SAW Filter 1864.0MHz  
Model: TA1475A  
Part No: MP08088  
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 +125°C

B. CHARACTERISTICS:

1. Terminating source impedance (differential): $Z_S = 150\Omega // 18\text{nH}$
2. Terminating load impedance (differential): $Z_L = 150\Omega // 18\text{nH}$

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency Fc</td>
<td>MHz</td>
<td>-</td>
<td>1864</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss (1844 ~ 1884MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>3.1</td>
<td>5</td>
</tr>
<tr>
<td>Amplitude ripple (1844 ~ 1884MHz)</td>
<td>dB</td>
<td>-</td>
<td>1.1</td>
<td>2</td>
</tr>
<tr>
<td>VSWR (1844 ~ 1884MHz)</td>
<td></td>
<td>-</td>
<td>2.2</td>
<td>2.5</td>
</tr>
<tr>
<td>Group delay ripple (1844 ~ 1884MHz)</td>
<td>ns</td>
<td>-</td>
<td>11</td>
<td>25</td>
</tr>
</tbody>
</table>

Attenuation (reference from 0dB)

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>Unit</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 ~ 862MHz</td>
<td>dB</td>
<td>50</td>
<td>55</td>
<td>-</td>
</tr>
<tr>
<td>862 ~ 1100MHz</td>
<td>dB</td>
<td>46</td>
<td>54</td>
<td>-</td>
</tr>
<tr>
<td>1100 ~ 1655.5MHz</td>
<td>dB</td>
<td>40</td>
<td>54</td>
<td>-</td>
</tr>
<tr>
<td>1655.5 ~ 1771.3MHz</td>
<td>dB</td>
<td>33</td>
<td>49</td>
<td>-</td>
</tr>
<tr>
<td>1956.3 ~ 2072.1MHz</td>
<td>dB</td>
<td>40</td>
<td>54</td>
<td>-</td>
</tr>
<tr>
<td>2072.1 ~ 3000MHz</td>
<td>dB</td>
<td>35</td>
<td>45</td>
<td>-</td>
</tr>
<tr>
<td>3000 ~ 6000MHz</td>
<td>dB</td>
<td>15</td>
<td>31</td>
<td>-</td>
</tr>
<tr>
<td>Temperature Coefficient of Frequency</td>
<td>ppm/°C</td>
<td>-</td>
<td>-36</td>
<td>-</td>
</tr>
</tbody>
</table>
C. MEASUREMENT CIRCUIT:

D. OUTLINE DRAWING:

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

[Graph showing frequency characteristics of SAW Filter 1864.0MHz Model: TA1475A Part No: MP08088 Rev No: 1]

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Model: TA1475A
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![Diagram of SAW Filter 1864.0MHz with specifications and measurements.](image-url)
SAW Filter 1864.0MHz
Part No: MP08088
Model: TA1475A
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Reflection Functions:

S11

S22
G. PACKING:

1. Reel Dimension

![Reel Dimension Diagram]

2. Tape Dimension

![Tape Dimension Diagram]
H. RECOMMENDED REFLOW PROFILE:

![Graph showing recommended reflow profile with temperature (°C) on the y-axis and time (sec) on the x-axis. The graph illustrates a temperature profile with specific points at 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 220, 240, 260, 280, and 300°C, and time from 0 to 360 seconds.]