The ultra-miniature ECX-12L is a very compact SMD Tuning Fork Crystal. The 2.0 x 1.2 x 0.38 mm low profile ceramic package is ideal for smart cards, mobile devices, and industrial applications.

**ECX-12L SMD CRYSTAL**

- **Low Profile 0.38 mm H**
- **2.0 x 1.2 mm Footprint**
- **Low Power RTC Applications such as STM32 AN2867**
- **RoHS Compliant**
- **Applications: Automotive, COTS, Industrial, IOT**

**DIMENSIONS (mm)**

![Dimensions Diagram]

**PART NUMBERING GUIDE: Example ECS-.327-12.5-12L-TR**

<table>
<thead>
<tr>
<th>ECS - FREQUENCY ABBREVIATION</th>
<th>LOAD CAPACITANCE</th>
<th>PACKAGING</th>
<th>CUSTOM OPTIONS</th>
<th>PACKAGING</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECS</td>
<td>.327 = 32.768 KHz</td>
<td>12.5 = 12.5 pF</td>
<td>Blank = ±20 ppm</td>
<td>TR = Tape &amp; Reel 5K/Reel</td>
</tr>
<tr>
<td></td>
<td>9 = 9 pF</td>
<td>-12L = ECX-12L</td>
<td>* C = ± 10 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>7 = 7 pF</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>6 = 6 pF</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Contact ECS for availability*
POCKET TAPE DIMENSIONS (mm)

SOLDER PROFILE
Peak solder Temp +260°C Max 10 sec Max.
2 Cycles Max.
MSL 1, Lead Finish Au

Figure 1) Suggested Reflow Profile