SAW Filter 1720.0MHz  
Model: TA0682A  
Part No: MA09657  
Rev. No: 1

A. MAXIMUM RATING:

1. Input Power Level: 15dBm
2. DC Voltage: 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -50°C to +95°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 Fc</td>
<td>MHz</td>
<td>-</td>
<td>1720</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (1708 ~ 1732MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>1.7</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (1708 ~ 1732MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.6</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Return Loss (1708 ~ 1732MHz)</td>
<td></td>
<td>8</td>
<td>20</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Group Delay Ripple (1708 ~ 1732MHz)</td>
<td>ns</td>
<td>-</td>
<td>5</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1220 ~ 1650MHz</td>
<td>dB</td>
<td>20</td>
<td>31</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1650 ~ 1670MHz</td>
<td>dB</td>
<td>10</td>
<td>25</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1780 ~ 1790MHz</td>
<td>dB</td>
<td>10</td>
<td>48</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1790 ~ 2220MHz</td>
<td>dB</td>
<td>20</td>
<td>36</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
C. MEASUREMENT CIRCUIT:

HP Network analyzer

![Measurement Circuit Diagram]

D. OUTLINE DRAWING:

![Outline Drawing]

E. PCB FOOTPRINT:

![PCB Footprint]

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

Unit: mm
F. FREQUENCY CHARACTERISTICS:

![Graph of Frequency Characteristics]

**Model:** TA0682A  
**Part No:** MA09657  
**Rev. No:** 1

**SAW Filter 1720.0MHz**

**FREQUENCY CHARACTERISTICS:**

![Graph of Frequency Characteristics]

**FREQUENCY CHARACTERISTICS:**

![Graph of Frequency Characteristics]

**FREQUENCY CHARACTERISTICS:**

![Graph of Frequency Characteristics]

**FREQUENCY CHARACTERISTICS:**

![Graph of Frequency Characteristics]

**FREQUENCY CHARACTERISTICS:**

![Graph of Frequency Characteristics]
SAW Filter 1720.0MHz
Part No: MA09657
Model: TA0682A
Rev. No: 1

1. Reflection Functions

S11

S22
2. Group Delay
G. PACKING:

1. Reel Dimension

(Reel Count: 7” = 1000; 13” = 3000)

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

![Graph of SAW Filter 1720.0MHz Model: TA0682A Part No: MA09657 Rev. No: 1 recommended reflow profile.](image-url)