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

SAW Filter 742.50MHz
Model: TA1915A
Part No: MP07286
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -30°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>
</tr>
</thead>
<tbody>
<tr>
<td>Center Frequency Fc</td>
<td>MHz</td>
<td>-</td>
<td>742.5</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss (727 ~ 758MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>2.4</td>
<td>4</td>
</tr>
<tr>
<td>Bandwidth @ -2.5dB</td>
<td>MHz</td>
<td>31</td>
<td>38</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (less than 2.0dB in any 11MHz portion of the specified band)</td>
<td>dB</td>
<td>-</td>
<td>0.8</td>
<td>2.5</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td>dB</td>
<td>28</td>
<td>56</td>
<td>-</td>
</tr>
<tr>
<td>300 ~ 650MHz</td>
<td>dB</td>
<td>10</td>
<td>30</td>
<td>-</td>
</tr>
<tr>
<td>698 ~ 716MHz</td>
<td>dB</td>
<td>10</td>
<td>30</td>
<td>-</td>
</tr>
<tr>
<td>776 ~ 787MHz</td>
<td>dB</td>
<td>28</td>
<td>52</td>
<td>-</td>
</tr>
<tr>
<td>840 ~ 1050MHz</td>
<td>dB</td>
<td>-</td>
<td>-36</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:

HP Network analyzer

50Ω B A,C,D,F

50Ω

SAW Filter E
D. OUTLINE DRAWING:

B: Input
E: Output
A, C, D, F: Ground
Unit: mm

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

1. Frequency Characteristics:
2. Characteristics include start, stop, and bandwidth.
3. Data points are shown on the graph.
4. The graph shows the frequency response of the SAW Filter 742.50MHz.
5. The model number is TA1915A.
7. Revision number: 1.

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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 260°C +0/-5°C peak (20 ~ 40 sec).
4. Time: 2 times.