SAW Filter 1207.0MHz
Part No: MP05258

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -50°C to +95°C

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source impedance (differential): \( Z_S = 200\Omega // 33nH \)
2. Terminating load impedance (differential): \( Z_L = 200\Omega // 33nH \)

<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>1207</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Bandwidth at -3dB</td>
<td>MHz</td>
<td>-</td>
<td>46</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss in 1197 ~ 1217MHz</td>
<td>dB</td>
<td>-</td>
<td>2.4</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude ripple (1197 ~ 1217MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.65</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Group delay variation (1197 ~ 1217MHz)</td>
<td>ns</td>
<td>-</td>
<td>12</td>
<td>25</td>
<td>-</td>
</tr>
<tr>
<td>I/O Return Loss (1197 ~ 1217MHz)</td>
<td>dB</td>
<td>8</td>
<td>10</td>
<td>-</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>10 ~ 910MHz</td>
<td>dB</td>
<td>43</td>
<td>50</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1360 ~ 2000MHz</td>
<td>dB</td>
<td>43</td>
<td>55</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2000 ~ 2400MHz</td>
<td>dB</td>
<td>38</td>
<td>64</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. OUTLINE DRAWING:

D. MEASUREMENT CIRCUIT:

E. PCB FOOTPRINT:
SAW Filter 1207.0MHz
Part No: MP05258
Model: TA1521A
Rev No: 1

F. FREQUENCY CHARACTERISTICS:
SAW Filter 1207.0MHz
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Model: TA1521A
Rev No: 1

Reflection Functions

S11

S22

TA1521A v1
G. PACKING:

1. Reel Dimension

(Please refer to FR-75D10 for packing quantity)

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.