SAW Filter 609.90MHz
Part No: MP04077

A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. DC voltage: 5V
3. Operating Temperature: -40°C to +85°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>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency Fc</td>
<td>MHz</td>
<td>-</td>
<td>609.9</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss at Fc IL</td>
<td>dB</td>
<td>-</td>
<td>2.4</td>
<td>3.5</td>
</tr>
<tr>
<td>1dB bandwidth</td>
<td>MHz</td>
<td>3</td>
<td>8.76</td>
<td>-</td>
</tr>
<tr>
<td>3dB bandwidth</td>
<td>MHz</td>
<td>5</td>
<td>10.08</td>
<td>-</td>
</tr>
<tr>
<td>Ripple (608.4 ~ 611.4MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.2</td>
<td>1.0</td>
</tr>
<tr>
<td>Group Delay (608.4 ~ 611.4MHz)</td>
<td>ns</td>
<td>-</td>
<td>35</td>
<td>135</td>
</tr>
<tr>
<td>Attenuation (Reference level from IL)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 ~ 590MHz</td>
<td>dB</td>
<td>40</td>
<td>43</td>
<td>-</td>
</tr>
<tr>
<td>590 ~ 600MHz</td>
<td>dB</td>
<td>8</td>
<td>33</td>
<td>-</td>
</tr>
<tr>
<td>620 ~ 630MHz</td>
<td>dB</td>
<td>8</td>
<td>28</td>
<td>-</td>
</tr>
<tr>
<td>630 ~ 700MHz</td>
<td>dB</td>
<td>40</td>
<td>48</td>
<td>-</td>
</tr>
</tbody>
</table>
C. FREQUENCY CHARACTERISTICS:

1. Wide band Response: (span 100MHz)

![Graph of wide band response (span 100MHz)]

2. Wide band Response: (0 ~ 700MHz)

![Graph of wide band response (0 ~ 700MHz)]
3. Pass band Response Variation: (span 20MHz)

![Pass band Response Variation Graph]

4. Group Delay Variation: (span 20MHz)

![Group Delay Variation Graph]
SAW Filter 609.90MHz  
Model: TA0800A  
Part No: MP04077  
Rev No: 1

D. MEASUREMENT CIRCUIT:

![Measurement Circuit Diagram]

E. OUTLINE DRAWING:

![Outline Drawing]

2: Input  
6: Output  
1, 3, 4, 5, 7, 8: Ground  
Unit: mm
F. PACKING:

1. Reel Dimension

2. Tape Dimension
G. RECOMMENDED REFLOW PROFILE:

![Graph showing recommended reflow profile](image)