**SMD 2.45GHz Dielectric Band Pass Filter**

**ADFC15-2450.00-A-T**

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### FEATURES:
- Small and low profile enables high density mounting
- Low insertion loss & attenuation
- Internally shielded for enhanced performance
- Excellent solderability

### APPLICATIONS:
- Mobile communication system
- Bluetooth, Wireless LAN, WIFI, GPS, etc.

### STANDARD SPECIFICATIONS:

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Units</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Frequency (f₀)</td>
<td>2450.00</td>
<td></td>
<td></td>
<td>MHz</td>
<td></td>
</tr>
<tr>
<td>Passband width</td>
<td>2400.00</td>
<td>2500.00</td>
<td></td>
<td>MHz</td>
<td></td>
</tr>
<tr>
<td>Insertion Loss (2400 ~ 2500MHz)</td>
<td>1.4</td>
<td>@+25°C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.7</td>
<td>@ -40 ~ +85°C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amplitude Ripple (2400 ~ 2500MHz)</td>
<td>0.5</td>
<td></td>
<td></td>
<td>dB</td>
<td></td>
</tr>
<tr>
<td>V.S.W.R (2400 ~ 2500MHz)</td>
<td>1.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relative Attenuation (Reference level: 0dB)</td>
<td>25</td>
<td></td>
<td>8</td>
<td>dB</td>
<td>800 ~ 960MHz</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td></td>
<td>1710 ~ 1970MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>23</td>
<td></td>
<td>4800 ~ 5000MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>32</td>
<td></td>
<td>7200 ~ 7500MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Characteristic Impedance</td>
<td>50</td>
<td></td>
<td></td>
<td>Ω</td>
<td></td>
</tr>
<tr>
<td>Operation Temperature Range</td>
<td>-40</td>
<td>+85</td>
<td></td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>-10</td>
<td>+40</td>
<td></td>
<td>°C</td>
<td>RH 70% Max</td>
</tr>
</tbody>
</table>

### CHARACTERISTIC CURVE:

![Characteristic Curve Image]

- Preheat condition: 150 ~200°C/60~120sec.
- Allowed time above 217°C: 60~90sec.
- Max temp: 260°C
- Max time at max temp: 10sec.
- Solder paste: Sn/3.0Ag/0.5Cu
- Allowed Reflow time: 2x max

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**Revised: 12.03.12**
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**Recommended Land Pattern**

**Dimensions: mm**

**OUTLINE DRAWING:**

- Top View:
  - 0.18±0.10
  - 0.50±0.05
  - 1.00±0.05
  - 0.38±0.05

- Bottom View:
  - 0.25±0.10
  - 1.12±0.03

- Side View:
  - 0.45

**Dimensions: mm**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>P</th>
<th>T max</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.62±0.03</td>
<td>1.12±0.03</td>
<td>2.00±0.05</td>
<td>0.45</td>
</tr>
</tbody>
</table>

**TAKE & REEL:**

- Packaging: 10,000pcs/reel
- Chip Cavity
- Sprocket Hole 1.5 (+0.1, 0)
- Dimensions: mm

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