

TCXO

10~52MHz 7.0X5.0mm,SMD, Stratum III Level, Ultra Stable with Wide Temperature Range 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-BT0507A-B is the newest addition to ZR's line of TCXOs. The standard part offers an ultra-tight stability of $\pm 0.5\text{ppm}$ to $\pm 1.0\text{ppm}$ over -55°C to +95°C across a supply voltage range of -0.5V /6V. The bt0507a-b 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 x 1.9 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-BT0507A-B	
Frequency Range	10MHz~52MHz	
Operating Voltage(VDD)	-0.5~6V	
Operating Temperature	-55°C~+95°C	
Freq. Stability Vs. Temp.	$\pm 0.05\text{ppm} \sim \pm 0.5\text{ppm}$	-20°C~+70°C
	$\pm 0.1\text{ppm} \sim \pm 0.5\text{ppm}$	-40°C~+85°C
	$\pm 0.2\text{ppm} \sim \pm 1.0\text{ppm}$	-50°C~+90°C

	$\pm 0.5\text{ppm} \sim \pm 1.0\text{ppm}$	$-55^{\circ}\text{C} \sim +95^{\circ}\text{C}$
Frequency Tolerance	$\pm 0.3\text{ppm} \sim \pm 0.5\text{ppm}$	At shipment, nominal EFC, $+25^{\circ}\text{C}$
Output Waveform	LVTMOS, Clipped Sine Wave	
Voltage-controlled voltage	$1.5\text{V} \pm 1.0\text{V}$	
Absolute Pull Range		
Phase Noise	$< -140\text{dBc}@10\text{MHz}$	@1KHz
	$< -135\text{dBc}@10\text{MHz}@12.8\text{MHz} \sim 20\text{MHz}$	
	$< -130\text{dBc}@10\text{MHz}@12.8\text{MHz} \sim 20\text{MHz}$ @20.48MHz~38.4MHz	
	$< -125\text{dBc}@10\text{MHz}@12.8\text{MHz} \sim 20\text{MHz}$ @20.48MHz~38.4MHz@ $\geq 40\text{MHz}$	
Overload Resistance		
Dimension	$7.0 \times 5.0 \times 1.9\text{mm}$	

Outline Drawing (Unit: mm):

