SERIES: CMS-160925-078X-67 | DESCRIPTION: SPEAKER

FEATURES
- IP67 rated face
- protection against dust and water ingress
- micro-speaker
- 2.5 mm height
- 3 available contact methods

SPECIFICATIONS

<table>
<thead>
<tr>
<th>parameter</th>
<th>conditions/description</th>
<th>min</th>
<th>typ</th>
<th>max</th>
<th>units</th>
</tr>
</thead>
<tbody>
<tr>
<td>input power</td>
<td>max power: as per IEC-268-5, in 1 cc box</td>
<td>0.7</td>
<td>1.0</td>
<td></td>
<td>W</td>
</tr>
<tr>
<td>impedance</td>
<td>at 2.0 kHz, 2.37 Vrms</td>
<td>6.8</td>
<td>8</td>
<td>9.2</td>
<td>Ω</td>
</tr>
<tr>
<td>coil resistance</td>
<td></td>
<td>6.48</td>
<td>7.2</td>
<td>7.92</td>
<td>Ω</td>
</tr>
<tr>
<td>resonant frequency (Fo)</td>
<td>at 1.0 Vrms in free air, 10 cm</td>
<td>440</td>
<td>550</td>
<td>660</td>
<td>Hz</td>
</tr>
<tr>
<td></td>
<td>at 2.37 Vrms, in 1 cc box, 10 cm</td>
<td>680</td>
<td>850</td>
<td>1,020</td>
<td>Hz</td>
</tr>
<tr>
<td>frequency response</td>
<td></td>
<td>100</td>
<td>20,000</td>
<td></td>
<td>Hz</td>
</tr>
<tr>
<td>sound pressure level</td>
<td>at 0.7 W, 10 cm, avg 0.8, 1.0, 1.5, 2.0 kHz, 1 cc box</td>
<td>87</td>
<td>90</td>
<td>93</td>
<td>dB</td>
</tr>
<tr>
<td>distortion</td>
<td>at 800~1,200 Hz, 2.37 Vrms, 10 cm</td>
<td>15</td>
<td></td>
<td></td>
<td>%</td>
</tr>
<tr>
<td></td>
<td>at 1,201~5,000 Hz, 2.37 Vrms, 10 cm</td>
<td>10</td>
<td></td>
<td></td>
<td>%</td>
</tr>
<tr>
<td>buzz, rattle, etc.</td>
<td>must be normal at sine wave, 0.2~2 kHz, 1 cc box</td>
<td></td>
<td>2.37</td>
<td>Vrms</td>
<td></td>
</tr>
<tr>
<td>polarity</td>
<td>cone moves forward w/ positive dc current to “+” terminal</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>dimensions</td>
<td>16 x 9 x 2.5</td>
<td></td>
<td></td>
<td></td>
<td>mm</td>
</tr>
<tr>
<td>magnet</td>
<td>Nd-Fe-B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>cone material</td>
<td>mylar</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>weight</td>
<td></td>
<td>1.3</td>
<td></td>
<td></td>
<td>g</td>
</tr>
<tr>
<td>operating temperature</td>
<td></td>
<td>-20</td>
<td></td>
<td>70</td>
<td>ºC</td>
</tr>
<tr>
<td>storage temperature</td>
<td></td>
<td>-40</td>
<td></td>
<td>85</td>
<td>ºC</td>
</tr>
<tr>
<td>hand soldering</td>
<td>for maximum 3 seconds (N/A for spring contacts)</td>
<td></td>
<td></td>
<td>380</td>
<td>ºC</td>
</tr>
<tr>
<td>RoHS</td>
<td>yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IP level</td>
<td>IP67 (front side)</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Notes: 1. All specifications measured at 15~35ºC, humidity at 25~75%, under 86~106 kPa pressure, unless otherwise noted.

PART NUMBER KEY

CMS-160925-078 XX - 67

Base Number

Termination Options:
S = spring contacts
SP = solder pads
L100 = wire leads
MECHANICAL DRAWINGS

units: mm
tolerance: ±0.2 mm

SPRING CONTACTS

SOLDER PADS

WIRE LEADS

wire: UL 1571, 32 AWG
RESPONSE CURVES

**Frequency Response Curve**
Test Conditions: 2.37 Vrms / 10 cm in 1 cc box

![Frequency Response Curve](image)

**Total Harmonic Distortion Curve**
Test Conditions: 2.37 Vrms / 10 cm in 1 cc box

![Total Harmonic Distortion Curve](image)
PACKAGING

units: mm

Tray QTY: 100 pcs per tray
Carton Size: 470 x 300 x 310 mm
Carton QTY: 5,000 pcs per carton
REVISION HISTORY

<table>
<thead>
<tr>
<th>rev.</th>
<th>description</th>
<th>date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>initial release</td>
<td>07/23/2018</td>
</tr>
<tr>
<td>1.01</td>
<td>brand update</td>
<td>01/24/2020</td>
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The revision history provided is for informational purposes only and is believed to be accurate.

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