SAW Filter 2410.0MHz

Part No: MP07497

Model: TA1913A

Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 13dBm
2. DC Voltage: 5V
3. Operating Temperature: -30°C to +65°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source impedance: \( Z_S = 50\Omega \)
2. Terminating load impedance: \( Z_L = 50\Omega \)

<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 ( F_c )</td>
<td>MHz</td>
<td>-</td>
<td>2410</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (2400 ~ 2420MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>3.2</td>
<td>6.5</td>
</tr>
<tr>
<td>Amplitude ripple (2400 ~ 2420MHz)</td>
<td>dB</td>
<td>-</td>
<td>1.5</td>
<td>5.4</td>
</tr>
<tr>
<td>VSWR (2400 ~ 2420MHz)</td>
<td>-</td>
<td>-</td>
<td>1.5</td>
<td>2.2</td>
</tr>
<tr>
<td>Group delay ripple (2400 ~ 2420MHz)</td>
<td>ns</td>
<td>-</td>
<td>16</td>
<td>40</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td>dB</td>
<td>34</td>
<td>38</td>
<td>-</td>
</tr>
<tr>
<td>1940 ~ 1945MHz</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2065 ~ 2068MHz</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2350 ~ 2360MHz</td>
<td></td>
<td>2</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>2440MHz</td>
<td></td>
<td>15</td>
<td>37</td>
<td>-</td>
</tr>
<tr>
<td>2555 ~ 3600MHz</td>
<td></td>
<td>35</td>
<td>40</td>
<td>-</td>
</tr>
<tr>
<td>Temperature coefficient of frequency</td>
<td>ppm/k</td>
<td>-</td>
<td>-36</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

![Measurement Circuit Diagram]
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D. OUTLINE DRAWING:

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

**FREQUENCY RESPONSE**

[Diagram showing frequency response characteristics with specific frequencies and their corresponding gains marked on the graph.]
Reflection Functions

S11

S22
G. PACKING:

1. Reel Dimension (Please Refer To Fr-75d10 for packing quantity)

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 ~ 40sec).
4. Time: 2 times.

![Graph of recommended reflow profile]