SAW Filter 1970MHz
Part No: MP02508

A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -30°C to +80°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>1970</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (1960 ~ 1980MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>1.7</td>
<td>3.5</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (1960 ~ 1980MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.4</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>VSWR (1960 ~ 1980MHz)</td>
<td>-</td>
<td>1.3</td>
<td>2.3</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td>dB</td>
<td>25</td>
<td>38</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>DC ~ 500MHz</td>
<td>dB</td>
<td>28</td>
<td>35</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>500 ~ 1900MHz</td>
<td>dB</td>
<td>30</td>
<td>45</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2050 ~ 2110MHz</td>
<td>dB</td>
<td>22</td>
<td>30</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2110 ~ 4000MHz</td>
<td>dB</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

HP Network analyzer

![](diagram.png)
SAW Filter 1970MHz
Model: TA0827A
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D. OUTLINE DRAWING:

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

[Graph showing frequency characteristics with labeled points and values.]

SAW Filter 1970MHz
Part No: MP02508
Model: TA0827A
Rev No: 1
Reflection Functions

**S11**

**S22**
G. PACKING:

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

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

![Reflow Profile Graph]

- **Temperature (Deg C)**
  - 0 to 280
- **Time (Sec)**
  - 0 to 360

**Graph Details:***

- X-axis: Time (Sec)
- Y-axis: Temperature (Deg C)

**Graph Notes:**

- Recommended reflow profile for SAW Filter 1970MHz Model: TA0827A Part No: MP02508 Rev No: 1

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**SAW Filter 1970MHz**

Model: TA0827A

Part No: MP02508

Rev No: 1