915.0MHz SAW Resonator

Model: TD0106A
Part No: MA06101
REV NO.: 1

A. FEATURES:
   1. 2-Port Resonator.

B. MAXIMUM RATING:
   1. Input Power Level: 0 dBm
   2. DC voltage: 12 V
   3. Operating Temperature: -40°C to +85°C
   4. Storage Temperature: -40°C to +85°C

C. ELECTRICAL CHARACTERISTICS:

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Units</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency Fr</td>
<td>MHz</td>
<td>914.850</td>
<td>915.000</td>
<td>915.150</td>
</tr>
<tr>
<td>Insertion Loss IL</td>
<td>dB</td>
<td>-</td>
<td>8</td>
<td>9</td>
</tr>
<tr>
<td>Equivalent Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motional capacitance C1</td>
<td>fF</td>
<td>-</td>
<td>0.225</td>
<td>-</td>
</tr>
<tr>
<td>Motional inductance L1</td>
<td>µH</td>
<td>-</td>
<td>134.5</td>
<td>-</td>
</tr>
<tr>
<td>Motional resistance R1</td>
<td>Ohm</td>
<td>-</td>
<td>125</td>
<td>-</td>
</tr>
<tr>
<td>Parallel capacitance Co</td>
<td>pF</td>
<td>-</td>
<td>1.9</td>
<td>-</td>
</tr>
<tr>
<td>Temp.coeff. ppm/c°*2</td>
<td>-</td>
<td>-</td>
<td>0.032</td>
<td>-</td>
</tr>
<tr>
<td>Turnover To deg.C</td>
<td></td>
<td>-</td>
<td>25</td>
<td>-</td>
</tr>
<tr>
<td>Package size</td>
<td></td>
<td></td>
<td></td>
<td>SMD 5X5X1.4mm</td>
</tr>
</tbody>
</table>
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D. OUTLINE DRAWING:

E. EQUIVALENT CIRCUIT:
Two-Port Resonator:
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F. FREQUENCY CHARACTERISTICS:

![S21 Response for TD0106A](chart.png)

G. TEST CIRCUIT:

Network analyzer

From 50Ω Network Analyzer

50Ω

2

SAW Resonator

6

To 50Ω Network Analyzer

50Ω

1,3,4,5,7,8
915.0MHz SAW Resonator
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H. PACKING:
1. REEL DIMENSION

2. TAPE DIMENSION