

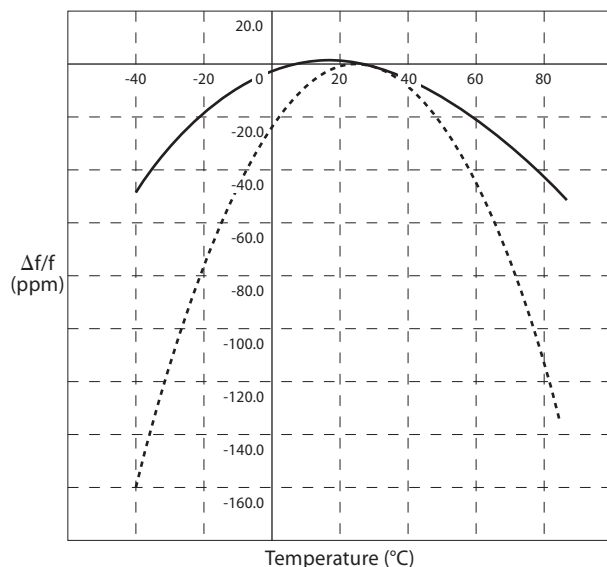
PAD	CONNECTION
1	Not connected or Enable/Disable
2	Ground
3	Output
4	Supply

Scale 2:1

## Features

- ▶ Excellent temperature performance
- ▶ Low power consumption
- ▶ High shock and vibration resistance
- ▶ Miniature ceramic package

## Temperature Characteristics



----- Conventional Tuning Fork    ——— OC1T Oscillator

## Specifications

Parameters	Product	Option Codes
	OC1T	
<b>Terminations:</b> SM, Gold flashed pads SM, Ni+Sn plated pads	<input checked="" type="checkbox"/> <input type="checkbox"/>	T1D T2D
<b>Frequency:</b> 32.768kHz	<input checked="" type="checkbox"/>	
<b>Calibration tolerance:</b> ±30ppm ±20ppm ±10ppm Other	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	B A specify
<b>Frequency stability:</b> 0 ~ -10ppm (0 to +50°C) 0 ~ -30ppm (-20 to +70°C) 0 ~ -50ppm (-40 to +85°C)	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
<b>Operating temperature range:</b> -40 to +85°C	<input checked="" type="checkbox"/>	
<b>Storage temperature range:</b> -55 to +125°C	<input checked="" type="checkbox"/>	
<b>Turnover temperature (T<sub>0</sub>):</b> +20°C	<input checked="" type="checkbox"/>	
<b>Frequency / temp coefficient:</b> -0.012ppm/°C <sup>2</sup>	<input checked="" type="checkbox"/>	
<b>Supply voltage (V<sub>DD</sub>):</b> 3.3V Operable from 2.3 ~ 3.6V	<input checked="" type="checkbox"/> <input type="checkbox"/>	
<b>Voltage coefficient:</b> ±3ppm/V max	<input checked="" type="checkbox"/>	
<b>Supply current (max):</b> 10μA	<input checked="" type="checkbox"/>	
<b>Driving ability:</b> 15pF CMOS	<input checked="" type="checkbox"/>	
<b>Output voltage:</b> '0' level (I <sub>VOL</sub> ) = 0.4V max '1' level (I <sub>VOH</sub> ) = 90%V <sub>DD</sub> min	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
<b>Start up time:</b> 3s max	<input checked="" type="checkbox"/>	
<b>Rise / fall times:</b> 100ns max	<input checked="" type="checkbox"/>	
<b>Enable / disable function:</b> None (pad 1 NC) Tristate (control via pad 1)	<input checked="" type="checkbox"/> <input type="checkbox"/>	E
<b>Shock and vibration resistance:</b> ±5ppm, 5,000g, 0.3ms, ½ sine ±5ppm, 20g, 10.0 ~ 2,000Hz	<input checked="" type="checkbox"/> <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

## Enable / Disable Function

Input (pad 1)	Output (pad 3)
Open	Enabled
'1' level	Enabled
'0' level	High Impedance

## Ordering Information

Package type + termination + option codes + frequency  
eg: **OC1T-T1D 32.768kHz** ±30ppm (standard)

**OC1T-T1D/E 32.768kHz** ±30ppm enable/disable

Option code X (eg OC1T-T1D/X) denotes a custom spec.

- ◆ Available on T&R - 1k or 2k pcs per reel.
- ◆ Refer to our website for T&R and soldering details.