The ECS-3225MV is a miniature SMD HCMOS Oscillator with MultiVolt™ capability of 1.62 ~ 3.63 V. The 3.2 x 2.5 x 1.2 mm ceramic package is ideal for LoRa WAN, Low Power/Portable, Industrial, and IoT applications.

**ECS-3225MV SMD XO**

- 3.2 x 2.5 mm Footprint
- Extended Temp Range
- RoHS Compliant
- Wide Supply Voltage
- Low Jitter
- Compatible with 1.8V, 2.5V or 3.3V Power Supply

**DIMENSIONS (mm)**

<table>
<thead>
<tr>
<th>Tri State Function</th>
<th>Pin 1</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.7 * Vdd Min or NC</td>
<td>Active</td>
<td></td>
</tr>
<tr>
<td>0.3 * Vdd Max.</td>
<td>High Impedance</td>
<td></td>
</tr>
</tbody>
</table>

**PART NUMBERING GUIDE:** Example ECS-3225MV-250-BN-TR

<table>
<thead>
<tr>
<th>ECS</th>
<th>SERIES</th>
<th>FREQUENCY ABBREVIATION</th>
<th>* STABILITY</th>
<th>TEMP RANGE</th>
<th>PACKAGING</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECS</td>
<td>3225MV</td>
<td>250 = 25.000 MHz See Developed Frequencies Pg. 2</td>
<td>A= ±100 ppm</td>
<td>M = -20 ~ +70°C</td>
<td>-TR = Tape &amp; Reel</td>
</tr>
<tr>
<td></td>
<td>3.2 x 2.5 mm MultiVolt™ Oscillator</td>
<td>B = ±50 ppm</td>
<td>N = -40 ~ +85°C</td>
<td>1K/Reel</td>
<td></td>
</tr>
</tbody>
</table>
DEVELOPED FREQUENCIES

<table>
<thead>
<tr>
<th>FREQUENCY MHz</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.000</td>
<td>160</td>
</tr>
<tr>
<td>20.000</td>
<td>200</td>
</tr>
<tr>
<td>24.000</td>
<td>240</td>
</tr>
<tr>
<td>25.000</td>
<td>250</td>
</tr>
<tr>
<td>32.000</td>
<td>320</td>
</tr>
<tr>
<td>48.000</td>
<td>480</td>
</tr>
<tr>
<td>50.000</td>
<td>500</td>
</tr>
</tbody>
</table>

SOLDER PROFILE

Peak solder Temp +260°C ±5°C 10 ±5 Sec Max.
2 Cycles Max.
MSL 1, Lead Finish Au

POCKET TAPE DIMENSIONS (mm)

Figure 3) Suggested Reflow Profile

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>F</th>
<th>J</th>
<th>L</th>
<th>M</th>
<th>Reel Dia.</th>
<th>Qty/Reel</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.4</td>
<td>2.7</td>
<td>8.0</td>
<td>3.5</td>
<td>4.0</td>
<td>1.0</td>
<td>0.25</td>
<td>1.4</td>
<td>178</td>
<td>1000pcs</td>
</tr>
</tbody>
</table>