SAW Filter 748MHz  
Model: TA1005A  
Part No: MP02166  
REV NO.: 1

A. MAXIMUM RATING:
1. Input Power Level: 10 dBm
2. DC Voltage: 3V
3. Operating Temperature: -20°C to +75°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</td>
<td>MHz</td>
<td>-</td>
<td>748</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss (732~764 MHz)</td>
<td>dB</td>
<td>-</td>
<td>3.0</td>
<td>4.5</td>
</tr>
<tr>
<td>Amplitude Ripple (732~764 MHz)</td>
<td>dB</td>
<td>-</td>
<td>1.3</td>
<td>3.0</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0 dB)</td>
<td>dB</td>
<td>45</td>
<td>53</td>
<td>-</td>
</tr>
<tr>
<td>0 ~ 700 MHz</td>
<td></td>
<td>40</td>
<td>54</td>
<td>-</td>
</tr>
<tr>
<td>700 ~ 708 MHz</td>
<td></td>
<td>20</td>
<td>31</td>
<td>-</td>
</tr>
<tr>
<td>790 ~ 820 MHz</td>
<td></td>
<td>20</td>
<td>39</td>
<td>-</td>
</tr>
<tr>
<td>820 ~ 1000 MHz</td>
<td></td>
<td>45</td>
<td>52</td>
<td>-</td>
</tr>
<tr>
<td>Temperature Coefficient of Frequency</td>
<td>ppm/°C</td>
<td>-</td>
<td>-35</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

HP Network analyzer

50Ω  SAW Filter  50Ω
1, 3, 4, 5, 7, 8
D. OUTLINE DRAWING:

2: Input
6: Output
1,3,4,5,7,8: Ground
△: Year Code
□: Date Code (W01->A, W02->B,...,W52->z)

△ Product Year Code

<table>
<thead>
<tr>
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<th></th>
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<th></th>
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</thead>
<tbody>
<tr>
<td>Product Code</td>
<td>A</td>
<td>a</td>
<td></td>
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</tr>
</tbody>
</table>

E. PCB FOOTPRINT:
SAW Filter 748MHz
Part No: MP02166
Model: TA1005A

F. FREQUENCY CHARACTERISTICS:

![Frequency Characteristics Graph]

FREQUENCY CHARACTERISTICS:

- Center: 748 MHz
- IFBW: 70 kHz
- Span: 60 MHz

FREQUENCY RESPONSE:

- 1. 738.0000000 MHz -2.4292 dB
- 2. 748.0000000 MHz -2.3869 dB
- 3. 758.0000000 MHz -2.4103 dB

FREQUENCY CHARACTERISTICS:

- Start: 640 MHz
- IFBW: 70 kHz
- Stop: 940 MHz

TA1005A v1
SAW Filter 748MHz
Model: TA1005A
Part No: MP02166
REV NO.: 1

**Spectral Response Chart**

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>DB</th>
</tr>
</thead>
<tbody>
<tr>
<td>700.00000000</td>
<td>-55.763</td>
</tr>
<tr>
<td>720.00000000</td>
<td>-45.578</td>
</tr>
<tr>
<td>750.00000000</td>
<td>-39.970</td>
</tr>
<tr>
<td>1.0000000000</td>
<td>-52.743</td>
</tr>
</tbody>
</table>

1. Start: 300 kHz
2. IFBW: 70 kHz
3. Stop: 1 GHz
4. Cur: 1
SAW Filter 748MHz
Model: TA1005A
Part No: MP02166

G. PACKING:
1. REEL DIMENSION

2. TAPE DIMENSION

Direction of Feed

TA1005A v1
H. RECOMMENDED REFLOW PROFILE:

![Graph showing recommended reflow profile with time (Sec) on the x-axis and temperature (Deg C) on the y-axis.]