SAW Filter 793MHz
Part No: MP02446
Model: TA1131A
REV NO.: 1

A. MAXIMUM RATING:
1. Input Power Level: +25 dBm
2. DC Voltage: 3V
3. Operating Temperature: -20°C to +70°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</td>
<td>Fc</td>
<td>MHz</td>
<td>793</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (788~798 MHz)</td>
<td>IL</td>
<td>dB</td>
<td>1.3</td>
<td>2.5</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (788~798 MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.4</td>
<td>1.5</td>
<td>-</td>
</tr>
<tr>
<td>Return Loss (788~798 MHz)</td>
<td>dB</td>
<td>10</td>
<td>15</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0 dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 ~ 700 MHz</td>
<td>dB</td>
<td>30</td>
<td>41</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>758 ~ 768 MHz</td>
<td>dB</td>
<td>45</td>
<td>57</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>848 ~ 890 MHz</td>
<td>dB</td>
<td>35</td>
<td>43</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1000 ~ 2000 MHz</td>
<td>dB</td>
<td>25</td>
<td>42</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

C. OUTLINE DRAWING:

2: Input
6: Output
1,3,4,5,7,8: Ground
Unit: mm
D. MEASUREMENT CIRCUIT:

![Measurement Circuit Diagram]

E. PCB FOOTPRINT:

![PCB Footprint Diagram]
F. FREQUENCY CHARACTERISTICS:

![Graph of frequency characteristics](image1)

![Graph of frequency characteristics](image2)
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![Graph of SAW Filter 793MHz](image)
Reflection Functions:

**S11**

![Graph showing reflection function S11 with key points and frequencies]

**S22**

![Graph showing reflection function S22 with key points and frequencies]
G. PACKING:
1. REEL DIMENSION
   (Reel Count: 7" = 1000; 13" = 3000 )

   ![Diagram of reel dimensions]

2. TAPE DIMENSION

   ![Diagram of tape dimensions]

   Direction of Feed
H. RECOMMENDED REFLOW PROFILE:

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