A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

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>1680</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (1660 ~ 1700MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>3.5</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Bandwidth @ -2dB</td>
<td>MHz</td>
<td>-</td>
<td>69</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (1660 ~ 1700MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.7</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Group Delay Ripple (1660 ~ 1700MHz)</td>
<td>ns</td>
<td>-</td>
<td>7</td>
<td>25</td>
<td>-</td>
</tr>
<tr>
<td>VSWR (1660 ~ 1700MHz)</td>
<td></td>
<td>-</td>
<td>2</td>
<td>2.5</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>1000 ~ 1550 MHz</td>
<td>dB</td>
<td>40</td>
<td>53</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Fc - 150 MHz</td>
<td>dB</td>
<td>40</td>
<td>53</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Fc + 150 MHz</td>
<td>dB</td>
<td>40</td>
<td>45</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1800 ~ 2100 MHz</td>
<td>dB</td>
<td>40</td>
<td>45</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>
SAW Filter: 1680.0MHz
Model: TA1579A
Part No: MP05284
Rev No: 1

C. OUTLINE DRAWING:

D. MEASUREMENT CIRCUIT:

HP Network analyzer

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

![Frequency Response Graph]

SAW Filter: 1680.0MHz  Model: TA1579A
Part No: MP05284  Rev No: 1

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TA1579A v1
SAW Filter: 1680.0MHz
Part No: MP05284

Model: TA1579A
Rev No: 1
Reflection Functions

**S11**

![Graph of S11](attachment:image1.png)

**S22**

![Graph of S22](attachment:image2.png)
G. PACKING:

1. Reel Dimension

(Please refer to FR-75D10 for packing quantity)

2. Tape Dimension

SECTION A-A

SECTION B-B

DIMENSION : mm
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.