SAW Filter 1090MHz
Part No: MP02892
Model: TA0970A
Rev No: 4

A. MAXIMUM RATING:

1. Input Power Level: 20dBm
2. DC voltage: 0V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -55°C to +95°C

B. ELECTRICAL CHARACTERISTICS:

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Center frequency Fc (MHz)</td>
<td>-</td>
<td>1090</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss within 1075 ~ 1105MHz IL (dB)</td>
<td>-</td>
<td>2.3</td>
<td>3.0</td>
</tr>
<tr>
<td>Amplitude ripple (p-p) within 1085 ~ 1095MHz (dB)</td>
<td>-</td>
<td>0.25</td>
<td>0.5</td>
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<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td></td>
<td></td>
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<tr>
<td>DC ~ 970MHz (dB)</td>
<td>25.0</td>
<td>30</td>
<td>-</td>
</tr>
<tr>
<td>1150 ~ 1300MHz (dB)</td>
<td>25.0</td>
<td>33.5</td>
<td>-</td>
</tr>
<tr>
<td>VSWR within 1075 ~ 1105MHz</td>
<td>-</td>
<td>1.8</td>
<td>2.1</td>
</tr>
<tr>
<td>Source impedance Zs (Ω)</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Load impedance Zl (Ω)</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Temperature Coefficient of Frequency ppm/°C</td>
<td>-</td>
<td>-36</td>
<td>-</td>
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</table>

Note: No matching network required for operation at 50Ω

C. MEASUREMENT CIRCUIT:

![Circuit Diagram]
D. FREQUENCY CHARACTERISTICS:
Wideband

Reflections Functions

Smith Chart VSWR
E. OUTLINE DRAWING:

[Diagram showing outline drawing with labels A, C, D, F: Ground; B: Input; E: Output; Unit: mm]

F. PCB FOOTPRINT:

[Diagram showing PCB footprint with dimensions 4 x 1.2 x 2.2 x 3.34 x 0.8 TYP. x 1.6 TYP.]
G. PACKING:

1. Reel Dimension

(Reel Count: 7" = 1000; 13" = 3000)

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