SAW Filter 221.60MHz  Model: TA0576A
Part No: MA08628  Rev No: 2

A. MAXIMUM RATING:

1. Input Power Level: 15dBm
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>
<tr>
<td>Attenuation (Reference level from IL min)</td>
<td>dB</td>
<td>38</td>
<td>43</td>
<td>-</td>
</tr>
<tr>
<td>10 ~ Fc -35MHz</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fc +35 ~ 500MHz</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Source impedance ZS</td>
<td>Ω</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Load impedance ZL</td>
<td>Ω</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
</tbody>
</table>

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

```
50Ω       2
   SAW Filter
50Ω
```

TA0576A v2
D. FREQUENCY CHARACTERISTICS:

**Plot 1:**
- Frequency: 221.60 MHz
- Reference: -20 dB

**Plot 2:**
- Frequency: 219.85 MHz
- Reference: -80 dB
SAW Filter 221.60MHz
Model: TA0576A
Part No: MA08628
Rev No: 2

E. OUTLINE DRAWING:

F. PCB FOOTPRINT:
G. PACKING:

1. Reel Dimension 7" = 1000, 13" = 3000

2. Tape Dimension

Direction of Feed
H. RECOMMENDED REFLOW PROFILE:

![Graph showing reflow profile with temperature (Deg C) on the y-axis and time (Sec) on the x-axis. The graph illustrates a typical reflow profile with temperature increasing and then decreasing over time.]