8 Ohm Speakers

Specifications

- **Rated impedance at 1kHz/1V**: 8Ω ±15%Ω
- **Rated input power**: 12W
- **Maximum input power**: 15W
- **Resonant Frequency (f0) / 1V**: 550Hz ±20%Hz
- **Frequency Range**: 0Hz-10kHz
- **SPL at 1kHz/1W/1m baffleboard (IEC)**: 87 ±3dB
- **Total harmonic distortion at 1kHz/1W**: 5%Max
- **Voice coil diameter**: 13.28mm
- **Magnet (Nd-Fe-B)**: 60mm × 10mm
- **Operating Temperature**: -20°C to +60°C
- **Storage Temperature**: -25°C to +70°C
- **Weight**: 270g ±10%

Material

- Frame & Yoke - SPCC
- PCB terminal - Paper Cu
- Diaphragm & Cap - PET
- Gasket - Paper
- Voice coil - Cu
- Magnet - NdFeB

Dimensions: Millimetres

**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 9.79V sine wave between F0-2,000Hz.
## 8 Ohm Speakers

### Part Number Table

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaker, Mylar Cone, 8ohm, 12W, 87mm × 87mm</td>
<td>MP004285</td>
</tr>
</tbody>
</table>

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### 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: -dB
- Mode: TSR
- Potentiometer Range: 50dB
- Sweep Time: 0.5sec

### Vibration

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

### Drop test

Drop the speakers contained in normal box onto the board 40mm thick 10 times from the height of 75cm

### Load test

Rated Power white noise is applied for 96 hours

### Terminal strength test

Capable of withstand 1N load for 30 seconds without resulting in any damage or rejection.

### Test Condition

<table>
<thead>
<tr>
<th>Item</th>
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</tr>
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<tr>
<td>High temp. Test</td>
<td>Keep 96 hours at +70°C ±3°C and leave 3 hours in normal temperature and then check</td>
</tr>
<tr>
<td>Low temp. Test</td>
<td>Keep 96 hours at -25°C ±3°C and leave 3 hours in normal temperature and then check</td>
</tr>
<tr>
<td>Humidity test</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>Thermal cycle test.</td>
<td>Low temperature: -27°C ±3°C , temperature: +70°C ±3°C, cycle: 1 hour/ cycle each, and then keep 5 cycles in a room.</td>
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**X = 100cm**

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