MODEL: CMS-2854-158SP | DESCRIPTION: SPEAKER

FEATURES
• 8 ohm
• rated 1.5 W
• solder pads

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></td>
<td>1.5</td>
<td>2.0</td>
<td></td>
<td>W</td>
</tr>
<tr>
<td>impedance</td>
<td></td>
<td>8.8</td>
<td>8.0</td>
<td>9.2</td>
<td>Ω</td>
</tr>
<tr>
<td>resonant frequency (Fo)</td>
<td></td>
<td>400</td>
<td>500</td>
<td>600</td>
<td>Hz</td>
</tr>
<tr>
<td>frequency response</td>
<td></td>
<td>300</td>
<td>20000</td>
<td></td>
<td>Hz</td>
</tr>
<tr>
<td>sound pressure level</td>
<td>at 1.0 W, 50 cm, avg 0.8, 1.0, 1.2, 1.5 kHz</td>
<td>80</td>
<td>83</td>
<td>88</td>
<td>dB</td>
</tr>
<tr>
<td>distortion</td>
<td>at 1.0 kHz, 1.0 W, 50 cm</td>
<td></td>
<td></td>
<td>5</td>
<td>%</td>
</tr>
<tr>
<td>buzz, rattle, etc.</td>
<td>must be normal at sine wave, frequency range</td>
<td></td>
<td></td>
<td>3.48</td>
<td>V</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>Ø28 x 5.4</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>frame material</td>
<td>ABS + 15% GF</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>cone material</td>
<td>PEI</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>terminal</td>
<td>solder pads</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>weight</td>
<td></td>
<td>5.1</td>
<td></td>
<td></td>
<td>g</td>
</tr>
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<td>operating temperature</td>
<td></td>
<td></td>
<td>55</td>
<td></td>
<td>°C</td>
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<tr>
<td>storage temperature</td>
<td></td>
<td>-25</td>
<td>60</td>
<td></td>
<td>°C</td>
</tr>
<tr>
<td>hand soldering</td>
<td>for maximum 2 seconds</td>
<td>360</td>
<td>380</td>
<td></td>
<td>°C</td>
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<td>RoHS</td>
<td>yes</td>
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Notes: 1. All specifications measured at 15-25°C, humidity at 25-75%, unless otherwise noted.
MECHANICAL DRAWING

units: mm
tolerance: ±0.2 mm

MOUNTING NOTICE

AT LEAST 1.0mm FOR DIAPHRAGM MOVING

φ26.5 Raffle Opening

φ28±0.2

φ15.8±0.2

4.2±0.2

5.4±0.2
RESPONSE CURVES

Frequency Response Curve

Test Conditions: 2.83 V / 50 cm

Additional Resources: Product Page
## REVISION HISTORY

<table>
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<th>rev.</th>
<th>description</th>
<th>date</th>
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<tr>
<td>1.0</td>
<td>initial release</td>
<td>06/27/2023</td>
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The revision history provided is for informational purposes only and is believed to be accurate.