SAW Filter 827.40MHz Model: TB1022A
Part No: MP05961 Rev No: 1

A. MAXIMUM RATING:

- Electrostatic Sensitive Device

1. Operating temperature range: -20°C to 70°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level: 10 dBm
4. Maximum DC Voltage: 10V

B. CHARACTERISTICS:

Ambient Temperature: 25°C

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min.</td>
</tr>
<tr>
<td>Center frequency MHz</td>
<td>-</td>
</tr>
<tr>
<td>Maximum Insertion loss IL dB</td>
<td>-</td>
</tr>
<tr>
<td>1dB Band Width MHz</td>
<td>4.5</td>
</tr>
<tr>
<td>20dB Band Width MHz</td>
<td>-</td>
</tr>
<tr>
<td>Passband Ripple at Fc ± 2.25MHz dB</td>
<td>-</td>
</tr>
<tr>
<td>Absolute Group Delay usec</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation: (Reference level from Min IL)</td>
<td></td>
</tr>
<tr>
<td>Fc ± 4.1MHz</td>
<td>10</td>
</tr>
<tr>
<td>Single Input Impedance Ω</td>
<td>-</td>
</tr>
<tr>
<td>Single Output Impedance Ω</td>
<td>-</td>
</tr>
<tr>
<td>Temperature Coefficient ppm / °C2</td>
<td>-</td>
</tr>
</tbody>
</table>
C. FREQUENCY CHARACTERISTICS:

1. Narrow band Response: (span 50MHz)

![Graph showing narrow band response](image)

Fig 1: Horizontal: 5MHz / Div, Vertical: 10dB / Div

2. Pass band Response and Group Time Delay response:

![Graph showing pass band response and group time delay](image)

Fig 2: Horizontal: 1MHz / Div, Vertical: 1dB / Div, Vertical: 100ns / Div
3. Smith Chart:

![Smith Chart Image]

D. MATCHING CIRCUIT:

![Matching Circuit Diagram]

L1 = 3nH, C1 = 5.6pF, L2 = 3nH, C2 = 8pF
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E. OUTLINE DRAWING:

K: Input
L: Input Ground
E: Output
F: Output Ground
A, B, C, D, G, H, I, J: Ground
Unit: mm

F. PCB FOOTPRINT:

Unit: mm
G. PACKING:

1. Reel Dimension

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE: