2450 MHz Band Pass Filter

**General Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part Number</td>
<td>2450BP07A0100</td>
</tr>
<tr>
<td>Frequency (MHz)</td>
<td>2400 - 2500</td>
</tr>
<tr>
<td>Insertion Loss</td>
<td>2.5 dB max.</td>
</tr>
<tr>
<td>Return Loss</td>
<td>9.5 dB min.</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 Ω</td>
</tr>
<tr>
<td>Input Power</td>
<td>500 mW max.</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40 to +85°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40 to +85°C</td>
</tr>
<tr>
<td>Reel Quantity</td>
<td>10,000</td>
</tr>
<tr>
<td>Attenuation (min.)</td>
<td>25 dB @ 824 - 960 MHz</td>
</tr>
<tr>
<td>Attenuation (min.)</td>
<td>25 dB @ 1710 - 1910 MHz</td>
</tr>
<tr>
<td>Attenuation (min.)</td>
<td>25 dB @ 4800 - 5000 MHz</td>
</tr>
<tr>
<td>Attenuation (min.)</td>
<td>15 dB @ 7200 - 7500 MHz</td>
</tr>
</tbody>
</table>

**Terminal Configuration**

<table>
<thead>
<tr>
<th>No.</th>
<th>Function</th>
<th>Land</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GND</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>OUT</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>GND</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>IN</td>
<td></td>
</tr>
</tbody>
</table>

**Mechanical Dimensions**

<table>
<thead>
<tr>
<th></th>
<th>mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>1.00 ± 0.05</td>
</tr>
<tr>
<td>W</td>
<td>0.50 ± 0.05</td>
</tr>
<tr>
<td>T</td>
<td>0.38 ± 0.05</td>
</tr>
<tr>
<td>a</td>
<td>0.15 ± 0.10</td>
</tr>
<tr>
<td>b</td>
<td>0.25 ± 0.10</td>
</tr>
</tbody>
</table>

**Mounting Considerations**

Mount these devices with brown mark facing up.

* Line width should be designed to provide 50 ohm impedance, depending on PCB material and thickness.

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