SAW Filter 2549.50MHz

Model: TA1161A

Part No: MP04488

Rev No. 1

A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -30°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>2549.5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (2501 ~ 2598MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>2.8</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (2501 ~ 2598MHz)</td>
<td>dB</td>
<td>-</td>
<td>1.7</td>
<td>2.5</td>
<td>-</td>
</tr>
<tr>
<td>VSWR (2501 ~ 2598MHz)</td>
<td></td>
<td>-</td>
<td>2</td>
<td>2.5</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>DC ~ 2400MHz</td>
<td>dB</td>
<td>25</td>
<td>28</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2400 ~ 2445MHz</td>
<td>dB</td>
<td>31</td>
<td>38</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2445 ~ 2460MHz</td>
<td>dB</td>
<td>22</td>
<td>29</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2660 ~ 3800MHz</td>
<td>dB</td>
<td>30</td>
<td>36</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>3800 ~ 5000MHz</td>
<td>dB</td>
<td>15</td>
<td>20</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Temperature Coefficient of Frequency</td>
<td>ppm/°C</td>
<td>-</td>
<td>-36</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
C. OUTLINE DRAWING:

D. MEASUREMENT CIRCUIT:

HP Network analyzer

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

![Graph 1: Frequency Response](image1)

![Graph 2: Frequency Response](image2)

![Graph 3: Frequency Response](image3)
Reflection Functions

S11

S22

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G. PACKING:

1. Reel Dimension

(Reel Count: 7" = 1000; 13" = 3000)

2. Tape Dimension

SECTION A-A

SECTION B-B

DIMENSION ± 0.05
Direction of Feed
H. RECOMMENDED REFLOW PROFILE:

![Graph showing recommended reflow profile with temperature (°C) on the y-axis and time (Sec) on the x-axis. The profile peaks at around 270°C at 180 seconds.]