SAW Filter 1382.240MHz  
Model: TA1623A  
Part No: MP08173  
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -50°C to +95°C

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source impedance (differential): $Z_S = 150\Omega // 22nH$
2. Terminating load impedance (differential): $Z_L = 150\Omega // 22nH$

<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 Fc</td>
<td>MHz</td>
<td>-</td>
<td>1382.24</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Bandwidth at -2dB</td>
<td>MHz</td>
<td>46</td>
<td>67</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss in 1359.24 ~ 1405.24MHz</td>
<td>dB</td>
<td>-</td>
<td>2.9</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude ripple (1359.24MHz ~ 1405.24MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.9</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Phase error (1359.24MHz ~ 1405.24MHz) (3)</td>
<td>deg</td>
<td>-</td>
<td>3</td>
<td>6</td>
<td>-</td>
</tr>
<tr>
<td>I/O VSWR (1359.24MHz ~ 1405.24MHz)</td>
<td>-</td>
<td>1.8</td>
<td>2</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>CMDR (1359.24MHz ~ 1405.24MHz)</td>
<td>dB</td>
<td>22</td>
<td>28</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation (1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50 ~ 1300.18MHz</td>
<td>dB</td>
<td>40</td>
<td>52</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1474.3 ~ 1810.5MHz</td>
<td>dB</td>
<td>40</td>
<td>49</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1810.5 ~ 3000MHz</td>
<td>dB</td>
<td>35</td>
<td>45</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>3000 ~ 6000MHz</td>
<td>dB</td>
<td>20</td>
<td>29</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Notes:
1. The amplitude reference is insertion loss at Fc.
2. The amplitude ripple is defined as the max. level – min. level over any 30 MHz block of the given bandwidth.
3. The phase error is measured over any 30 MHz block of the given bandwidth.
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C. OUTLINE DRAWING:

D. MEASUREMENT CIRCUIT:

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

![Frequency Response Diagram]

1. Center 1.30224 GHz
2. IFBW 3 kHz
3. Span 100 MHz
4. Center 1.30224 GHz
5. IFBW 3 kHz
6. Span 400 MHz
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Part No: MP08173

Reflection Functions

S11

S22

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G. PACKING:

1. Reel Dimension

2. Tape Dimension

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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°C peak (min. 10 sec).
4. Time: 2 times.