SAW Filter 343.0MHz

Model: TB0892A

Part No: MP05890

Rev No: 1

A. MAXIMUM RATING:

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

B. CHARACTERISTICS:

Ambient Temperature: 25°C

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency Fc</td>
<td>MHz</td>
<td>-</td>
<td>343</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss IL</td>
<td>dB</td>
<td>-</td>
<td>9.5</td>
<td>12</td>
</tr>
<tr>
<td>-1.5dB bandwidth</td>
<td>MHz</td>
<td>-</td>
<td>1.1</td>
<td>-</td>
</tr>
<tr>
<td>-40dB bandwidth</td>
<td>MHz</td>
<td>-</td>
<td>3.0</td>
<td>4.0</td>
</tr>
<tr>
<td>Passband Ripple Fc ± 100kHz</td>
<td>MHz</td>
<td>-</td>
<td>0.4</td>
<td>1.0</td>
</tr>
<tr>
<td>Group Delay Variation Fc ± 100kHz</td>
<td>nsec</td>
<td>-</td>
<td>130</td>
<td>170</td>
</tr>
<tr>
<td>Absolute Delay</td>
<td>usec</td>
<td>-</td>
<td>0.7</td>
<td>1.2</td>
</tr>
<tr>
<td>Temp. Coefficient</td>
<td>ppm/°C2</td>
<td>-</td>
<td>-0.036</td>
<td>-</td>
</tr>
<tr>
<td>Source Impedance</td>
<td>Ohm</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Load Impedance</td>
<td>Ohm</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
</tbody>
</table>
C. FREQUENCY CHARACTERISTICS:

1. Wide band Response: (span 50MHz)

![Wide band Response Graph]

Fig. 1. Horizontal: 5MHz / Div, Vertical: 10Db / Div

2. Pass band Response and Group Delay Response:

![Pass band Response and Group Delay Graph]

Fig. 2. Horizontal: 0.2MHz / Div, Vertical: 1dB / Div, Vertical: 100ns / Div
D. MATCHING CIRCUIT:

\[ \begin{align*}
L_{S2} &= 39nH \\
L_{S3} &= 36nH \\
C_{P1} &= 24pF \\
C_{P4} &= 24pF
\end{align*} \]

E. OUTLINE DRAWING:

- J: RF input
- L: RF input ground
- D: RF output
- F: RF output ground
- A, B, C, G, H, I: Ground

Unit: mm

F. PCB FOOTPRINT:

[Diagram of PCB footprint with dimensions and annotations]
G. PACKING:

1. Reel Dimension

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

![Graph showing reflow profile with temperature on the y-axis and time on the x-axis.](image-url)