SAW Filter 1575.50MHz  
Part No: MP06286  

A. MAXIMUM RATING:  
Electrostatic Sensitive Device (ESD)  

1. Input Power Level: 10dBm  
2. DC Voltage: 3V  
3. Operating Temperature: -55°C to +85°C  
4. Storage Temperature: -55°C to +85°C  

B. ELECTRICAL CHARACTERISTICS: (By 20°C)  

1. Terminating source impedance (single ended): $Z_S = 50\Omega$  
2. Terminating load impedance (single ended): $Z_L = 50\Omega$  

<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>1575.5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Min. Insertion Loss IL</td>
<td>dB</td>
<td>-</td>
<td>3</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (1569 ~ 1582MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.8</td>
<td>1.2</td>
<td>-</td>
</tr>
<tr>
<td>Group Delay Ripple (1569 ~ 1582MHz)</td>
<td>ns</td>
<td>-</td>
<td>9</td>
<td>18</td>
<td>-</td>
</tr>
<tr>
<td>VSWR (1569 ~ 1582MHz)</td>
<td></td>
<td>-</td>
<td>2</td>
<td>2.2</td>
<td>-</td>
</tr>
<tr>
<td>Relative Attenuation (relative to 0dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC ~ 1525MHz</td>
<td>dB</td>
<td>35</td>
<td>50</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1602 ~ 1616MHz</td>
<td>dB</td>
<td>20</td>
<td>43</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1616 ~ 3000MHz</td>
<td>dB</td>
<td>35</td>
<td>43</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Deviation of Center and Boundary Frequencies in temperature range from -55°C to +85°C by TCD = -35ppm / grad.
C. OUTLINE DRAWING:

D. MEASUREMENT CIRCUIT:

HP Network analyzer

```
50Ω   2   SAW Filter   5
    1, 3, 4, 6
      50Ω
```

E. PCB FOOTPRINT:
SAW Filter 1575.50MHz
Model: TA0549A
Part No: MP06286
Rev No: 1

F. FREQUENCY CHARACTERISTICS:

[Graphical representation of frequency characteristics]

SAW Filter 1575.50MHz
Model: TA0549A
Part No: MP06286
Rev No: 1

Golledge Electronics Ltd
Eaglewood Park, ILMINSTER
Somerset, TA19 9DQ, UK

Tel: +44 1460 256 100
Fax: +44 1460 256 101
www.golledge.com
Reflections Functions

S11 VSWR

S22 VSWR
G. PACKING:

1. Reel Dimension (Please refer to FR-75D10 for packing quantity)

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.