SAW Filter 156.80MHz

Model: TB0399A
Part No: MP03313
Rev No: 1

A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. Operating Temperature: -30°C to +60°C
3. Storage Temperature: -40°C to +85°C

B. CHARACTERISTICS:

Ambient Temperature: 25°C

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Value</th>
<th>Note</th>
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<tbody>
<tr>
<td>Center frequency Fc MHz</td>
<td>156.8</td>
<td>-</td>
</tr>
<tr>
<td>Minimum Insertion loss IL dB</td>
<td>12.5</td>
<td>14</td>
</tr>
<tr>
<td>Ripple (Fc +7.5MHz ~ Fc -7.5MHz) MHz</td>
<td>0.7</td>
<td>1</td>
</tr>
<tr>
<td>3dB Bandwidth MHz</td>
<td>18.1</td>
<td>-</td>
</tr>
<tr>
<td>40dB Bandwidth MHz</td>
<td>22.0</td>
<td>23</td>
</tr>
<tr>
<td>Substrate Material</td>
<td>YZLNO₃</td>
<td></td>
</tr>
<tr>
<td>Temperature Coefficient ppm/°C</td>
<td>-94</td>
<td></td>
</tr>
<tr>
<td>Relative Rejection (Reference to Minimum Insertion loss)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 ~ 144MHz dB</td>
<td>40</td>
<td>44</td>
</tr>
<tr>
<td>170 ~ 326MHz dB</td>
<td>40</td>
<td>48</td>
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</tbody>
</table>
C. FREQUENCY CHARACTERISTICS:

1. Frequency Response: (span: 100MHz)

2. Passband response and Group Delay Variation: (span: 20MHz)
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D. OUTLINE DRAWING:

K: RF Balance input +  
L: RF Balance input -  
E: RF Balance output +  
F: RF Balance output -  
A, B, C, D, G, H, I, J: To be Ground  
Unit: mm

E. PCB FOOTPRINT:

F. MATCHING CIRCUIT:

Z IN: 50Ω, Z OUT: 50Ω, L1 = 82nH, C1 = 24pF, L2 = 47nH, C2 = 15pF
G. PACKING:

1. REEL DIMENSION:

2. TAPE DIMENSION:
H. RECOMMENDED REFLOW PROFILE:

![Reflow Profile Graph]

- Temperature (Deg C) vs Time (Sec)