A. FEATURES:

One-Port Resonator

B. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. DC voltage: 5V
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>445.925</td>
<td>446</td>
<td>446.075</td>
</tr>
<tr>
<td>Insertion Loss IL</td>
<td>dB</td>
<td>-</td>
<td>1.35</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>1.54</td>
<td>-</td>
</tr>
<tr>
<td>Motional inductance L₁</td>
<td>μH</td>
<td>-</td>
<td>82.59</td>
<td>-</td>
</tr>
<tr>
<td>Motional resistance R₁</td>
<td>Ohm</td>
<td>-</td>
<td>15.72</td>
<td>-</td>
</tr>
<tr>
<td>Parallel capacitance C₀</td>
<td>pF</td>
<td>-</td>
<td>3.36</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 T₀</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></td>
</tr>
<tr>
<td></td>
<td>SMD</td>
<td>5.0 X 5.0 X 1.4mm</td>
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<td></td>
</tr>
</tbody>
</table>
D. EQUIVILENT CIRCUIT:

One-Port Resonator:

Source Impedance

\[ 50\Omega \]

\( \#2 \)

\[ \text{C0} \]

\[ \#6 \]

Load Impedance

\[ 50\Omega \]

\[ \text{R1} \]

\[ \text{C1} \]

\[ \text{L1} \]

E. OUTLINE DRAWING:

2: Input or Output

6: Output or Input

4: 8: Case Ground

1: 3, 5, 7: Ground
F. FREQUENCY CHARACTERISTICS:
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

H. LAND PATTERN:
I. PACKING:

1. Reel Dimension

[Diagram showing reel dimensions]

2. Tape Dimension

[Diagram showing tape dimensions]

Section Α-Α

Direction of Feed
J. RECOMMENDED REFLOW PROFILE: