SAW Filter 980.0MHz  
Model: TB1126A  
Part No: MP07093  
Rev No: 2

**A. MAXIMUM RATING:**

Electrostatic Sensitive Device

1. Operating temperature range: -30°C to 60°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level: 10dBm
4. Maximum DC Voltage: 10V

**B. ELECTRICAL CHARACTERISTICS:**

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency, Fc</td>
<td>MHz</td>
<td>-</td>
<td>980</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss, IL</td>
<td>dB</td>
<td>-</td>
<td>18</td>
<td>20.0</td>
</tr>
<tr>
<td>-1dB bandwidth</td>
<td>MHz</td>
<td>80</td>
<td>87</td>
<td>-</td>
</tr>
<tr>
<td>Passband Ripple Fc ± 40MHz</td>
<td>dB</td>
<td>-</td>
<td>0.7</td>
<td>1.2</td>
</tr>
<tr>
<td><strong>Attenuation:</strong>(Reference level from Min IL)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10MHz ~ 850MHz</td>
<td>dB</td>
<td>40</td>
<td>52</td>
<td>-</td>
</tr>
<tr>
<td>1034MHz ~ 1044MHz</td>
<td>dB</td>
<td>10</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>1044MHz ~ 1200MHz</td>
<td>dB</td>
<td>35</td>
<td>42</td>
<td>-</td>
</tr>
<tr>
<td>Temperature Coefficient</td>
<td>ppm/°C</td>
<td>-</td>
<td>-94</td>
<td>-</td>
</tr>
<tr>
<td>Source Impedance</td>
<td>Ohm</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Load Impedance</td>
<td>Ohm</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
</tbody>
</table>
C. FREQUENCY CHARACTERISTICS:

1. Wide band Response: (span 600MHz)

![Wide band Response Graph](image)

Fig. 1. Horizontal: 60MHz / Div, Vertical: 10dB / Div

2. Pass band Response and Group Time Delay response:

![Pass band Response Graph](image)

Fig. 2. Horizontal: 15MHz / Div, Vertical: 1dB / Div, Vertical: 100ns / Div
3. Smith Chart

D. MATCHING CIRCUIT:

\[ C1 = 3.0\text{pF}, \quad C2 = 3.0\text{pF} \]
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E. OUTLINE DRAWING:

3: Input
2: Input ground
7: Output
6: Output ground
1, 4, 5, 8: Ground
Unit: mm

F. PCB FOOTPRINT:
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 260°C +0/-5°C peak (20 ~ 40sec).
4. Time: 2 times.