SAW Filter 1690MHz  
Model: TA1125A  
Part No: MP03287  
Rev No: 1

A. MAXIMUM RATING:

1. Input Power Level: +10dBm  
2. DC Voltage: 3V  
3. Operating Temperature: 0°C to +70°C  
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (Balanced): $Z_S = 190 \Omega$ (and matching network)  
Terminating load impedance (Balanced): $Z_L = 190 \Omega$ (and matching network)

<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>1690</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (1681.2 ~ 1698.8 MHz) IL</td>
<td>dB</td>
<td>3.4</td>
<td>4.5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Bandwidth at -3dB</td>
<td>MHz</td>
<td>32.5</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Bandwidth at -10dB</td>
<td>MHz</td>
<td>39.5</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude ripple in any 6.5MHz band (1681.2 ~ 1698.8MHz)</td>
<td>dB</td>
<td>0.4</td>
<td>1</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Group Delay Ripple (1681.2 ~ 1698.8MHz)</td>
<td>ns</td>
<td>6</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td></td>
<td>50</td>
<td>55</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1577 ~ 1626MHz</td>
<td>dB</td>
<td>50</td>
<td>55</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
C. OUTLINE DRAWING:

![Outline Drawing]

D. MEASUREMENT CIRCUIT:

![Measurement Circuit]

E. PCB FOOTPRINT:

![PCB Footprint]
F. FREQUENCY CHARACTERISTICS:

![Graph 1](image1)

1. 1.60120000 GHz -3.4171 dB
2. 1.69880000 GHz -3.2603 dB

![Graph 2](image2)

1. Center 1.65 GHz
2. IFBW 3 kHz
3. Span 250 MHz
SAW Filter 1690MHz
Part No: MP03287
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TA1125A v1

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G. PACKING:

1. REEL DIMENSION

(Reel Count: 7” = 1000; 13” = 3000)

2. TAPE DIMENSION
H. RECOMMENDED REFLOW PROFILE:

![Graph of recommended reflow profile with temperature on the y-axis and time on the x-axis.]