SAW Filter 256.0MHz
Model: TB0758A
Part No: MP03515
Rev. No: 1

A. MAXIMUM RATING:

1. Operating Temperature: -40°C ~ +90°C
2. Storage Temperature: -40°C ~ +90°C
3. Input power: 20dBm

B. CHARACTERISTICS:

Ambient Temperature: 25°C

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Value</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min.</td>
<td>Typ.</td>
</tr>
<tr>
<td>Center frequency Fc MHz</td>
<td>-</td>
<td>256</td>
</tr>
<tr>
<td>Minimum Insertion loss IL dB</td>
<td>-</td>
<td>10.2</td>
</tr>
<tr>
<td>1dB BW MHz</td>
<td>34</td>
<td>38</td>
</tr>
<tr>
<td>40dB BW MHz</td>
<td>-</td>
<td>45</td>
</tr>
</tbody>
</table>

Attenuation (Reference to Minimum Insertion loss)

<table>
<thead>
<tr>
<th></th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>225MHz dB</td>
<td>40</td>
<td>51</td>
<td>-</td>
</tr>
<tr>
<td>290MHz dB</td>
<td>40</td>
<td>47</td>
<td>-</td>
</tr>
<tr>
<td>Temp Coefficient ppm/K</td>
<td>-</td>
<td>-94</td>
<td>-</td>
</tr>
</tbody>
</table>

Matching:

1. The input of the filter will be matched to 50Ω
2. The output of the filter will be matched to 50Ω
C. FREQUENCY CHARACTERISTICS:

1. Wide band Response: (span 200MHz)

![Wide band Response Graph]

2. Pass band Response and Group Delay Variation: (span 50MHz)

![Pass band Response Graph]
3. S11 Smith-Chart: (span 200MHz)

![S11 Smith-Chart](image1)

4. S22 Smith-Chart: (span 200MHz)

![S22 Smith-Chart](image2)
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Part No: MP03515  Rev. No: 1

D. OUTLINE DRAWING:

E. PCB FOOTPRINT:

F. MATCHING CIRCUIT:

\[
Z_{\text{IN}} = Z_{\text{OUT}} = 50\Omega, L1 = 22\text{nH}, C1 = 26\text{pF}, L2 = 33\text{nH}
\]
G. PACKING:

1. REEL DIMENSION:

![Reel Dimension Diagram]

2. TAPE DIMENSION:

![Tape Dimension Diagram]
H. RECOMMENDED REFLOW PROFILE: