

TCXO(温补晶振)

10MHz~150MHz LT-CR series temperature-compensated voltage controlled crystal oscillator

Quick Detail:

- National production design, low phase noise, low power consumption, good stability, wide temperature work, standardized packaging
- Adapt to the ground and on-board environment

Description:

The LT-CR-TC-16M-2020 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 20 mm x 20 mm x 10.5 mm ceramic package make these components ideal for ground and on-board environment

Specifications:

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

Items	Specification	Conditions
Part Number	LT-CR-TC-16M-2020	
Frequency Range	16MHz, 10MHz~150MHz	
Operating Voltage	3.3~5.5V	
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	$\leq 1\text{ppm}$	@ $25^{\circ}\text{C}\pm 5^{\circ}\text{C}$
Output Waveform	CMOS	
Output Load	$50\ \Omega$	
Output power	8dBm~10dBm	
Harmonic wave	$\leq -30\text{dBc}$	
Stray	$\leq -90\text{dBm}$	

Phase noise(typical)	-145dBc/Hz@1kHz; -155dBc/Hz@10kHz; -155dBc/Hz@100kHz	Typical frequency:100MHz
Acceleration sensitivity	0.01ppb/g(customizable)	20Hz~2KHz 10g
Dimension	20×20×10.5mm	
Note: For specifications beyond the above table, please contact us for customization.		

Outline Drawing (Unit: mm):

