SAW Filter 1484.30MHz  
Model: TA1624A  
Part No: MP08175  
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): $Z_S = 150\Omega \pm 20nH$
2. Terminating load impedance (differential): $Z_L = 150\Omega \pm 20nH$

<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>1484.3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Bandwidth at -2dB</td>
<td>MHz</td>
<td>46</td>
<td>71</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss in 1461.3 ~ 1507.3MHz</td>
<td>dB</td>
<td>-</td>
<td>2.9</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude ripple (1461.3MHz ~ 1507.3MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.7</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Phase error (1461.3MHz ~ 1507.3MHz) (3)</td>
<td>deg</td>
<td>-</td>
<td>3</td>
<td>6</td>
<td>-</td>
</tr>
<tr>
<td>I/O VSWR (1461.3MHz ~ 1507.3MHz)</td>
<td>-</td>
<td>1.7</td>
<td>1.7</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>CMDR (1461.3MHz ~ 1507.3MHz)</td>
<td>dB</td>
<td>22</td>
<td>27</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 ~ 1402.3MHz</td>
<td>dB</td>
<td>40</td>
<td>50</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1578.3 ~ 1810.5MHz</td>
<td>dB</td>
<td>40</td>
<td>48</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1810.5 ~ 3000MHz</td>
<td>dB</td>
<td>35</td>
<td>44</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>3000 ~ 6000MHz</td>
<td>dB</td>
<td>20</td>
<td>27</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 30MHz block of the given bandwidth.
3. The phase error is measured over any 30MHz block of the given bandwidth.
C. OUTLINE DRAWING:

A, B: Balance Input
E, F: Balance Output
C, D, G, H: Ground

Unit: mm

D. MEASUREMENT CIRCUIT:

input 150Ω

150Ω output

20nH

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

![Frequency Characteristics Graph]

1. Center 1.464 GHz
2. IFBW 3 kHz
3. Span 400 MHz
4. Sim Real Cot
SAW Filter 1484.30MHz
Part No: MP08175

Model: TA1624A
Rev No: 1

-40.00
-50.00
-60.00
-70.00
-80.00
0.000

-20.00
-30.00
-40.00
-50.00

Start 50 MHz 1PBW 1 kHz Stop 5 GHz Sim Pen Cur
Reflection Functions:

**S11**

![S11 Graph]

**S22**

![S22 Graph]
G. PACKING:

1. Reel Dimension

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