. @ 1m, 1watt, dB, Test Signal Bandwidth 100Hz-10kHz 97  
S.P.L. @ 4m, Full power, dB, 1/3 Octave 1KHz 85  
S.P.L. @ 1m, Full power, Test Signal Bandwidth 100Hz-10kHz 110  
Dispersion at 1k/2k Hz, Degrees 82/37 Horizontal 90/35 Vertical

**ENVIRONMENTAL**

IP-Rating 33  
Max/Min Amb Temp 70°/-25°C  
Relative Humidity ≤95%

**MECHANICAL**

Dimensions, WxHxD mm 254 x 254 x 254  
Net Weight, Kgs 2.4  
Colour (Unless Specified) RAL9016  
Material Low smoke zero halogen UL-94VO Plastic with UV inhibitors  
Mounting Pendant hung

- GB20T/ENC is supplied with capacitor for DC line monitoring
- For UK supply only a 3m cable tail is fitted as standard. We can supply different lengths on request. Because the cable tail is pre-fitted the tapping needs to be specified when ordering otherwise the speaker will be tapped at 10w. **For all other countries** the GB 20T/EN & ENC will **NOT** be supplied with a cable tail.
- Recommended for internal use only

**JANUARY 2017**
GB20T/EN & GB20T/ENC has been tested in 100 hours max power (10W). The model does not deviate by more than ±3dB from the original test value. The frequency response curve and impedance complies with the original one. All SPL tests are performed in an anechoic chamber (<70m³).

**Frequency Response**

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>SPL (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>60</td>
</tr>
<tr>
<td>200</td>
<td>70</td>
</tr>
<tr>
<td>500</td>
<td>80</td>
</tr>
<tr>
<td>1k</td>
<td>90</td>
</tr>
<tr>
<td>2k</td>
<td>100</td>
</tr>
<tr>
<td>5k</td>
<td>110</td>
</tr>
</tbody>
</table>

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**Dispersions Angles**

<table>
<thead>
<tr>
<th>1 OCT.PINK NOISE</th>
<th>Horizontal</th>
<th>Vertical</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 Hz</td>
<td>154°</td>
<td>149°</td>
</tr>
<tr>
<td>1K Hz</td>
<td>82°</td>
<td>90°</td>
</tr>
<tr>
<td>2K Hz</td>
<td>37°</td>
<td>35°</td>
</tr>
<tr>
<td>4K Hz</td>
<td>20°</td>
<td>18°</td>
</tr>
</tbody>
</table>

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**With Transformer: 100V/70V Line**

<table>
<thead>
<tr>
<th>100V (2.5W 5W 10W 20W COM)</th>
<th>70V (1.25W 2.5W 5W 10W COM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMP(Ω) 4K 2K 1K 500</td>
<td></td>
</tr>
</tbody>
</table>

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**Circuit Diagram**

- 100V COM
- Thermal Fuse
- 20W
- 10W
- 5W
- 2.5W
- GB20T/ENC with capacitor

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**RoHS**