SAW Filter 881.50MHz

Model: TA1690A

Part No: MP07843

Rev No: 1

A. MAXIMUM RATING:

1. Maximum Input Power: 29dBm
2. DC voltage: 0V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

<table>
<thead>
<tr>
<th>Parameters Description (Band 1)</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>881.5</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss within 869.0 ~ 894.0MHz</td>
<td>dB</td>
<td>-</td>
<td>1.5</td>
<td>2.0</td>
</tr>
<tr>
<td>Amplitude Ripple within 869.0 ~ 894.0MHz</td>
<td>dBp-p</td>
<td>-</td>
<td>0.5</td>
<td>1.0</td>
</tr>
<tr>
<td>VSWR within 869.0 ~ 894.0MHz</td>
<td>-</td>
<td>-</td>
<td>1.6</td>
<td>2.0</td>
</tr>
<tr>
<td>Amplitude balance within 869.0 ~ 894.0MHz</td>
<td>dB</td>
<td>-1.0</td>
<td>-0.1</td>
<td>+0.2</td>
</tr>
<tr>
<td>Phase balance within 869.0 ~ 894.0MHz</td>
<td>deg</td>
<td>-10</td>
<td>-0.2</td>
<td>+3.5</td>
</tr>
</tbody>
</table>

Attenuation:

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>Unit</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC ~ 824.0MHz</td>
<td>dB</td>
<td>50</td>
<td>65</td>
<td>-</td>
</tr>
<tr>
<td>824.0 ~ 849.0MHz</td>
<td>dB</td>
<td>50</td>
<td>56</td>
<td>-</td>
</tr>
<tr>
<td>914.0 ~ 960.0MHz</td>
<td>dB</td>
<td>25</td>
<td>35</td>
<td>-</td>
</tr>
<tr>
<td>960.0 ~ 2000.0MHz</td>
<td>dB</td>
<td>40</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>2000.0 ~ 6000.0MHz</td>
<td>dB</td>
<td>30</td>
<td>43</td>
<td>-</td>
</tr>
</tbody>
</table>

Note: No Matching Network
C. FREQUENCY CHARACTERISTICS:

1. Frequency Response

![Frequency Response Graph]

**C. FREQUENCY CHARACTERISTICS:**

1. Frequency Response

![Frequency Response Graph]

**C. FREQUENCY CHARACTERISTICS:**

1. Frequency Response

![Frequency Response Graph]
2. VSWR

![VSWR Graph]

3. Ripple

![Ripple Graph]
4. Smith Chart
5. Amplitude balance

6. Phase balance
D. MEASUREMENT CIRCUIT:

Source Impedance: 50Ω  
Load Impedance: 100Ω

E. OUTLINE DRAWING:

B, E: Ground  
A: Input  
C, D: Balanced Output
F. PACKING:

1. Reel Dimension (Please refer to FR-75D10 for packing quantity)

2. Tape Dimension
G. RECOMMENDED REFLOW PROFILE: