1575.0MHz SAW Filter
Part No: MA09033

A. MAXIMUM RATING:
1. Input Power Level: 20 dBm
2. DC Voltage : 3V
3. Operating Temperature: -20°C to +70°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>Type.</th>
<th>Max.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Frequency</td>
<td>MHz</td>
<td>-</td>
<td>1575</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (1565 ~ 1585 MHz)</td>
<td>dB</td>
<td>-</td>
<td>1.45</td>
<td>2.8</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (1565 ~ 1585 MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.3</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>VSWR (1565 ~ 1585 MHz)</td>
<td></td>
<td>-</td>
<td>1.2</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Relative Attenuation (relative to 0 dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D.C. ~ 600 MHz</td>
<td>dB</td>
<td>30</td>
<td>36.7</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>600 ~ 1500 MHz</td>
<td>dB</td>
<td>27</td>
<td>34</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1500 ~ 1525 MHz</td>
<td>dB</td>
<td>20</td>
<td>40</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1625 ~ 1675 MHz</td>
<td>dB</td>
<td>20</td>
<td>42</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1675 ~ 3000 MHz</td>
<td>dB</td>
<td>30</td>
<td>36.8</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

HP Network analyzer

[Diagram of measurement circuit]
1575.0MHz SAW Filter

Part No: MA09033

Model: TA1575BB

REV NO.: 1

D. OUTLINE DRAWING:

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

![Graph 1: Frequency Characteristics](image1)

![Graph 2: Frequency Characteristics](image2)
1575.0MHz SAW Filter
Part No: MA09033
Model: TA1575BB
REV NO.: 1

Reflections Functions:

S11 VSWR

S22 VSWR
G. PACKING:
1. REEL DIMENSION

2. TAPE DIMENSION
1575.0MHz SAW Filter
Model: TA1575BB
Part No: MA09033

H. RECOMMENDED REFLOW PROFILE:

![Reflow Profile Graph]

- **Temp (Deg C)**
- **Time (Sec)**

The graph illustrates the recommended reflow profile for the TA1575BB SAW filter.