8 Ohm Speakers

Specifications

Rated impedance at 1kHz/1V: 8Ω ±15%Ω
Rated input power: 2W
Maximum input power: 3W
Resonant Frequency (f0) / 1V: 500Hz ±20%Hz
Frequency Range: 0Hz-5kHz
Sound pressure level at 1kHz/1W/0.5m baffleboard (IEC): 85 ±3dB
Total harmonic distortion at 1kHz/1W: 5%Max
Voice coil diameter: 13.3mm
Magnet (Nd-Fe-B): 32mm × 18mm × 6mm
Operating Temperature: -20°C to +60°C
Storage Temperature: -25°C to +70°C
Weight: 50g ±10%

Material
Frame & Yoke - SPCC
PCB terminal - Paper Cu
Diaphragm & Cap - Mylar
Voice coil - Cu
Magnet - Ferrite

IP rating - IP67
Polarity - When a positive DC current is applied to the voice coil terminal marked +or red, the diaphragm shall move forward
Buzz, rattle - Must be free of audible noise (buzzes and rattles) at 4Vsine wave between F0-2,000Hz.
8 Ohm Speakers

Important Notice: This data sheet and its contents (the “Information”) belong to the members of the AvNET group of companies (the “Group”) or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group’s liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>High temp. Test</strong></td>
<td>Keep 96 hours at +70°C ±3°C and leave 3 hours in normal temperature and then check.</td>
</tr>
<tr>
<td><strong>Low temp. Test</strong></td>
<td>Keep 96 hours at -30°C ±3°C and leave 3 hours in normal temperature and then check.</td>
</tr>
<tr>
<td><strong>Humidity test</strong></td>
<td>Keep 96 hours at +40°C ±3°C relative humidity 90 ±5% and leave 3 hours in normal temperature and then checked.</td>
</tr>
<tr>
<td><strong>Thermal cycle test.</strong></td>
<td>Low temperature: -20°C ±3°C, temperature: +60°C ±3°C, cycle: 1 hour/cycle each, and then keep 5 cycles in a room.</td>
</tr>
<tr>
<td><strong>Vibration</strong></td>
<td>Speaker shall be measured after being applied vibration of amplitude of 1.52mm with 10 to 55Hz band of vibration frequency to each of X, Y, Z 3 direction for 2 hours</td>
</tr>
<tr>
<td><strong>Drop test</strong></td>
<td>Drop the speakers contained in normal box onto the board 40mm thick 10 times from the height of 75cm.</td>
</tr>
<tr>
<td><strong>Load test</strong></td>
<td>Rated Power white noise is applied for 96 hours.</td>
</tr>
<tr>
<td><strong>Terminal strength test</strong></td>
<td>Capable of withstand 1N load for 30 seconds without resulting in any damage or rejection.</td>
</tr>
</tbody>
</table>

Test Condition

**STANDARD**
Temperature: 15°C to 35°C
Relative humidity: 45% to 85%,
Atmospheric pressure: 860mbar to 1060mbar.

**JUDGEMENT**
Temperature: 20 ±3°C
Relative humidity: 60% to 70%,
Atmospheric pressure: 860mbar to 1060mbar

**Standard Test Fixture**
Input Power: 1W
Zero Level: 0dB
Mode: TSR
Potentiometer Range: 50dB
Sweep Time: 0.5sec

Part Number Table

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaker, Mylar Cone, 8ohm, 2W, 66mm Dia</td>
<td>MP004284</td>
</tr>
</tbody>
</table>

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
Element14.com/multicomp-pro