SAW Filter 781.50MHz
Part No: MP05005

A. MAXIMUM RATING:

1. Input Power Level: +25dBm
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>781.5</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss (775 ~ 788MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>2.2</td>
<td>4</td>
</tr>
<tr>
<td>Insertion loss (777 ~ 787MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>2.1</td>
<td>3</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>MHz</td>
<td>13</td>
<td>25</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (775 ~ 788MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.35</td>
<td>1</td>
</tr>
</tbody>
</table>

Attenuation (Reference level from 0dB)

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>Attenuation</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 ~ 700MHz</td>
<td>dB</td>
<td>28</td>
<td>64</td>
<td>-</td>
</tr>
<tr>
<td>728 ~ 757MHz</td>
<td>dB</td>
<td>10</td>
<td>49</td>
<td>-</td>
</tr>
<tr>
<td>880 ~ 1050MHz</td>
<td>dB</td>
<td>28</td>
<td>70</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

HP Network analyzer

50Ω B SAW Filter E 50Ω

A,C,D,F
SAW Filter 781.50MHz
Part No: MP05005

D. OUTLINE DRAWING:

![Outline Drawing Diagram]

E. PCB FOOTPRINT:

![PCB Footprint Diagram]
F. FREQUENCY CHARACTERISTICS: (typical performance at 25°C)
G. PACKING:

1. Reel Dimension (Reel Count: 7" = 1000; 13" = 3000)

2. Tape Dimension

SECTION A-A

SECTION B-B

DIMENSION : mm

Direction of Feed
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 250 ± 10°C peak (max. 10sec).
4. Time: 2 times.