SAW Filter 1237.0MHz  
Model: TA0836A  
Part No: MP01698  
Rev No: 1

A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -50°C to +60°C
4. Storage Temperature: -50°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>1237</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Min. Insertion loss IL</td>
<td>dB</td>
<td>-</td>
<td>2.4</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Bandwidth @ -1dB</td>
<td>MHz</td>
<td>-</td>
<td>46</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Bandwidth @ -1.5dB</td>
<td>MHz</td>
<td>40</td>
<td>51</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fc -60MHz</td>
<td>dB</td>
<td>30</td>
<td>60</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Fc -50MHz</td>
<td>dB</td>
<td>20</td>
<td>50</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Fc +50MHz</td>
<td>dB</td>
<td>20</td>
<td>30</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Fc +60MHz</td>
<td>dB</td>
<td>30</td>
<td>38</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Temperature Coefficient of Frequency</td>
<td>ppm/°C</td>
<td>-</td>
<td>-36</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

HP Network analyzer

![Diagram of Measurement Circuit]

SAW Filter 50Ω B
A, C, D, F

50Ω

TA0836A v1
D. OUTLINE DRAWING:

![Outline Drawing](image)

B: Input  
E: Output  
A, C, D, F: Ground  
Unit: mm

E. PCB FOOTPRINT:

![PCB Footprint](image)
F. FREQUENCY CHARACTERISTICS:

![Frequency Characteristics Graph]

**Graph 1**: S21 Log Mag 1.000dB/ Ref -5.000 dB [F2]

- Frequency: 1.231300000 GHz
- Loss: 2.3104 dB
- Center: 1.237 GHz
- IFBW: 3 kHz
- Span: 300 MHz

**Graph 2**: S21 Log Mag 10.000dB/ Ref -40.000 dB [F2]

- Frequency: 1.2359417 GHz
- Loss: 2.3104 dB
- Center: 1.237 GHz
- IFBW: 3 kHz
- Span: 300 MHz
G. PACKING:

1. Reel Dimension (Reel Count: 7" = 1000; 13" = 3000)

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

[Graph showing temperature profile over time]