SAW Filter 781.5 MHz  
Part No: MP02750

A. MAXIMUM RATING:
1. Input Power Level: 10 dBm
2. DC Voltage: 3V
3. Operating Temperature: -30°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>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Frequency Fc</td>
<td>MHz</td>
<td>-</td>
<td>781.5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss (775~788 MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>1.8</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>MHz</td>
<td>13</td>
<td>28</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (775 ~ 788 MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.3</td>
<td>1</td>
<td>-</td>
</tr>
</tbody>
</table>

**Attenuation** (Reference level from 0 dB)

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>Unit</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 ~ 700 MHz</td>
<td>dB</td>
<td>28</td>
<td>59</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>728 ~ 757 MHz</td>
<td>dB</td>
<td>10</td>
<td>48</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>880 ~ 1050 MHz</td>
<td>dB</td>
<td>28</td>
<td>62</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

![Measurement Circuit Diagram]

1, 3, 4, 5, 7, 8
SAW Filter 781.5 MHz
Part No: MP02750
Model: TA1017A
REV. NO: 1

D. OUTLINE DRAWING:

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

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

![Graph 1: Log Mag 1.000dB Ref -5.000dB](image)

- Frequency: 775.000000 MHz
- Attenuation: -1.0018 dB

![Graph 2: Log Mag 10.000dB Ref -40.000dB](image)

- Frequency: 300 MHz
- Attenuation: -40.000 dB

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TA1017A v1
G. PACKING:

1. REEL DIMENSION

(Reel Count : 7”=1000 ; 13”=3000 )
H. RECOMMENDED REFLOW PROFILE:

![Graph showing the recommended reflow profile. The x-axis represents time in seconds (0 to 360), and the y-axis represents temperature in degrees Celsius (20 to 280). The graph shows a curve that peaks around 220°C and then drops back down.]