SAW Resonator: 622.410MHz
Part No: MP07203

A. FEATURES:

1. One - Port Resonator

B. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC voltage: 3V
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>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency Fr</td>
<td>MHz</td>
<td>622.375</td>
<td>622.41</td>
<td>622.445</td>
</tr>
<tr>
<td>Insertion Loss IL</td>
<td>dB</td>
<td>-</td>
<td>1.9</td>
<td>2.5</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>1.09</td>
<td>-</td>
</tr>
<tr>
<td>Motional inductance L1</td>
<td>μH</td>
<td>-</td>
<td>59.83</td>
<td>-</td>
</tr>
<tr>
<td>Motional resistance R1</td>
<td>Ohm</td>
<td>-</td>
<td>24.35</td>
<td>-</td>
</tr>
<tr>
<td>Parallel capacitance Co</td>
<td>pF</td>
<td>-</td>
<td>2.54</td>
<td>-</td>
</tr>
<tr>
<td>Temp. coeff.</td>
<td>ppm/c*2</td>
<td>-</td>
<td>0.032</td>
<td>-</td>
</tr>
<tr>
<td>Turnover To</td>
<td>deg. C</td>
<td>-</td>
<td>25</td>
<td>-</td>
</tr>
<tr>
<td>Package size</td>
<td></td>
<td></td>
<td>SMD 3.0 X 3.0 X 1.4mm</td>
<td></td>
</tr>
</tbody>
</table>
SAW Resonator: 622.410MHz
Model: TC0506A
Part No: MP07203
Rev No: 1

D. EQUIVALENT CIRCUIT:

One-Port Resonator:

![Equivalent Circuit Diagram]

E. OUTLINE DRAWING:

![Outline Drawing]

Pin B: Input or Output; Pin E: Output or Input
Pin A, C, D, F: Ground

Unit: mm
F. FREQUENCY CHARACTERISTICS:
G. TEST CIRCUIT:

Network analyzer

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

A, C, D, F

H. LAND PATTERN:
I. PACKING:

1. Reel Dimension

![Reel Dimension Diagram]

2. Tape Dimension

![Tape Dimension Diagram]
J. RECOMMENDED REFLOW PROFILE: