772.420 MHz SAW Resonator
Part No: MA05390

Model: TC0187A
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>772.295</td>
<td>772.420</td>
<td>772.545</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>1.69</td>
<td>-</td>
</tr>
<tr>
<td>Motional inductance L1</td>
<td>H</td>
<td>-</td>
<td>25.15</td>
<td>-</td>
</tr>
<tr>
<td>Motional resistance R1</td>
<td>Ohm</td>
<td>-</td>
<td>14.55</td>
<td>-</td>
</tr>
<tr>
<td>Parallel capacitance Co</td>
<td>pF</td>
<td>-</td>
<td>2.81</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>20</td>
<td>-</td>
<td>50</td>
</tr>
<tr>
<td>Package size</td>
<td></td>
<td>SMD 3.8X3.8X1.4mm</td>
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</tr>
</tbody>
</table>
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D. OUTLINE DRAWING:

E. EQUIVALENT CIRCUIT:

One-Port Resonator:

Source Impedance
50 Ω

Load Impedance
50 Ω

#B
C0
#E
R1 C1 L1
F. FREQUENCY CHARACTERISTICS:

G. TEST CIRCUIT:

Network analyzer

From 50Ω Network Analyzer 50Ω SAW Resonator 50Ω To 50Ω Network Analyzer
H. PACKING:

1. REEL DIMENSION

2. TAPE DIMENSION