SAW Filter 265.0MHz  
Model: TA1956A  
Part No: MP07595  
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC voltage: 5V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -55°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>265</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (261 ~ 269MHz)</td>
<td>dB</td>
<td>-</td>
<td>2.4</td>
<td>4</td>
</tr>
<tr>
<td>Ripple (261 ~ 269MHz)</td>
<td>dB</td>
<td>-</td>
<td>1.8</td>
<td>2.2</td>
</tr>
<tr>
<td>Absolute Attenuation: (Reference level from 0dB)</td>
<td>dB</td>
<td>33</td>
<td>36</td>
<td>-</td>
</tr>
<tr>
<td>0.3 ~ 250MHz</td>
<td>dB</td>
<td>35</td>
<td>42</td>
<td>-</td>
</tr>
<tr>
<td>290 ~ 350MHz</td>
<td>dB</td>
<td>25</td>
<td>28</td>
<td>-</td>
</tr>
<tr>
<td>350 ~ 650MHz</td>
<td>dB</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Source impedance Z_s</td>
<td>Ω</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Load impedance Z_L</td>
<td>Ω</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

HP Network analyzer

![Measurement Circuit Diagram](attachment:measurement_circuit.png)
D. FREQUENCY CHARACTERISTICS:

1. Wideband response

![Wideband response graph]

- Frequency Characteristics:
  - Bandwidth: 0.5 MHz
  - Return Loss: 20.0 dB

2. Narrowband response

![Narrowband response graph]

- Frequency Characteristics:
  - Center Frequency: 265.0 MHz
  - Return Loss: 20.0 dB
E. OUTLINE DRAWING:

9: Input
4: Output
10: Input ground
5: Output ground
1, 2, 3, 6, 7, 8: To be grounded

F. PCB FOOTPRINT:
G. PACKING:

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

2. Tape Dimension

Direction of Feed

Section A-A
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.