A. MAXIMUM RATING:

Electrostatic Sensitive Device

1. Input Power Level: 10dBm
2. DC voltage: 0V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Center frequency Fc (dB)</td>
<td>-</td>
<td>1030</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss within 1015 ~ 1045 MHz IL (dB)</td>
<td>-</td>
<td>2.2</td>
<td>3.0</td>
</tr>
<tr>
<td>Amplitude ripple (p-p) within 1025 ~ 1035 MHz (dB)</td>
<td>-</td>
<td>0.57</td>
<td>1.0</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0 dB)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC ~ 910MHz (dB)</td>
<td>25.0</td>
<td>29.5</td>
<td>-</td>
</tr>
<tr>
<td>1090 ~ 1300MHz (dB)</td>
<td>25.0</td>
<td>36.5</td>
<td>-</td>
</tr>
<tr>
<td>VSWR within 1015 ~ 1045MHz</td>
<td>-</td>
<td>1.45</td>
<td>2.1</td>
</tr>
<tr>
<td>Source impedance $Z_S$ (Ω)</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Load impedance $Z_L$ (Ω)</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
</tbody>
</table>
C. MEASUREMENT CIRCUIT:

HP Network analyzer

50Ω  E  SAW Filter  A  50Ω

B, C, D, F, G, H

D. OUTLINE DRAWING:

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

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

1. Transfer function

![Graph showing frequency characteristics]

FREQUENCY CHARACTERISTICS:

1. Transfer function

![Graph showing frequency characteristics]

MODEL: TA0973A

REVISION NO: 5

SAW Filter 1030.0MHz

Part No: MP05919

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2. S11
3. S22
G. PACKING:

1. Reel Dimensions

2. Tape Dimensions
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 260°C +0/-5°C peak (20 ~ 40sec).
4. Time: 2 times.