SAW Filter 433.0MHz
Part No: MP04693

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)
1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -30°C to +72°C
4. Storage Temperature: -30°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source impedance (single ended): $Z_S = 50\Omega$
2. Terminating load impedance (single ended): $Z_L = 50\Omega$

<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 $F_c$</td>
<td>MHz</td>
<td>-</td>
<td>433</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Min. Insertion Loss $IL_{min}$</td>
<td>dB</td>
<td>-</td>
<td>1.3</td>
<td>2.8</td>
<td>-</td>
</tr>
<tr>
<td>Bandwidth $BW_{-3dB}$</td>
<td>dB</td>
<td>20</td>
<td>23.6</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Attenuation (reference level from 0dB)

<table>
<thead>
<tr>
<th>Range</th>
<th>Unit</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 ~ 410MHz</td>
<td>dB</td>
<td>35</td>
<td>53</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>470 ~ 680MHz</td>
<td>dB</td>
<td>35</td>
<td>46</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Temperature Coefficient of Frequency</td>
<td>ppm/°C</td>
<td>-</td>
<td>-36</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

HP Network analyzer
50Ω 2 5 50Ω
SAW Filter 1, 3, 4, 6
SAW Filter 433.0MHz
Model: TA1473A
Part No: MP04693
Rev No: 1

D. OUTLINE DRAWING:

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

[Graphs showing frequency characteristics for different frequencies]

TA1473A v1
G. PACKING:

1. Reel Dimension

2. Tape Dimension

SECTION A-A

SECTION B-B

DIMENSION: mm

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. 10sec).
4. Time: 2 times.