SAW Resonator: 1279.60MHz
Part No: MP07375

A. FEATURES:

One-Port Resonator

B. MAXIMUM RATING:

1. Input Power Level: 0dBm
2. DC voltage: 0V
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 Fr</td>
<td>MHz</td>
<td>1279.4</td>
<td>1279.6</td>
<td>1279.8</td>
</tr>
<tr>
<td>Insertion Loss IL</td>
<td>dB</td>
<td>-</td>
<td>1.6</td>
<td>2.0</td>
</tr>
<tr>
<td>Equivalent Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unload quality factor QU</td>
<td></td>
<td>4000</td>
<td>5000</td>
<td></td>
</tr>
<tr>
<td>Motional capacitance C1</td>
<td>fF</td>
<td>-</td>
<td>3.5</td>
<td>-</td>
</tr>
<tr>
<td>Motional inductance L1</td>
<td>μH</td>
<td>-</td>
<td>4.6</td>
<td>-</td>
</tr>
<tr>
<td>Motional resistance R1</td>
<td>Ohm</td>
<td>-</td>
<td>4.8</td>
<td>-</td>
</tr>
<tr>
<td>Parallel capacitance Co</td>
<td>pF</td>
<td>-</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Temp. coeff. ppm/c^2</td>
<td></td>
<td>-</td>
<td>0.05</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></td>
<td>SMD 3.0 X 3.0 X 1.4mm</td>
</tr>
</tbody>
</table>
D. EQUIVALENT CIRCUIT:

One-Port Resonator:

![Equivalent Circuit Diagram]

Source Impedance: $50\,\Omega$

Load Impedance: $50\,\Omega$

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:

**S11**

**Y11R**

**S21**
G. PACKING:

1. Reel Dimension

![Diagram showing reel dimension]

2. Tape Dimension

![Diagram showing tape dimension]
H. RECOMMENDED REFLOW PROFILE:

![Graph showing recommended reflow profile](image-url)