SAW Filter 426.0MHz  
Part No: MP07252  
Model: TA1593A  
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -10°C to +60°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>426</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (425.5 ~ 426.5MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>1.7</td>
<td>3.5</td>
</tr>
<tr>
<td>Amplitude Ripple (425.5 ~ 426.5MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.1</td>
<td>1.5</td>
</tr>
<tr>
<td>VSWR (425.5 ~ 426.5MHz)</td>
<td></td>
<td>-</td>
<td>1.3</td>
<td>2.5</td>
</tr>
</tbody>
</table>

Attenuation (Reference level from 0dB)

<table>
<thead>
<tr>
<th>Frequency</th>
<th>dB</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>404.6MHz</td>
<td></td>
<td>45</td>
<td>70</td>
<td>-</td>
</tr>
<tr>
<td>447.4MHz</td>
<td></td>
<td>35</td>
<td>45</td>
<td>-</td>
</tr>
</tbody>
</table>

Temperature Coefficient of Frequency (ppm/°C)

<table>
<thead>
<tr>
<th></th>
<th>ppm/°C</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
</table>

C. MEASUREMENT CIRCUIT:

HP Network analyzer

<table>
<thead>
<tr>
<th>50Ω</th>
<th>SAW Filter</th>
<th>50Ω</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td></td>
<td>E</td>
</tr>
<tr>
<td>E</td>
<td></td>
<td>E</td>
</tr>
</tbody>
</table>

"TA1593A v1"
D. OUTLINE DRAWING:

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

E. PCB FOOTPRINT:
SAW Filter 426.0MHz
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F. FREQUENCY CHARACTERISTICS:

![Graph 1: Frequency vs. Magnitude]

![Graph 2: Frequency vs. Magnitude]
SAW Filter 426.0MHz
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Model: TA1593A
Rev No: 1

Reflection Functions

S11

S22
G. PACKING:

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

![Reel Dimension Diagram]

2. Tape Dimension

![Tape Dimension Diagram]

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 250 ± 10°C peak (max. 10 sec).
4. Time: 2 times.