

# TCXO

## 50~156.25MHz 20×12mm, Vibration Insensitive, High Precision &Low Phase noise TCXO

### Quick Detail:

- Aluminum housing
- 3.3 / 5V VCC options
- -50°C~85°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-BT1220Z is the newest addition to ZR's line of TCXOs. The standard part offers an ultra-tight stability of  $\pm 0.2\text{ppm}$  to  $\pm 2.0\text{ppm}$  over -50°C to +85°C across a supply voltage range of 3.3V / 5.0V. The bt1220-z uses a high refresh rate, or frequency calibration rate, to maintain a linear frequency output during temperature compensation. The 20.2 mm x 12.6 mm x 7.35 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-BT1220Z	
Frequency Range	50MHz~156.25MHz	
Operating Voltage(VCC)	3.3V / 5V	
Operating Temperature	-50°C~+85°C	
Freq. Stability Vs. Temp.	$\pm 0.2\text{ppm}$ ~ $\pm 2.0\text{ppm}$	-20°C~+70°C @Height above 6mm

Frequency Tolerance	$\pm 0.5\text{ppm} \sim \pm 1.5\text{ppm}$	At shipment, nominal EFC, $+25^{\circ}\text{C}$
Output Waveform	Sine Wave	
Voltage-controlled voltage	$1.5\text{V} \pm 1.0\text{V}$	
Absolute Pull Range		
Phase Noise	$< -145\text{dBc} @ 50 \sim 100\text{MHz}$	@1kHz
	$< -140\text{dBc} @ 50 \sim 100\text{MHz} @ 102.4 \sim 122.88\text{MHz}$	
	$< -135\text{dBc} @ 50 \sim 100\text{MHz} @ 102.4 \sim 122.88\text{MHz} @ 125 \sim 156.25\text{MHz}$	
	$< -130\text{dBc} @ 50 \sim 100\text{MHz} @ 102.4 \sim 122.88\text{MHz} @ 125 \sim 156.25\text{MHz}$	
Overload Resistance		
Dimension	20.2 mm x 12.6 mm x 7.35 mm	

**Outline Drawing (Unit: mm):**

