SAW Filter 1687.5MHz  Model: TA0872A
Part No: MP02893  Rev No: 1

A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -30°C to +80°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>1687.5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (1675.5 ~ 1699.5MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>3.3</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (1675.5 ~ 1699.5MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.5</td>
<td>1.7</td>
<td>-</td>
</tr>
<tr>
<td>Return Loss (1675.5 ~ 1699.5MHz)</td>
<td>dB</td>
<td>9</td>
<td>11</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Group delay ripple (1675.5 ~ 1699.5MHz)</td>
<td>ns</td>
<td>-</td>
<td>6</td>
<td>20</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Attenuation (Reference level from 0dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 ~ 1605MHz</td>
</tr>
<tr>
<td>1800 ~ 2100MHz</td>
</tr>
<tr>
<td>2100 ~ 2700MHz</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

HP Network analyzer

![Measurement Circuit Diagram]
D. OUTLINE DRAWING:

E. PCB FOOTPRINT:
SAW Filter 1687.5MHz
Part No: MP02893
Model: TA0872A
Rev No: 1

F. FREQUENCY CHARACTERISTICS:

[Graph showing frequency characteristics with marked points and labels for frequency and attenuation.

1. Center 1687.5 MHz
2. IFBW 3 kHz
3. Span 100 MHz]
Reflection Functions

**S11**

![Graph of S11](image)

**S22**

![Graph of S22](image)
G. PACKING:

1. Reel Dimension (Reel Count: 7” = 1000; 13” = 3000)

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

![Graph showing recommended reflow profile for SAW Filter 1687.5MHz Part No: MP02893, Rev No: 1]