SAW Filter 2550.0MHz
Model: TA1539A
Part No: MP07548
Rev No: 1

A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -30°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>2550</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss ($2532.5 \sim 2567.5$MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>2.7</td>
<td>3.2</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple ($2532.5 \sim 2567.5$MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.4</td>
<td>1.5</td>
<td>-</td>
</tr>
<tr>
<td>VSWR ($2532.5 \sim 2567.5$MHz)</td>
<td></td>
<td>2</td>
<td>2.2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation (reference level from 0 dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2295 ~ 2325MHz</td>
<td>dB</td>
<td>40</td>
<td>48</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2498MHz</td>
<td>dB</td>
<td>6</td>
<td>17</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2650 ~ 3500MHz</td>
<td>dB</td>
<td>40</td>
<td>50</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:

![Outline Drawing]

D. MEASUREMENT CIRCUIT:

HP Network analyzer

```
50Ω -- SAW Filter -- 50Ω
1, 3, 4, 6
```

E. PCB FOOTPRINT:

![PCB Footprint]
F. FREQUENCY CHARACTERISTICS:

![Graph 1](image1)

![Graph 2](image2)

![Graph 3](image3)
Reflection Functions:

S11

S22
G. PACKING:

1. Reel Dimension (Please refer to FR-75D10 for packing quantity)

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150 ~ 180°C for 60 ~ 90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50 ~ 80 seconds and at 245 ~ 260°Cpeak (min. 10 sec).
4. Time: 2 times.