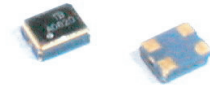


Temperature Compensated Crystal Oscillators



ULTRA MINIATURE (3.2x2.5x1.2mm) SMD VCTCXO IN LCC PACKAGE - TC32 Series

FEATURES

- RoHS Compliant (Pb-Free), Tight Stability over Wide Temperature Range
- Voltage Control Option for Electric Frequency Adjustments
- Leadless Chip Carrier (LCC) Miniature Small Package, Industry de factor Standard Footprint
- Ultra Small Size, Low Profile, Light Weight and Low Power Consumption

SPECIFICATIONS

Frequency Range	10.000 MHz to 38.400 MHz
Standard Frequency	13.0MHz, 16.3676MHz, 19.20MHz, 19.68MHz, 24.5535MHz, 26.00MHz
Input Voltage (Vcc)	2.5 - 3.5 VDC; C = 3.0VDC \pm 5% Typ
Input Current	2.2 mA Maximum (at 3V, 25°C)
Storage Temperature	-40°C to 85°C
Frequency Stability vs Temp.	\pm 2.5 ppm Maximum / -30°C to 80°C
Frequency Stability vs Vcc	\pm 0.2 ppm Maximum / Vcc \pm 5%
Frequency Stability vs Load	\pm 0.2 ppm Maximum / 10 kOhms or 10 pF \pm 10%
Aging	\pm 1 ppm Maximum per year @25°C
Output Load	10 kOhms or 10 pF \pm 10%
Output Waveform	Clipped Sine wave
Output Level	0.8Vp-p Minimum
Start-up Time	4 ms (Typical)
SSB Phase Noise	-140 dBc/Hz at 10 KHz
Control Voltage (Vc)	+1.5 \pm 1.0 VDC
Controllable Frequency	\pm 9 ppm Minimum over control voltage range (0.5 VDC to 2.5 VDC)
Typical Part Number	TC32-Frequency-CV
P/N Example	TC32-26M000-CV: VCTCXO in 3.2x2.5x1.5 mm LCC package, Clipped sine wave output, 26.00 MHz +3.0 VDC supply voltage, \pm 2.5 ppm / -30°C to 80°C, Voltage control option

OUTLINE DRAWING

