SAW Filter 866.0MHz  
Part No: MP04266  
Rev No: 1  

**A. MAXIMUM RATING:**

Electrostatic Sensitive Device (ESD)

1. Maximum RF Power: 20 dBm with 15% duty circle
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>866</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss IL (865 ~ 867MHz)</td>
<td>dB</td>
<td>-</td>
<td>2.8</td>
<td>3.9</td>
</tr>
<tr>
<td>*Insertion loss IL (865 ~ 867MHz)</td>
<td>dB</td>
<td>-</td>
<td>2.8</td>
<td>3</td>
</tr>
<tr>
<td>Attenuation (reference from 0dB)</td>
<td>dB</td>
<td>35</td>
<td>40</td>
<td>-</td>
</tr>
<tr>
<td>880 ~ 2000MHz</td>
<td></td>
<td></td>
<td></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>

*Note: The spec. is met at 25°C.

**C. MEASUREMENT CIRCUIT:**

![Measurement Circuit Diagram]

HP Network analyzer

50Ω B E 50Ω

A, C, D, F
D. OUTLINE DRAWING:

![Outline Drawing Image]

- B: Input
- E: Output
- A, C, D, F: Ground
- Unit: mm

E. PCB FOOTPRINT:

![PCB Footprint Image]

- 3.20 SQ
- 1.70
- 0.81
- 0.38
- 1.09
- 1.05
- 1.4 MAX
- 1.5 REF
- 0.6 TYP
F. FREQUENCY CHARACTERISTICS:

1. Wideband response:

![Wideband response graph]

- Frequency: 866.00000 MHz
- Gain: -2.8044 dB
- Gain: -57.713 dB
- Gain: -40.872 dB

2. Narrowband response:

![Narrowband response graph]

- Frequency: 865.91000 MHz
- Gain: -2.8091 dB
- Gain: -2.9232 dB
- Gain: -2.9232 dB
- Gain: -2.8091 dB

**SAW Filter 866.0MHz**
**Model: TA1480A**
**Part No: MP04266**
**Rev No: 1**
G. PACKING:

1. Reel Dimension

(Reel Count: 7” = 1000; 13” = 3000)

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

![Graph showing the recommended reflow profile with temperature (Deg C) on the y-axis and time (Sec) on the x-axis. The graph illustrates the temperature profile over time, with a peak at around 220 degrees Celsius and a duration of about 200 seconds.]