SAW Filter 221.60MHz  
Model: TA0576B
Part No: MP09188  
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 20dBm
2. DC voltage: 5V
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>221.6</td>
<td>-</td>
</tr>
<tr>
<td>Minimum Insertion Loss IL min (reference level)</td>
<td>dB</td>
<td>-</td>
<td>1.95</td>
<td>3.0</td>
</tr>
<tr>
<td>Amplitude ripple 218.1 ~ 225.1MHz</td>
<td>dB</td>
<td>-</td>
<td>1.1</td>
<td>2.2</td>
</tr>
<tr>
<td>3dB Bandwidth BW -3dB</td>
<td>MHz</td>
<td>7</td>
<td>10</td>
<td>-</td>
</tr>
</tbody>
</table>

Attenuation (Reference level from IL min)

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 ~ Fc - 35MHz</td>
<td>dB</td>
<td>38</td>
<td>43</td>
<td>-</td>
</tr>
<tr>
<td>Fc + 35 ~ 500MHz</td>
<td>dB</td>
<td>38</td>
<td>50</td>
<td>-</td>
</tr>
</tbody>
</table>

Source impedance Zs  
Load impedance ZL

Note: IL min is the minimum of the pass band attenuation. The center frequency Fc is the mean value of the upper and lower frequencies at the 3dB filter attenuation level relative to the IL min.

C. MEASUREMENT CIRCUIT:

HP Network analyzer

![Network Diagram](image)
D. FREQUENCY CHARACTERISTICS:

![Graph of frequency characteristics]

- Center: 221.6 MHz
- IFBW: 70 kHz
- Span: 200 MHz

**Graph 1:** Log Mag 221.6MHz Ref -20.000dB (dB)
- LO: 221.6000 MHz -22.215 dB
- LO: 221.6000 MHz -2.2836 dB

**Graph 2:** Log Mag 10.000dB Ref -40.000dB (dB)
- LO: 219.8500 MHz -1.9504 dB

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E. OUTLINE DRAWING:

[Diagram with dimensions and pin labels]

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

F. PCB FOOTPRINT:

[Diagram with footprint dimensions]
G. PACKING:

1. Reel Dimension

2. Tape Dimension

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 245 ~ 260°C peak (min. 10 sec).
4. Time: 2 times.