SAW Filter 343.5MHz  
Part No: MP02717

Model: TB0621A  
REV. NO.: 1

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

B. ELECTRICAL CHARACTERISTICS:
1. Ambient Temperature: 25 °C

<table>
<thead>
<tr>
<th>Item</th>
<th>Min.</th>
<th>Typical</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency Fc MHz</td>
<td>-</td>
<td>343.5</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss at Fc dB</td>
<td>-</td>
<td>11.2</td>
<td>14.0</td>
</tr>
<tr>
<td>Bandwidth at -3.0dB MHz</td>
<td>-</td>
<td>4.7</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (Fc ± 1.6 MHz) dB</td>
<td>-</td>
<td>0.5</td>
<td>1.0</td>
</tr>
<tr>
<td>Group Delay Ripple (Fc ± 1.6 MHz) nS</td>
<td>-</td>
<td>40</td>
<td>100</td>
</tr>
<tr>
<td>Triple transit suppression nS</td>
<td>30</td>
<td>45</td>
<td>-</td>
</tr>
</tbody>
</table>

Attenuation (Reference level from minimum Insertion loss )

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>dB</th>
<th>Typical</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>243.5MHz ~ 334.5MHz</td>
<td>40</td>
<td>54</td>
<td>-</td>
</tr>
<tr>
<td>334.5MHz ~ 338.5MHz</td>
<td>35</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>348.5MHz ~ 352.5MHz</td>
<td>35</td>
<td>45</td>
<td>-</td>
</tr>
<tr>
<td>352.5MHz ~ 443.5MHz</td>
<td>40</td>
<td>50</td>
<td>-</td>
</tr>
</tbody>
</table>

Temp Coefficient ppm/°C²
- 0.036
C. FREQUENCY CHARACTERISTICS:

(1) S21 Response: (span 150MHz)

![Graph 1](image1)

**Fig1.** Horizontal: 5MHz/Div Vertical: 10dB/Div

(2) S21 Response: (span 10MHz)

![Graph 2](image2)

**Fig2.** Horizontal: 1MHz/Div Vertical: 1dB/Div

Vertical: 100ns/Div
D. MEASUREMENT CIRCUIT:
1. Single ended input 50 ohm to Single ended Output 50 ohm

L1=56nH L2=47nH C1=20pF C2=18pF

E. OUTLINE DRAWING:

Pin J: RF Input
Pin D: RF Output
Pin A,B,C,D,E,F,G,H: Ground
Unit: mm
SAW Filter 343.5MHz
Part No: MP02717

F. PCB FOOTPRINT:

Unit: mm
G. PACKING:

1. REEL DIMENSION

2. TAPE DIMENSION
H. RECOMMENDED REFLOW PROFILE:

![Graph showing reflow profile](image-url)