SAW Filter 433.920MHz  
Part No: MP06772  
Model: TA1728A  
Rev No: 2

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 20dBm
2. DC voltage: 3V
3. Operating Temperature: -40°C to 85°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</td>
<td>MHz</td>
<td>-</td>
<td>433.92</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss 433.12 ~ 434.72MHz IL</td>
<td>dB</td>
<td>-</td>
<td>2.2</td>
<td>2.9</td>
</tr>
<tr>
<td>Amplitude ripple 433.12 ~ 434.72MHz</td>
<td>dB</td>
<td>-</td>
<td>0.4</td>
<td>1.0</td>
</tr>
<tr>
<td>VSWR S11 S22</td>
<td>-</td>
<td>-</td>
<td>1.6</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>10.0 ~ 380.00MHz</td>
<td>dB</td>
<td>58</td>
<td>61</td>
<td>-</td>
</tr>
<tr>
<td>380.00 ~ 423.42MHz</td>
<td>dB</td>
<td>46</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>423.42 ~ 427.00MHz</td>
<td>dB</td>
<td>4</td>
<td>16</td>
<td>-</td>
</tr>
<tr>
<td>443.42 ~ 453.42MHz</td>
<td>dB</td>
<td>25</td>
<td>30</td>
<td>-</td>
</tr>
<tr>
<td>453.42 ~ 460.00MHz</td>
<td>dB</td>
<td>35</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>460.00 ~ 700.00MHz</td>
<td>dB</td>
<td>50</td>
<td>54</td>
<td></td>
</tr>
<tr>
<td>700.00 ~ 1000.00MHz</td>
<td>dB</td>
<td>42</td>
<td>46</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: No matching network required for operation at 50Ω

C. MEASUREMENT CIRCUIT:

| HP Network analyzer                           | B    | E    |
| SAW Filter                                    |      | 50Ω  |
| A,C,D,F                                       | 50Ω  |      |

TA1728A v2
D. FREQUENCY CHARACTERISTICS:

![Frequency Characteristics Graph]

- Center: 433.920 MHz
- IFBW: 70 kHz
- Span: 16 MHz

- Frequency Points:
  1. 433.120000 MHz, -1.7385 dB
  2. 434.720000 MHz, -1.7735 dB
  3. 433.420000 MHz, -9.644 dB
  4. 443.420000 MHz, -32.345 dB
  5. 453.420000 MHz, -67.348 dB
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[Graph and data points]
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E. OUTLINE DRAWING:

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

F. PCB FOOTPRINT:
G. PACKING:

1. Reel Dimension (Please refer to FR-75D10 for packing quantity)

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

![Graph showing reflow profile](image)

- Time (Sec) range from 0 to 360
- Temp (Deg C) range from 20 to 280

The graph is a line graph showing the recommended reflow profile for SAW Filter 433.920MHz Model: TA1728A Part No: MP06772 Rev No: 2.