SAW Filter 921.50MHz  
Model: TA1164A  
Part No: MP07357  
Rev No: 2

A. MAXIMUM RATING:

1. Input Power Level: +10dBm
2. DC Voltage: 3V
3. Operating Temperature: -30°C to +85°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>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Frequency Fc</td>
<td>MHz</td>
<td>-</td>
<td>921.5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (918 ~ 925MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>2.3</td>
<td>3.5</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (918 ~ 925MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.4</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>I/O VSWR (918 ~ 925MHz)</td>
<td>-</td>
<td>1.5</td>
<td>2.5</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td>Output amplitude balance (</td>
<td>S31/S21</td>
<td>)</td>
<td>dB</td>
<td>-2.5</td>
<td>-0.5~1.8</td>
</tr>
<tr>
<td>Output phase balance (f(S31)-f(S21))+180°</td>
<td>deg</td>
<td>-20</td>
<td>-8~15</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td>dB</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 ~ 800MHz</td>
<td></td>
<td></td>
<td>40</td>
<td>62</td>
<td>-</td>
</tr>
<tr>
<td>800 ~ 880MHz</td>
<td></td>
<td></td>
<td>30</td>
<td>42</td>
<td>-</td>
</tr>
<tr>
<td>880 ~ 900MHz</td>
<td></td>
<td></td>
<td>20</td>
<td>23</td>
<td>-</td>
</tr>
<tr>
<td>940 ~ 960MHz</td>
<td></td>
<td></td>
<td>10</td>
<td>31</td>
<td>-</td>
</tr>
<tr>
<td>960 ~ 1000MHz</td>
<td></td>
<td></td>
<td>20</td>
<td>32</td>
<td>-</td>
</tr>
<tr>
<td>1000 ~ 1100MHz</td>
<td></td>
<td></td>
<td>30</td>
<td>55</td>
<td>-</td>
</tr>
<tr>
<td>1100 ~ 2000MHz</td>
<td></td>
<td></td>
<td>40</td>
<td>65</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>

Electrostatic Sensitive Device (ESD)
SAW Filter 921.50MHz
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C. OUTLINE DRAWING:

![Outline Drawing](image)

B: Unbalanced Input
E, G: Balanced Output
A, C, D, F, H: Ground
Unit: mm

D. MEASUREMENT CIRCUIT:

![Measurement Circuit](image)

E. PCB FOOTPRINT:

![PCB Footprint](image)
F. FREQUENCY CHARACTERISTICS:

![Graph 1]

![Graph 2]

![Graph 3]
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Reflection Functions

Reflection Functions
G. PACKING:

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

2. Tape Dimension
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.