433.920 MHz SAW Resonator
Part No: MA05557
Model: TC0201A
REV NO.: 1

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>433.845</td>
<td>433.92</td>
<td>433.995</td>
</tr>
<tr>
<td>Insertion Loss IL</td>
<td>dB</td>
<td>-</td>
<td>1.0</td>
<td>2.0</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>2.16</td>
<td>-</td>
</tr>
<tr>
<td>Motional inductance L1</td>
<td>µH</td>
<td>-</td>
<td>62.24</td>
<td>-</td>
</tr>
<tr>
<td>Motional resistance R1</td>
<td>Ohm</td>
<td>-</td>
<td>13.60</td>
<td>-</td>
</tr>
<tr>
<td>Parallel capacitance Co</td>
<td>pF</td>
<td>-</td>
<td>3.61</td>
<td>-</td>
</tr>
<tr>
<td>Temp.coef. ppm/c*2</td>
<td></td>
<td>-</td>
<td>0.032</td>
<td>-</td>
</tr>
<tr>
<td>Turnover To C</td>
<td>deg.C</td>
<td>10</td>
<td>25</td>
<td>40</td>
</tr>
<tr>
<td>Package size</td>
<td>SMD</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>5X5X1.4mm</td>
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</table>
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D. OUTLINE DRAWING:

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

![Graph showing frequency characteristics](image)

G. TEST CIRCUIT:

Network analyzer

From 50Ω Network Analyzer

50Ω 2 6 50Ω

SAW Resonator

To 50Ω Network Analyzer

Points: 1 3 4 5 7 8
433.920 MHz SAW Resonator  
Part No: MA05557

H. PACKING:
1. REEL DIMENSION

2. TAPE DIMENSION