SAW Filter 2140.0MHz  
Model: TA1433A  
Part No: MP06140  
Rev No: 1

A. MAXIMUM RATING:  
Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm  
2. DC Voltage: 3V  
3. Operating Temperature: -20°C to +70°C  
4. Storage Temperature: -40°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>2140</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Bandwidth@ -3dB (relative to $F_c$ IL)</td>
<td>MHz</td>
<td>100</td>
<td>114</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (2090 ~ 2190MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>3.5</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (2090 ~ 2190MHz)</td>
<td>dB</td>
<td>-</td>
<td>1.6</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>VSWR (2090 ~ 2190MHz)</td>
<td>-</td>
<td>2.2</td>
<td>2.5</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Attenuation (reference level from 0dB)</td>
<td>dB</td>
<td>25</td>
<td>27</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>DC ~ 2050MHz</td>
<td>dB</td>
<td>25</td>
<td>27</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2230 ~ 3200MHz</td>
<td>dB</td>
<td>25</td>
<td>32</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>

Amplitude Ripple is relative to $F_c$ IL.
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Part No: MP06140

C. OUTLINE DRAWING:

D. MEASUREMENT CIRCUIT:

HP Network analyzer

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

![Graph of frequency characteristics for SAW Filter 2140.0MHz Model: TA1433A Part No: MP06140 Rev No: 1](image)
SAW Filter 2140.0MHz
Model: TA1433A
Part No: MP06140
Rev No: 1

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G. PACKING:

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

2. Tape Dimension

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