SAW Filter 656.0MHz
Model: TA0818A
Part No: MP01566
Rev. No: 1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC voltage: 5 V
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>dB</td>
<td>-</td>
<td>656</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss at Fc IL</td>
<td>dB</td>
<td>-</td>
<td>2.3</td>
<td>3.5</td>
</tr>
<tr>
<td>3dB bandwidth</td>
<td>MHz</td>
<td>-</td>
<td>11</td>
<td>-</td>
</tr>
<tr>
<td>Ripple (654.5 ~ 657.5MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.15</td>
<td>1.0</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 ~ 638MHz</td>
<td>dB</td>
<td>40</td>
<td>43.9</td>
<td>-</td>
</tr>
<tr>
<td>666 ~ 676MHz</td>
<td>dB</td>
<td>8</td>
<td>30.1</td>
<td>-</td>
</tr>
<tr>
<td>676 ~ 700MHz</td>
<td>dB</td>
<td>40</td>
<td>48.8</td>
<td>-</td>
</tr>
<tr>
<td>Temperature Coefficient</td>
<td>ppm/°C</td>
<td>-</td>
<td>-36</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>
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### C. MEASUREMENT CIRCUIT:

50Ω Test circuit (single-ended / single-ended)

- HP Network analyzer

![Measurement Circuit Diagram]

### D. OUTLINE DRAWING:

![Outline Drawing Diagram]

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

### E. PCB FOOTPRINT:

![PCB Footprint Diagram]
F. FREQUENCY CHARACTERISTICS:

Transfer function

![Graph of frequency characteristics]

- Center: 656 MHz
- IFBW: 70 kHz
- Span: 100 MHz
- Grid 1
G. PACKING:

1. Reel Dimension

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

![Graph of recommended reflow profile]

- Temperature (°C) on the y-axis
- Time (Sec) on the x-axis

Temperature peaks at around 280°C for 300 seconds, followed by a cooling phase.