SAW Filter 2338.7550MHz  
Model: TA1462A  
Part No: MP05066  
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC Voltage: 5V
3. Operating Temperature: -30°C to +85°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>2338.755</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss ($2332.5 \sim 2345$ MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>2.6</td>
<td>3.5</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude ripple ($2332.5 \sim 2345$MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.4</td>
<td>1.6</td>
<td>-</td>
</tr>
<tr>
<td>Group Delay ripple ($2332.5 \sim 2345$MHz)</td>
<td>ns</td>
<td>-</td>
<td>4</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Return Loss ($2332.5 \sim 2345$MHz)</td>
<td>dB</td>
<td>10</td>
<td>13</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td>dB</td>
<td>50</td>
<td>73</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>$88 \sim 108$MHz</td>
<td>dB</td>
<td>35</td>
<td>54</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>$880 \sim 960$MHz</td>
<td>dB</td>
<td>32</td>
<td>45</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>$1710 \sim 1990$MHz</td>
<td>dB</td>
<td>23</td>
<td>47</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>$2450$MHz</td>
<td>dB</td>
<td>30</td>
<td>44</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>$3060$MHz</td>
<td>dB</td>
<td>-</td>
<td>-36</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Temperature Coefficient of Frequency</td>
<td>ppm/°C</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>
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C. OUTLINE DRAWING:

D. MEASUREMENT CIRCUIT:
E. FREQUENCY CHARACTERISTICS:
Reflection Functions

**S11**

-15 dB at 2.338755 GHz
-24.67 dB at 2.345000 GHz

**S22**

-12.26 dB at 2.222000 GHz
-37.15 dB at 2.345000 GHz
F. PACKING:

1. Reel Dimension

2. Tape Dimension

Direction of Feed
G. 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°C peak (min. 10sec).
4. Time: 2 times.