



Scale 3:1

## Features

- ▶ **Smallest watch crystal in the world**
- ▶ **High shock & vibration resistance**
- ▶ **Military temperature range option**
- ▶ **Low power consumption**
- ▶ **Miniature ceramic package**

## Specifications

Parameters	Product	Option Code
	CC5V	
<b>Terminations:</b> Gold plated pads Ni+Sn plated pads	<input checked="" type="checkbox"/> <input type="checkbox"/>	T1 T2
<b>Frequency range:</b> 32.768kHz 32.0 ~ 100kHz	<input checked="" type="checkbox"/> <input type="checkbox"/>	
<b>Calibration tolerance:</b> ±30ppm Other	<input checked="" type="checkbox"/> <input type="checkbox"/>	specify
<b>Operating temperature range:</b> -40 to +85°C -55 to +125°C	<input checked="" type="checkbox"/> <input type="checkbox"/>	I M
<b>Storage temperature range:</b> -55 to +125°C	<input checked="" type="checkbox"/>	
<b>Circuit condition:</b> 9pF	<input checked="" type="checkbox"/>	
<b>Static capacitance (C<sub>0</sub>):</b> 1.4pF typ	<input checked="" type="checkbox"/>	
<b>Motional capacitance (C<sub>1</sub>):</b> 2.25fF typ	<input checked="" type="checkbox"/>	
<b>Equivalent series resistance:</b> 70kΩ typ, 100kΩ max	<input checked="" type="checkbox"/>	
<b>Ageing:</b> ±3ppm max first year	<input checked="" type="checkbox"/>	
<b>Drive level:</b> 1.0μW max	<input checked="" type="checkbox"/>	
<b>Turnover temperature (T<sub>0</sub>):</b> +25°C ±5°C	<input checked="" type="checkbox"/>	
<b>Frequency / temp coefficient:</b> -0.038ppm/°C <sup>2</sup> typ	<input checked="" type="checkbox"/>	
<b>Shock resistance:</b> ±5ppm, 5,000g, 0.3ms, ½ sine	<input checked="" type="checkbox"/>	
<b>Vibration resistance:</b> ±5ppm, 20g, 10.0 ~ 2,000Hz	<input checked="" type="checkbox"/>	
<b>Soldering condition:</b> Reflow, 260°C, 20 sec max	<input checked="" type="checkbox"/>	

■ Standard. □ Optional - Please specify required code(s) when ordering

## Ordering Information

Product name + termination + option codes (if any)  
+ frequency

eg: **CC5V-T1/I 32.768kHz ±30ppm** -40+85°C

**CC5V-T1/M 32.768kHz ±100ppm** -55+125°C

Option code X (eg CC5V-T1/X) denotes a custom specification.

- ◆ Available on T&R (3k or 8k pcs/reel) or trays (100pcs/tray).
- ◆ Refer to our website for T&R and soldering details.
- ◆ Ask about higher shock & vibration specifications.