SAW Filter 793.0MHz
Part No: MP03717

Model: TA1244A
Rev No: 3

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>793</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss (788 ~ 798MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>1.6</td>
<td>2.5</td>
</tr>
<tr>
<td>Amplitude Ripple (788 ~ 798MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.7</td>
<td>1.5</td>
</tr>
<tr>
<td>Return Loss (788 ~ 798MHz)</td>
<td>dB</td>
<td>10</td>
<td>14</td>
<td>-</td>
</tr>
<tr>
<td>Group Delay at Fc</td>
<td>ns</td>
<td>-</td>
<td>38</td>
<td>60</td>
</tr>
<tr>
<td>Group Delay Variation (788 ~ 798MHz)</td>
<td>ns</td>
<td>-</td>
<td>26</td>
<td>60</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 ~ 700MHz</td>
<td>dB</td>
<td>30</td>
<td>40</td>
<td>-</td>
</tr>
<tr>
<td>758 ~ 768MHz</td>
<td>dB</td>
<td>45</td>
<td>54</td>
<td>-</td>
</tr>
<tr>
<td>848 ~ 890MHz</td>
<td>dB</td>
<td>35</td>
<td>43</td>
<td>-</td>
</tr>
<tr>
<td>1000 ~ 2000MHz</td>
<td>dB</td>
<td>25</td>
<td>41</td>
<td>-</td>
</tr>
<tr>
<td>Temperature Coefficient of Frequency</td>
<td>ppm/°C</td>
<td>-</td>
<td>-36</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

HP Network analyzer

[Diagram of measurement circuit]
SAW Filter 793.0MHz
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D. OUTLINE DRAWING:

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

Unit: mm

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS: (typical performance at 25°C)
Reflection Functions: (typical performance at 25°C)

**S11**

![Graph of S11](image)

**S22**

![Graph of S22](image)
G. PACKING:

1. REEL DIMENSION

(Reel Count: 7” = 1000; 13” = 3000)
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.