SAW Filter 787.50MHz
Model: TA0877A
Part No: MP02103
Rev No: 1

A. MAXIMUM RATING:

1. Input Power Level: 5dBm
2. DC voltage: 5V
3. Operating Temperature: -20°C to 70°C
4. Storage Temperature: -40°C to +85°C

B. 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 MHz</td>
<td>MHz</td>
<td>-</td>
<td>787.5</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss 775 ~ 800MHz IL</td>
<td>dB</td>
<td>-</td>
<td>2.9</td>
<td>4.0</td>
</tr>
<tr>
<td>Amplitude ripple 775 ~ 800MHz</td>
<td>dB</td>
<td>-</td>
<td>1.0</td>
<td>2.0</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>600 ~ 700MHz</td>
<td>dB</td>
<td>40</td>
<td>47</td>
<td>-</td>
</tr>
<tr>
<td>700 ~ 750MHz</td>
<td>dB</td>
<td>30</td>
<td>41</td>
<td>-</td>
</tr>
<tr>
<td>860 ~ 900MHz</td>
<td>dB</td>
<td>30</td>
<td>43</td>
<td>-</td>
</tr>
<tr>
<td>900 ~ 1000MHz</td>
<td>dB</td>
<td>38</td>
<td>46</td>
<td>-</td>
</tr>
<tr>
<td>Source impedance Z_s</td>
<td>Ω</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Load impedance Z_L</td>
<td>Ω</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
</tbody>
</table>

Note: No matching network required for operation at 50Ω
C. FREQUENCY CHARACTERISTICS:

1. Transfer function

![Transfer function graph]

2. Wideband

![Wideband graph]
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D. MEASUREMENT CIRCUIT:

HP Network analyzer

50Ω B SAW Filter E 50Ω
A,C,D,F

E. OUTLINE DRAWING:

B: Input
E: Output
A, C, D, F: Ground
Unit: mm

F. PCB FOOTPRINT:
G. PACKING:

1. Reel Dimension

2. Tape Dimension

Direction of Feed
SAW Filter 787.50MHz  
Part No: MP02103  
Model: TA0877A  
Rev No: 1

H. RECOMMENDED REFLOW PROFILE:

![Recommended Reflow Profile Graph]

- Time (Sec):
  - 0 to 360

- Temp (Deg C):
  - 20 to 280

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