SAW Filter 1570.0MHz  
Part No: MP07626  
Model: TA1703A  
Rev No: 1

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:

<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>1570</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss (1530 ~ 1610MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>3.6</td>
<td>4.2</td>
</tr>
<tr>
<td>Pass Band Ripple (1530 ~ 1610MHz)</td>
<td>dB</td>
<td>-</td>
<td>1.3</td>
<td>2.2</td>
</tr>
<tr>
<td>Group Delay Variation (1530 ~ 1610MHz)</td>
<td>ns</td>
<td>-</td>
<td>4</td>
<td>30</td>
</tr>
<tr>
<td>Return loss (1530 ~ 1610MHz)</td>
<td>dB</td>
<td>6</td>
<td>7.5</td>
<td>-</td>
</tr>
</tbody>
</table>

Attenuation (Reference level from 0dB)

<table>
<thead>
<tr>
<th>Range</th>
<th>dB</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 ~ 1370MHz</td>
<td></td>
<td>20</td>
<td>28</td>
<td>-</td>
</tr>
<tr>
<td>1700 ~ 2000MHz</td>
<td></td>
<td>10</td>
<td>24</td>
<td>-</td>
</tr>
</tbody>
</table>

Temperature Coefficient of Frequency ppm/°C - -80 -

C. MEASUREMENT CIRCUIT:

HP Network analyzer

![Measurement Circuit Diagram]

A, C, D, F

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TA1703A v1 1
D. FREQUENCY CHARACTERISTICS:

**Graph 1**
- Title: Log Mag 2.000dB/Ref -10.000dB [Hz]
- Data Points:
  1. Frequency 1.50000000GHz, Magnitude -2.7631 dB
  2. Frequency 1.57000000GHz, Magnitude -5.3157 dB
  3. Frequency 1.61000000GHz, Magnitude -3.5065 dB

**Graph 2**
- Title: Log Mag 5.000dB/Ref -25.000dB [Hz]
- Data Points:
  1. Frequency 1.37000000GHz, Magnitude -46.393 dB
  2. Frequency 1.70000000GHz, Magnitude -25.995 dB

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Reflection Functions

S11

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E. OUTLINE DRAWING:

B: Input  
E: Output  
A, C, D, F: 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: