



CRYSTEK
CRYSTALS
A DIVISION OF CRYSTEK CORPORATION

Temperature Compensated Crystal Oscillator Voltage Trim

CVT32 Model

3.2×5.0 mm SMD, 3V, TCVCXO

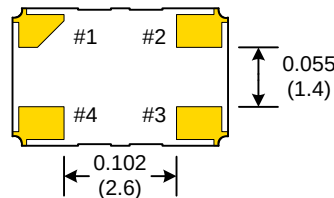
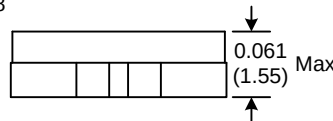
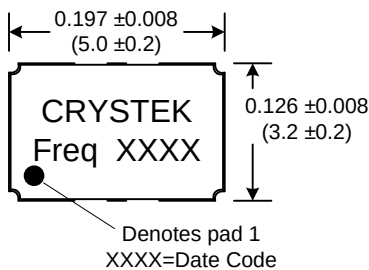
Frequency Range:	10 MHz to 30 MHz
Calibration Tolerance:	±1.5ppm
Frequency Stability:	±2.5ppm
Temperature Range:	-20°C to 80°C
Storage:	-40°C to 90°C
Input Voltage:	3.0V ±10%
Input Current:	1.2mA Typical, 2mA Max
Output:	0.8Vp-p Min
Waveform:	Clipped Sine
Load:	6-15 kohm // 2-10pF
Voltage Control:	1.5V ± 1.0V
Vcont Trim.	±4ppm Min, ±12ppm Max
Harmonics:	-12 dBC Max
Phase Noise:	10Hz offset -83 dBc/Hz Max
	100Hz offset -115 dBc/Hz Max
	1kHz offset -135 dBc/Hz Max
	10kHz offset -140 dBc/Hz Max
Aging:	1ppm Max per year



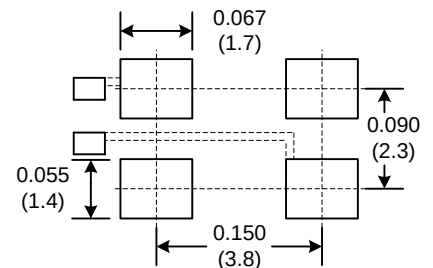
Designed to meet today's requirements for precision operation and small layout applications. Temperature compensation is accomplished through digital technology. Standard packaging is 1k tape and reel.

Dimensions inches (mm)

All dimensions are Max unless otherwise specified.

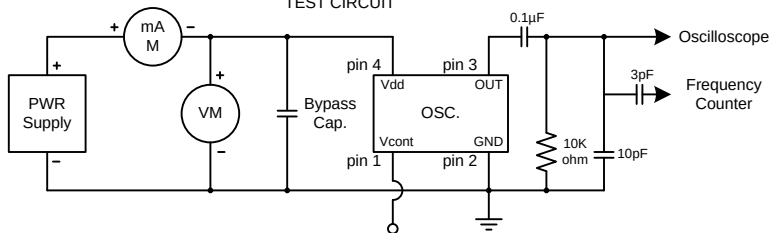


SUGGESTED PAD LAYOUT



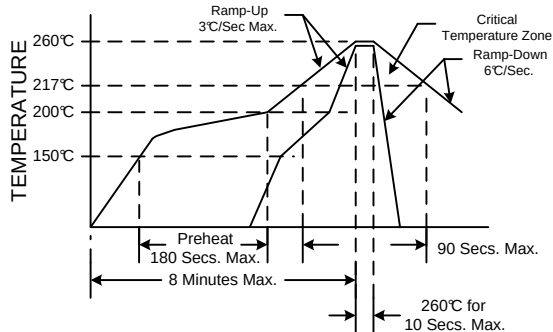
0.1uF Bypass Capacitor Recommended

TEST CIRCUIT



PIN	Function
1	Vcont
2	GND
3	OUT
4	VDD

RECOMMENDED REFLOW SOLDERING PROFILE



NOTE: Reflow Profile with 240°C peak also acceptable.

Crystek Part Number Guide

Part Number	Frequency Stability
CVT32-Frequency	± 2.5ppm

Example: P/N CVT32-19.680MHZ = 3.0V Input Voltage
±1.5ppm Calibration Tolerance
±2.5ppm Frequency Stability
-20°C to 80°C Operating Temp.
Volt. Trim, Clipped Sinewave

Note* Not Recommended for ultrasonic wash

Specifications subject to change without notice.

TD-030301 Rev. J



CRYSTEK
CORPORATION

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