SAW Filter 1882.50MHz
Model: TA1074A
Part No: MP04233
Rev No: 2

A. MAXIMUM RATING:

1. Input Power Level: +12dBm
2. DC Voltage: 3V
3. Operating Temperature: -25°C to +85°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

<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>1882.5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (1850 ~ 1915MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>2.6</td>
<td>3.5</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (1850 ~ 1915MHz)</td>
<td>dB</td>
<td>-</td>
<td>1.5</td>
<td>2.2</td>
<td>-</td>
</tr>
<tr>
<td>Return Loss (1850 ~ 1915MHz)</td>
<td>dB</td>
<td>8.5</td>
<td>10</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>800 ~ 1400MHz</td>
<td>dB</td>
<td>24</td>
<td>30</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1400 ~ 1475MHz</td>
<td>dB</td>
<td>25</td>
<td>31</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1930 ~ 1940MHz</td>
<td>dB</td>
<td>5</td>
<td>10.5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1940 ~ 3000MHz</td>
<td>dB</td>
<td>20</td>
<td>35</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Temperature coefficient of frequency TCf</td>
<td>-</td>
<td>-36ppm/K</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
C. OUTLINE DRAWING:

D. MEASUREMENT CIRCUIT:

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

![Frequency Characteristics Graph]

1. Center 1.825 GHz
2. IFBW ~14 Hz
3. Span 200 MHz
4. Gain ~10 dB

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Golledge Electronics Ltd
Eaglewood Park, ILMINSTER
Somerset, TA19 9DQ, UK

Tel: +44 1460 256 100
Fax: +44 1460 256 101
www.golledge.com
1. At +85°C:

2. At -25°C:
3. Reflection Functions:

**S11**

![S11 Graph]

**S22**

![S22 Graph]
G. PACKING:

1. Reel Dimension:

![Reel Dimension Diagram]

2. Tape Dimension:

![Tape Dimension Diagram]
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. 10sec).

4. Time: 2 times.