SAW Filter 138.0MHz
Part No: MP01882

Model: TB0614A
REV. NO.: 1

A. MAXIMUM RATING:
1. Operating temperature range: -10°C to 80°C
2. Storage temperature range: -40°C to 85°C

B. CHARACTERISTICS:

<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>138</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss, IL</td>
<td>dB</td>
<td>-</td>
<td>21.6</td>
<td>24</td>
</tr>
<tr>
<td>Upper -1dB frequency</td>
<td>MHz</td>
<td>173.6</td>
<td>174.8</td>
<td>-</td>
</tr>
<tr>
<td>Lower -1dB frequency</td>
<td>MHz</td>
<td>-</td>
<td>99.5</td>
<td>102.7</td>
</tr>
<tr>
<td>Upper –40dB frequency</td>
<td>MHz</td>
<td>-</td>
<td>182.8</td>
<td>184</td>
</tr>
<tr>
<td>Lower –40dB frequency</td>
<td>MHz</td>
<td>92</td>
<td>94.2</td>
<td>-</td>
</tr>
<tr>
<td>Ultimate rejection</td>
<td>dB</td>
<td>35</td>
<td>39</td>
<td>-</td>
</tr>
<tr>
<td>Passband Ripple in 1.25 MHz BW</td>
<td>dB</td>
<td>-</td>
<td>0.35</td>
<td>0.5</td>
</tr>
<tr>
<td>Passband Ripple to 1dB frequencies</td>
<td>dB</td>
<td>-</td>
<td>1.0</td>
<td>1.5</td>
</tr>
<tr>
<td>Temperature Coefficient</td>
<td>ppm/°C</td>
<td>-</td>
<td>-72</td>
<td>-</td>
</tr>
<tr>
<td>Source Impedance (Balanced)</td>
<td>Ohm</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Load Impedance (Balanced)</td>
<td>Ohm</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
</tbody>
</table>
C. FREQUENCY CHARACTERISTICS:

(1) Narrow band Response:(span 200MHz)

![Narrow band Response graph]

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

(2) Pass band Response and Group Time Delay response:

![Pass band Response and Group Time Delay graph]

(3) Wide band Response: (span 600MHz)

![Graph](image1)

Fig3. Horizontal: 60MHz/Div Vertical: 10dB/Div

(4) Return Loss Response: (span 200MHz)

![Graph](image2)

Fig4. Horizontal: 20MHz/Div Vertical: 0.5dB/Div
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(5) Smith Chart:

D. Matching Circuit:

L1=L2=27nH C1=18pF
Zin=50ohm Zout=50ohm
E. OUTLINE DRAWING:

Pin J –RF input
Pin L –RF balance input or to be ground
Pin D –RF output
Pin F –RF balance output or to be ground
Pin A,B,C,G,H,I - Ground

Unit : mm
F. PACKING:

1. REEL DIMENSION

2. TAPE DIMENSION