SAW Filter 350.0MHz
Part No: MP05901

A. MAXIMUM RATING:

1. Operating Temperature: -25°C to +70°C
2. Storage Temperature: -40°C to +85°C
3. Maximum Input Power: 10dBm

B. ELECTRICAL 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>350</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss at Fc</td>
<td>dB</td>
<td>-</td>
<td>14.5</td>
<td>18</td>
</tr>
<tr>
<td>Bandwidth at -1.0dB</td>
<td>MHz</td>
<td>30.0</td>
<td>30.2</td>
<td>-</td>
</tr>
<tr>
<td>Bandwidth at -6.0dB</td>
<td>MHz</td>
<td>-</td>
<td>36.6</td>
<td>38.0</td>
</tr>
<tr>
<td>Bandwidth at -25.0dB</td>
<td>MHz</td>
<td>-</td>
<td>42.7</td>
<td>45</td>
</tr>
<tr>
<td>Amplitude Ripple (Fc ± 15MHz)</td>
<td>dB</td>
<td>-</td>
<td>1.3</td>
<td>1.5</td>
</tr>
<tr>
<td>Group Delay Ripple (Fc ± 15MHz)</td>
<td>nS</td>
<td>-</td>
<td>46</td>
<td>100</td>
</tr>
<tr>
<td>Absolute Group delay at Fc</td>
<td>nS</td>
<td>-</td>
<td>283</td>
<td>-</td>
</tr>
<tr>
<td>Temp Coefficient</td>
<td>ppm/°C</td>
<td>-</td>
<td>-18</td>
<td>-</td>
</tr>
</tbody>
</table>
C. FREQUENCY CHARACTERISTICS:

1. S21 Response

Fig. 1. Horizontal: 20MHz / Div, Vertical: 10dB / Div

2. Passband Ripple

Fig. 2. Horizontal: 4MHz / Div, Vertical: 2dB / Div
3. Group Delay Ripple

Fig. 3. Horizontal: 4MHz / Div, Vertical: 100nS / Div

D. MEASUREMENT CIRCUIT:

Single ended input 50 ohm to Single ended Output 50 ohm

Note: The matching structure will change according to different test fixture.
SAW Filter 350.0MHz  
Model: TB0619A  
Part No: MP05901  
Rev No: 1

E. OUTLINE DRAWING:

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

F. PCB FOOTPRINT
G. PACKING:

1. Reel Dimension (Please refer to FR-75D10 for packing quantity)

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

![Reflow Profile Graph]

- Time (Sec) on the x-axis
- Temp (Deg C) on the y-axis

The graph shows a reflow profile with specific temperature and time values.