

TCXO(温补晶振)

10MHz~60MHz LT-CR series temperature-compensated voltage controlled crystal oscillator

Quick Detail:

- low phase noise, low power consumption, good stability, SMD miniaturization design, extremely low G sensitivity, wide temperature work
- Adapt to the bomb-loaded and arrow-loaded environment

Description:

The LT-CR is the newest addition to ZR's line of TCXOs. The standard part offers an ultra-tight stability of ± 0.3 ppm to ± 2 ppm over -55°C to $+85^{\circ}\text{C}$ across a supply voltage range of 3.3V to 5V. The LT-CR uses a high refresh rate, or frequency calibration rate, to maintain a linear frequency output during temperature compensation. The $14.3 \times 9.3 \times 4.5$ mm package make these components ideal for the bomb-loaded and arrow-loaded environment.

Specifications:

Electrical / Optical Characteristics ($\text{Ta}=25^{\circ}\text{C}\pm 3^{\circ}\text{C}$)

Items	Specification	Conditions
Part Number	LT-CR-TC-50M-1409	
Frequency Range	50M, 10MHz~60MHz	
Operating voltage	+ 3.3V~ + 5V	
Operating current	$\leq 60\text{mA}$	
Working temperature range	$-55^{\circ}\text{C} \sim 85^{\circ}\text{C}$	
Frequency Stability vs. Temperature	$\pm 0.3\text{ppm} \sim \pm 2\text{ppm}$	Frequency relative to 25°C
Initial accuracy of reference temperature	$\leq \pm 1\text{ppm}$	$@25^{\circ}\text{C} \pm 5^{\circ}\text{C}$
Output Waveform	CMOS	
Output Load	50Ω	
Output power	8dBm~10dBm	
Harmonic wave	$\leq -30\text{dBc}$	

Stray	$\leq -75\text{dBc}$	
Voltage-controlled voltage range(VC)	0V~5V or 0V~3.3V	
Voltage-controlled frequency range	$\geq \pm 5\text{ppm}$	
Voltage-controlled slope	positive	
Voltage-controlled linearity	$\leq 10\%$	
Phase noise(typical)	-145dBc/Hz@1kHz; -155dBc/Hz@10kHz; -155dBc/Hz@100kHz	Typical frequency:50MHz
Acceleration sensitivity	0.05ppb/g(customizable)	20Hz~2KHz 18g
Dimension	14.3×9.3×4.5mm	
Note: For specifications beyond the above table, please contact us for customization.		

Outline Drawing (Unit: mm):

