

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 x 3.3 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-controlled voltage | 1.5V±1.0V | |
| Absolute Pull Range | | |
| Phase Noise | -85dBc@10Hz | At +25℃ |
| | -120dBc@100Hz | |
| | -142dBc@1kHz | |
| | -165dBc@100kHz | |
| Overload Resistance | | |
| Dimension | 7.0 mm x 5.0 mm x3.3 mm | |

Outline Drawing (Unit: mm):

