SAW Filter 185.5MHz
Part No: MP03304

A. MAXIMUM RATING:

1. Operating Temperature: -40°C to +85°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>185.5</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss at Fc</td>
<td>dB</td>
<td>-</td>
<td>9.0</td>
<td>11.0</td>
</tr>
<tr>
<td>Bandwidth at -1.0dB</td>
<td>MHz</td>
<td>20.0</td>
<td>22.0</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (Fc ± 9.5MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.6</td>
<td>1.0</td>
</tr>
<tr>
<td>Group Delay Ripple (Fc ± 9.5MHz)</td>
<td>nS</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation (Reference level from minimum Insertion loss)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100MHz ~164.8MHz</td>
<td>dB</td>
<td>40</td>
<td>51</td>
<td>-</td>
</tr>
<tr>
<td>164.8MHz ~ 170.7MHz</td>
<td>dB</td>
<td>25</td>
<td>44</td>
<td>-</td>
</tr>
<tr>
<td>201.3MHz ~ 206.8MHz</td>
<td>dB</td>
<td>25</td>
<td>39</td>
<td>-</td>
</tr>
<tr>
<td>206.8MHz ~ 300MHz</td>
<td>dB</td>
<td>38</td>
<td>46</td>
<td>-</td>
</tr>
<tr>
<td>Temp Coefficient</td>
<td>ppm/°C</td>
<td>-</td>
<td>-93</td>
<td>-</td>
</tr>
</tbody>
</table>
C. FREQUENCY CHARACTERISTICS:

1. S21 Response

Fig1. Horizontal: 20MHz/Div; Vertical: 10dB/Div

2. Passband Ripple

Fig2. Horizontal: 4MHz/Div; Vertical: 1dB/Div
3. Group Delay Ripple

Fig3. Horizontal: 4MHz/Div; Vertical: 200nS/Div

D. MEASUREMENT CIRCUIT:

1. Single ended input 50Ω to Single ended Output 50Ω

Note: The matching structure will change according to different test fixture.
SAW Filter 185.5MHz
Model: TB0572A
Part No: MP03304
Rev No: 1

E. OUTLINE DRAWING:

A: RF Input
G: RF Output
B, C, D, E, F, H, J, K, M, N: Ground
Unit: mm

F. PCB FOOTPRINT:

Unit: mm
G. PACKING:

1. REEL DIMENSION

2. TAPE DIMENSION
H. RECOMMENDED REFLOW PROFILE:

![Reflow Profile Graph]

- Temperature (Deg C) vs Time (Sec)