

# TCXO

## 80~125MHz 7.0×5.0mm,High Frequency Range, Ultra Low Phase Noise TCXO

### Quick Detail:

- Aluminum housing
- -0.5/6V VDD options
- -55°C~95°C operating temperature
- Small package
- High precision
- Low phase noise
- Optional three-state control function
- Anti-overload > 30000g
- CE, RoHS, REACH compliant
- 1 Year Warranty

### Description:

The LT-CR-BT0507M is the newest addition to ZR's line of TCXOs. The standard part offers an ultra-tight stability of  $\pm 0.28\text{ppm}$  to  $\pm 2.0\text{ppm}$  over -55°C to +95°C across a supply voltage range of -0.5V/6.0V. The bt0507m uses a high refresh rate, or frequency calibration rate, to maintain a linear frequency output during temperature compensation. The 7.0 mm x 5.0 mm x3.3 mm ceramic package and options for 1,000- or 3,000-piece reels make these components ideal for satellite communication, military communication equipment, base station, test and measurement equipment.

### Specifications:

#### Electrical / Optical Characteristics (Ta=25°C±3°C)

Items	specification	Condition
Part Number	LT-CR-BT0507M	
Frequency Range	80MHz~125MHz	
Operating Voltage(VDD)	-0.5V/6.0V	
Operating Temperature	-55°C~+95°C	
Freq. Stability Vs. Temp.	$\pm 0.28\text{ppm}$ ~ $\pm 2.0\text{ppm}$	-40°C~+85°C
Frequency Tolerance	$\pm 0.5\text{ppm}$ ~ $\pm 2.0\text{ppm}$	At shipment, nominal EFC, +25°C

Output Waveform	LVC MOS	
Voltage-control led voltage	$1.5V \pm 1.0V$	
Absolute Pull Range		
Phase Noise	-85dBc@10Hz	At $+25^\circ C$
	-120dBc@100Hz	
	-142dBc@1kHz	
	-165dBc@100kHz	
Overload Resistance		
Dimension	7.0 mm x 5.0 mm x3.3 mm	

#### Outline Drawing (Unit: mm):

