# 73.1250MHz SAW Filter

**Model:** TB0259A  
**Part No:** MA09051

## A. MAXIMUM RATING:

1. **Input Power Level:** 15 dBm  
2. **DC Voltage:** 5V  
3. **Operating Temperature:** -30°C to 85°C  
4. **Storage Temperature:** -40°C to 100°C

## B. ELECTRICAL CHARACTERISTICS:

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Min.</th>
<th>Type.</th>
<th>Max.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Center frequency, Fc</strong></td>
<td>MHz</td>
<td>-</td>
<td>73.125</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Insertion Loss at Fc (-30 to +85°C)</strong></td>
<td>IL dB</td>
<td>-</td>
<td>3</td>
<td>8</td>
<td>-</td>
</tr>
<tr>
<td><strong>Insertion Loss at Fc (-10 to +65°C)</strong></td>
<td>IL dB</td>
<td>-</td>
<td>2.7</td>
<td>5.5</td>
<td>-</td>
</tr>
<tr>
<td><strong>Passband Ripple (Fc±7.5KHz )</strong></td>
<td>dB</td>
<td>-</td>
<td>±0.1</td>
<td>±0.3</td>
<td>-</td>
</tr>
<tr>
<td><strong>Absolute Group Delay at Fc</strong></td>
<td>μs</td>
<td>-</td>
<td>16</td>
<td>25</td>
<td>-</td>
</tr>
<tr>
<td><strong>Group Delay Variation (Fc±7.5KHz ), GD</strong></td>
<td>μs</td>
<td>-</td>
<td>1.5</td>
<td>10</td>
<td>-</td>
</tr>
</tbody>
</table>

**Attenuation:** (Ref level from Min IL)

| Fc - 10 to Fc – 0.095 MHz                  | dB   | 20   | 54    | -    | -    |
| Fc – 0.095 to Fc – 0.05 MHz               | dB   | 10   | 23    | -    | -    |
| Fc + 0.05 to Fc + 0.095 MHz              | dB   | 10   | 23    | -    | -    |
| Fc + 0.095 to Fc + 10 MHz                | dB   | 20   | 42    | -    | -    |
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C. OUTLINE DRAWING:

Pin configuration
#L  Input
#M  Input RF-Return
#E  Output
#F  Output RF-Return
#A,B,C,D,G,H,J,K  To be grounded
Unit  mm

D. MEASUREMENT CIRCUIT:

50 Ohm Test circuit (single-ended / single-ended)

HP Network analyzer

Schematic diagram showing the connection of the SAW Filter with other components.
E. FREQUENCY CHARACTERISTICS:

[Graphs showing frequency characteristics with various markers and frequencies listed as examples.]

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F. PCB FOOTPRINT:
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G. PACKING:
1. REEL DIMENSION

2. TAPE DIMENSION