Dynamic Micro Speaker

Features

- Compact micro dynamic speaker
- 15mm × 15mm × 4mm with solder pads
- Applications include door entry systems, security and safety products, PDAs and parking meters

Specifications

Rated Impedance : 8±15%Ω/1kHz/1V
Rated Power : 0.5W
Max. Power : 0.8W (max 1 minute)
Resonant Frequency : 850±15%Hz/1V
Sound pressure level at 1kHz, 1.2kHz, 1.5kHz, 2kHz sine wave, 0.5W/0.1m baffle board (IEC) : 88 ±3dB
Frequency Range : f0Hz ~ 20kHz
Total Harmonic Distortion : 10% Max at 2kHz/0.5W
Operating Temperature : -20°C ~ +70°C
Storage Temperature : -20°C ~ +70°C
Weight : 1.5g
Voice Coil Diameter : 7.4mm
Magnet size (SmCo) : 6.8 × 1.1mm

Diagram

Dimensions: Millimetres

<table>
<thead>
<tr>
<th>Part Name</th>
<th>Material</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frame</td>
<td>LCP</td>
<td>1</td>
</tr>
<tr>
<td>Yokel</td>
<td>SPCC</td>
<td>1</td>
</tr>
<tr>
<td>Diaphragm</td>
<td>PI</td>
<td>1</td>
</tr>
<tr>
<td>Voice coil</td>
<td>Copper</td>
<td>1</td>
</tr>
<tr>
<td>Plate</td>
<td>SPCC</td>
<td>1</td>
</tr>
<tr>
<td>Magnet</td>
<td>SmCo</td>
<td>1</td>
</tr>
<tr>
<td>Terminal</td>
<td>Cu+Sn</td>
<td>2</td>
</tr>
<tr>
<td>Cap</td>
<td>LCP</td>
<td>1</td>
</tr>
</tbody>
</table>

www.element14.com
www.farnell.com
www.newark.com
www.cpc.co.uk
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Part Number Table

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaker, Micro, Dynamic, 8Ω, 0.5W</td>
<td>ABS-243-RC</td>
</tr>
</tbody>
</table>

Soldering Condition:
It is recommended reflow soldering condition as follows -

NB: It is requested that reflow soldering should be executed after heat of product returns to normal.

![Frequency Response Curve](image)

![Soldering Condition Diagram](image)