A. FEATURES:
   1. 1-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>314.925</td>
<td>315.000</td>
<td>315.075</td>
</tr>
<tr>
<td>Insertion Loss IL</td>
<td>dB</td>
<td>-</td>
<td>1.2</td>
<td>2.0</td>
</tr>
<tr>
<td>Equivalent Elements</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Motional capacitance C1</td>
<td>fF</td>
<td>-</td>
<td>2.80</td>
<td></td>
</tr>
<tr>
<td>Motional inductance L1</td>
<td>H</td>
<td>-</td>
<td>91.30</td>
<td></td>
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<tr>
<td>Motional resistance R1</td>
<td>Ohm</td>
<td>-</td>
<td>18.00</td>
<td></td>
</tr>
<tr>
<td>Parallel capacitance Co</td>
<td>pF</td>
<td>-</td>
<td>4.66</td>
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<tr>
<td>Temp.coeff.</td>
<td>ppm/c*2</td>
<td>-</td>
<td>0.032</td>
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<tr>
<td>Turnover To</td>
<td>deg.C</td>
<td>10</td>
<td>25</td>
<td>40</td>
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<tr>
<td>Package size</td>
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<td>SMD 5X5X1.4mm</td>
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</tbody>
</table>
SAW Resonator 315.0MHz  
Model: TC315GD_A  
Part No: MA07075  
REV. NO.: 2

D. OUTLINE DRAWING:

E. EQUIVALENT CIRCUIT:
One-Port Resonator:

Source Impedance

Load Impedance

50Ω

R1  C1  L1

50Ω
SAW Resonator 315.0MHz  Model: TC315GD_A  Part No: MA07075

F. FREQUENCY CHARACTERISTICS:

![Frequency Characteristics Graph]

G. TEST CIRCUIT:

Network analyzer

From 50Ω  50Ω  SAW Resonator  50Ω  To 50Ω  Network Analyzer

1, 3, 4, 5, 7, 8
H. PACKING:

1. REEL DIMENSION

2. TAPE DIMENSION