SAW Filter 814MHz  
Part No: MA08907

A. MAXIMUM RATING:

1. Input Power Level: 10dBm  
2. DC Voltage: 3V  
3. Operating Temperature: -25°C to +75°C  
4. Storage Temperature: -30°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>814</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (798 ~ 830MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>3.4</td>
<td>4.2</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (798 ~ 830MHz)</td>
<td>dB</td>
<td>-</td>
<td>1.8</td>
<td>2.5</td>
<td>-</td>
</tr>
<tr>
<td>VSWR (798 ~ 830MHz)</td>
<td>-</td>
<td>1.9</td>
<td>2.5</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

Relative Attenuation (relative to 0dB)

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>dB</th>
<th>40</th>
<th>57</th>
<th>-</th>
<th>-</th>
</tr>
</thead>
<tbody>
<tr>
<td>D.C. ~ 735MHz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>761 ~ 780MHz</td>
<td>dB</td>
<td>20</td>
<td>50</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>851 ~ 870MHz</td>
<td>dB</td>
<td>20</td>
<td>33</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>896 ~ 1200MHz</td>
<td>dB</td>
<td>40</td>
<td>54</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1200 ~ 2000MHz</td>
<td>dB</td>
<td>20</td>
<td>40</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

HP Network analyzer

![Diagram](image)
SAW Filter 814MHz
Part No: MA08907

D. OUTLINE DRAWING:

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

- Frequency Characteristics Graphs
  - S2L Log Mag 10.00dB/Ref -40.00dB
  - Frequency Ranges and Levels

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Reflections Functions

S11 VSWR

S22 VSWR
G. PACKING:

1. REEL DIMENSION

(Reel Count: 7” = 1000; 13” = 3000)

2. TAPE DIMENSION
H. RECOMMENDED REFLOW PROFILE:

![Graph showing recommended reflow profile with temperature (Deg C) on the y-axis and time (Sec) on the x-axis. The graph peaks around 180-200 degrees Celsius and takes approximately 200-300 seconds to cool down.]