SAW Filter 165.450MHz
Part No: MA09724
Model: TB0483A
REV. NO.: 1

A. MAXIMUM RATING:
1. Input Power Level: 15 dBm
2. DC Voltage: 5V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -50°C to +95°C

B. ELECTRICAL CHARACTERISTICS:

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency</td>
<td>MHz</td>
<td>-</td>
<td>165.45</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss at center frequency</td>
<td>dB</td>
<td>-</td>
<td>3.0</td>
<td>7.0</td>
<td>-</td>
</tr>
<tr>
<td>Ripple (165.44625~165.45375)</td>
<td>dB</td>
<td>-</td>
<td>±0.2</td>
<td>±1</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation (relative to ILc)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>164.45 ~ 164.5525 MHz</td>
<td>dB</td>
<td>30</td>
<td>50</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>164.5525 ~ 165.35 MHz</td>
<td>dB</td>
<td>7</td>
<td>21</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>165.55 ~ 166.3475 MHz</td>
<td>dB</td>
<td>7</td>
<td>21</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>166.3475 ~ 166.45 MHz</td>
<td>dB</td>
<td>30</td>
<td>50</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Temperature coefficient of frequency</td>
<td></td>
<td>-0.034 ppm/C²</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note 1. Considering -20 KHz frequency shift from -40°C to +85°C
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C. OUTLINE DRAWING:

![Diagram of outline drawing]

Pin configuration:
- #9 Input
- #4 Output
- #10 Balance input or input ground
- #5 Balance output or output ground
- #1,2,3,6,7,8 To be grounded

D. MEASUREMENT CIRCUIT:

50 Ohm Test circuit (single-ended / single-ended)

![Measurement circuit diagram]

E. PCB FOOTPRINT:

![Diagram of PCB footprint]
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F. FREQUENCY CHARACTERISTICS:

![Frequency Characteristics Graph]

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F. FREQUENCY CHARACTERISTICS:

![Frequency Characteristics Graph]
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G. PACKING:
1. REEL DIMENSION

2. TAPE DIMENSION
H. RECOMMENDED REFLOW PROFILE:

![Graph showing the recommended reflow profile for the SAW Filter 165.450MHz Model: TB0483A Part No: MA09724. The graph illustrates the temperature (in degrees Celsius) over time (in seconds). The profile starts at a lower temperature, increases to a peak, and then returns to a lower temperature.]