SAW Filter 1542.50MHz
Model: TA1405A
Part No: MP04630
Rev No. 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -20°C to +75°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source impedance (single ended): \( Z_S = 50\Omega \)
2. Terminating load impedance (single ended): \( Z_L = 50\Omega \)

<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 ( F_c )</td>
<td>MHz</td>
<td>-</td>
<td>1542.5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (1525 ~ 1560MHz)</td>
<td>dB</td>
<td>-</td>
<td>3</td>
<td>4.2</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude ripple (1525 ~ 1560MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.7</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>VSWR (1525 ~ 1560MHz)</td>
<td></td>
<td>-</td>
<td>1.5</td>
<td>2.1</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation (reference level from 0dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC ~ 1480MHz</td>
<td>dB</td>
<td>21</td>
<td>49</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1630 ~ 1660MHz</td>
<td>dB</td>
<td>26</td>
<td>44</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1660 ~ 2050MHz</td>
<td>dB</td>
<td>30</td>
<td>45</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2050 ~ 3500MHz</td>
<td>dB</td>
<td>25</td>
<td>44</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Temperature Coefficient of Frequency</td>
<td>ppm/°C</td>
<td>-</td>
<td>-36</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
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C. OUTLINE DRAWING:

D. MEASUREMENT CIRCUIT:

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

\[ \text{Graphs showing frequency characteristics...} \]
Reflection Functions

**S11**

![S11 Reflection Function Graph]

**S22**

![S22 Reflection Function Graph]
G. PACKING:

1. Reel Dimension

2. Tape Dimension
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H. RECOMMENDED REFLOW PROFILE: