SAW Filter: 836.50MHz

Part No: MA05675

Model: TA836GG
Rev No: 3

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: +15dBm
2. DC voltage: -5 ~ +5V
3. Operating Temperature: -30°C ~ +85°C
4. Storage Temperature: -40°C ~ +100°C

B. ELECTRICAL CHARACTERISTICS:

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Value</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency Fc MHz</td>
<td>-</td>
<td>836.5</td>
</tr>
<tr>
<td>Insertion loss (824 ~ 849MHz) IL dB</td>
<td>-</td>
<td>2.8</td>
</tr>
<tr>
<td>V.S.W.R (824 ~ 849MHz) dB</td>
<td>-</td>
<td>1.6</td>
</tr>
<tr>
<td>Ripple (824 ~ 849MHz) dB</td>
<td>-</td>
<td>0.7</td>
</tr>
<tr>
<td>Attenuation: (Reference level from 0dB)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D.C. ~ 800 MHz dB</td>
<td>50</td>
<td>55.8</td>
</tr>
<tr>
<td>869 ~ 1049 MHz dB</td>
<td>28</td>
<td>31.2</td>
</tr>
<tr>
<td>1049 ~ 1200 MHz dB</td>
<td>50</td>
<td>57.1</td>
</tr>
<tr>
<td>1200 ~ 2000MHz dB</td>
<td>45</td>
<td>48.6</td>
</tr>
<tr>
<td>Impedance at Fc; Input Z_IN = R_IN // C_IN</td>
<td></td>
<td>50Ω</td>
</tr>
<tr>
<td>Output Z_OUT = R_OUT // C_OUT</td>
<td>50Ω</td>
<td>0 PF</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

Network analyzer

![Measurement Circuit Diagram]
D. FREQUENCY CHARACTERISTICS:

1. Frequency Response

![Frequency Response Diagram]

**D. FREQUENCY CHARACTERISTICS:**

1. Frequency Response

![Frequency Response Diagram]
2. VSWR and Smith Chart
SAW Filter: 836.50MHz  Model: TA836GG
Part No: MA05675  Rev No: 3

E. OUTLINE DRAWING:

F. PCB FOOTPRINT:
G. PACKING:

1. Reel Dimension

(Reel Count: 7” = 1000; 13” = 3000 or per the request of customer order)

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150 ~ 180°C for 60 ~ 90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50 ~ 80 seconds and at 245 ~ 260°C peak (min. 10 sec).
4. Time: 2 times.

![Pb Free IR Reflow Profile Diagram]