SAW Filter 1561.0MHz Model: TA0967A
Part No: MP04052 Rev No: 1

A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -40°C to +70°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>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Frequency Fc</td>
<td>MHz</td>
<td>-</td>
<td>1561</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss (1550.5 ~ 1571.5MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>3.3</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude ripple (1550.5 ~ 1571.5MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.5</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>VSWR (1550.5 ~ 1571.5MHz)</td>
<td>-</td>
<td>1.5</td>
<td>2</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

Attenuation (Reference level from 0dB)

<table>
<thead>
<tr>
<th></th>
<th>Unit</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fc-500 to Fc-100 MHz</td>
<td>dB</td>
<td>45</td>
<td>49</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Fc-100 to Fc-60 MHz</td>
<td>dB</td>
<td>40</td>
<td>45</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Fc-60 to Fc-40 MHz</td>
<td>dB</td>
<td>20</td>
<td>32.5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Fc+40 to Fc+60 MHz</td>
<td>dB</td>
<td>20</td>
<td>26</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Fc+60 to Fc+80 MHz</td>
<td>dB</td>
<td>35</td>
<td>43</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Fc+80 to Fc+500 MHz</td>
<td>dB</td>
<td>45</td>
<td>50</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

HP Network analyzer

![Measurement Circuit Diagram]

50Ω A, C, D, F

50Ω B

SAW Filter E

TA0967A 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:

![Graph 1: Frequency Characteristics](image1)

![Graph 2: Frequency Characteristics](image2)
Reflection Functions

S11

S22
G. PACKING:

1. Reel Dimension

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

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

![Graph showing recommended reflow profile]