## A. FEATURES:

1. 2-Port Resonator.
2. nominal 180° -phase at resonance.

## B. MAXIMUM RATING:

1. 1. Power Dissipation: 0 dBm.
2. DC voltage: 12 V.
3. Storage Temperature: -40 °C to 85 °C.
4. Operating 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>434.345</td>
<td>434.420</td>
<td>434.495</td>
</tr>
<tr>
<td>Insertion Loss IL</td>
<td>dB</td>
<td>-</td>
<td>7.0</td>
<td>9.0</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>0.26</td>
<td>-</td>
</tr>
<tr>
<td>Motional inductance L1</td>
<td>µH</td>
<td>-</td>
<td>510</td>
<td>-</td>
</tr>
<tr>
<td>Motional resistance R1</td>
<td>Ohm</td>
<td>-</td>
<td>125</td>
<td>182</td>
</tr>
<tr>
<td>Parallel capacitance Co</td>
<td>pF</td>
<td>2.3</td>
<td>2.6</td>
<td>2.9</td>
</tr>
<tr>
<td>Temp.coeff. ppm/°C²</td>
<td></td>
<td>-</td>
<td>0.032</td>
<td>-</td>
</tr>
<tr>
<td>Package size</td>
<td></td>
<td></td>
<td>SMD5X5X1.4</td>
<td></td>
</tr>
</tbody>
</table>
433.420MHz SAW Resonator  
Model: TD0114A  
Part No: MA06487  
REV. NO.: 1

D. OUTLINE DRAWING:

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

![Resonator 434.42MHz Frequency Characteristics (S21)]

G. TEST CIRCUIT:

Network analyzer

From 50Ω Network Analyzer

50Ω 2

SAW Resonator

6 50Ω To 50Ω Network Analyzer

1,3,4,5,7,8
433.420MHz SAW Resonator
Model: TD0114A
Part No: MA06487
REV. NO.: 1

F. PACKING:
1. REEL DIMENSION

2. TAPE DIMENSION