SAW Resonator 1040.0MHz  Model: TC0586A
Part No: MP04725  Rev No: 1

A. FEATURES:

Electrostatic Sensitive Device (ESD)

One - Port Resonator

B. MAXIMUM RATING:

1. Input Power Level: 10dBm
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>1039.950</td>
<td>1040.000</td>
<td>1040.050</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>Motional capacitance C1</td>
<td>fF</td>
<td>-</td>
<td>1.08</td>
<td>-</td>
</tr>
<tr>
<td>Motional inductance L1</td>
<td>μH</td>
<td>-</td>
<td>21.64</td>
<td>-</td>
</tr>
<tr>
<td>Motional resistance R1</td>
<td>Ohm</td>
<td>-</td>
<td>17.88</td>
<td>-</td>
</tr>
<tr>
<td>Parallel capacitance Co</td>
<td>pF</td>
<td>-</td>
<td>2.30</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>30</td>
<td>45</td>
<td>60</td>
</tr>
<tr>
<td>Package size</td>
<td>SMD 3.0 X 3.0 X 1.4mm</td>
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</tr>
</tbody>
</table>
D. EQUIVIRENT 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:

![Graph showing frequency characteristics](image)

G. TEST CIRCUIT:

```
Network analyzer

From 50Ω Network Analyzer 50Ω SAW Resonator 50Ω To 50Ω Network Analyzer
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A, C, D, F
H. PCB FOOTPRINT:
I. PACKING:

1. Reel Dimension

2. Tape Dimension
J. RECOMMENDED REFLOW PROFILE:

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