

# TCXO

## 10~52MHz 5.0X3.2mm, Analog Circuit, High Stable, Low Phase Noise TCXO

### Quick Detail:

- Aluminum housing
- -0.5/6V VDD options
- -40°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-BT0503A is the newest addition to ZR's line of TCXOs. The standard part offers an ultra-tight stability of  $\pm 0.05\text{ppm}$  to  $\pm 0.5\text{ppm}$  over -40°C to +85°C across a supply voltage range of -0.5V/6V. The bt0503a uses a high refresh rate, or frequency calibration rate, to maintain a linear frequency output during temperature compensation. The 5.0 mm x 3.2 mm x 1.2 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.

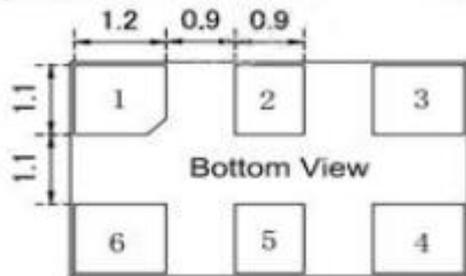
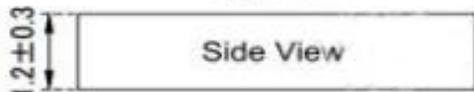
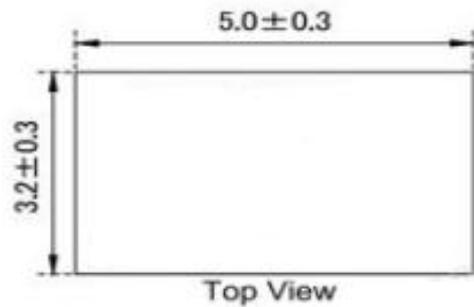
### Specifications:

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

Items	specification	Condition
Part Number	LT-CR-BT0503A	
Frequency Range	10MHz~52MHz	
Operating Voltage(VDD)	-0.5/6V	
Operating Temperature	-40°C~+85°C	
Freq. Stability Vs. Temp.	$\pm 0.05\text{ppm}$ ~ $\pm 0.5\text{ppm}$	-40°C~+85°C
Frequency Tolerance	$\pm 0.5\text{ppm}$	At shipment, nominal EFC, +25°C
Output Waveform	HCMOS	

Voltage-controlled voltage	1.5V±1.0V	
Absolute Pull Range		
Phase Noise	<-150dBc@10MHz <-145dBc@16MHz~40MHz <-140dBc@50MHz	
Overload Resistance		
Dimension	5.0×3.2×1.2mm	

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



**Pin Connections**

Pin1	Vcon/NC
Pin2	NC
Pin3	GND
Pin4	Output
Pin5	OE/NC
Pin6	Vcc

**Recommended Land Pattern**

