SAW Filter 388.50MHz
Part No: MP06238

A. MAXIMUM RATING:

1. Input Power Level: 0dBm
2. DC voltage: 10V
3. Operating Temperature: -55°C to +85°C
4. Storage Temperature: -55°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source impedance: $Z_S = 50\Omega$
2. Terminating load impedance: $Z_L = 50\Omega$

<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 $F_c$</td>
<td>MHz</td>
<td>-</td>
<td>388.5</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss 386 ~ 389MHz IL</td>
<td>dB</td>
<td>-</td>
<td>1.4</td>
<td>3.0</td>
</tr>
<tr>
<td>2dB BW</td>
<td>MHz</td>
<td>-</td>
<td>6.5</td>
<td></td>
</tr>
<tr>
<td>VSWR 386 ~ 389MHz</td>
<td>MHz</td>
<td>-</td>
<td>2</td>
<td>2.2</td>
</tr>
<tr>
<td>Ripple 386 ~ 389MHz</td>
<td>dB</td>
<td>-</td>
<td>0.3</td>
<td>1.6</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 ~ 368MHz</td>
<td>dB</td>
<td>40</td>
<td>56</td>
<td>-</td>
</tr>
<tr>
<td>418 ~ 600MHz</td>
<td>dB</td>
<td>40</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Temperature Coefficient of Frequency</td>
<td>ppm/°C</td>
<td>-</td>
<td>-36</td>
<td></td>
</tr>
</tbody>
</table>
C. FREQUENCY CHARACTERISTICS:

1. Wideband response: (span 600MHz)

2. S21 response: (span 40MHz)
3. Passband response: (span 10MHz)

![Passband response graph]

4. S11 & S22 VSWR: (span 10MHz)

![S11 & S22 VSWR graph]
D. MEASUREMENT CIRCUIT:

HP Network analyzer

E. OUTLINE DRAWING:

F. PCB FOOTPRINT:
G. PACKING:

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

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

![Graph of Recommended Reflow Profile]

- Temperature (Deg C) on the y-axis
- Time (Sec) on the x-axis

The graph shows the recommended reflow profile for the SAW Filter 388.50MHz Model: TA1678A Part No: MP06238 Rev No: 1.