

Features

Good Frequency Stability
Good Phase Noise Response

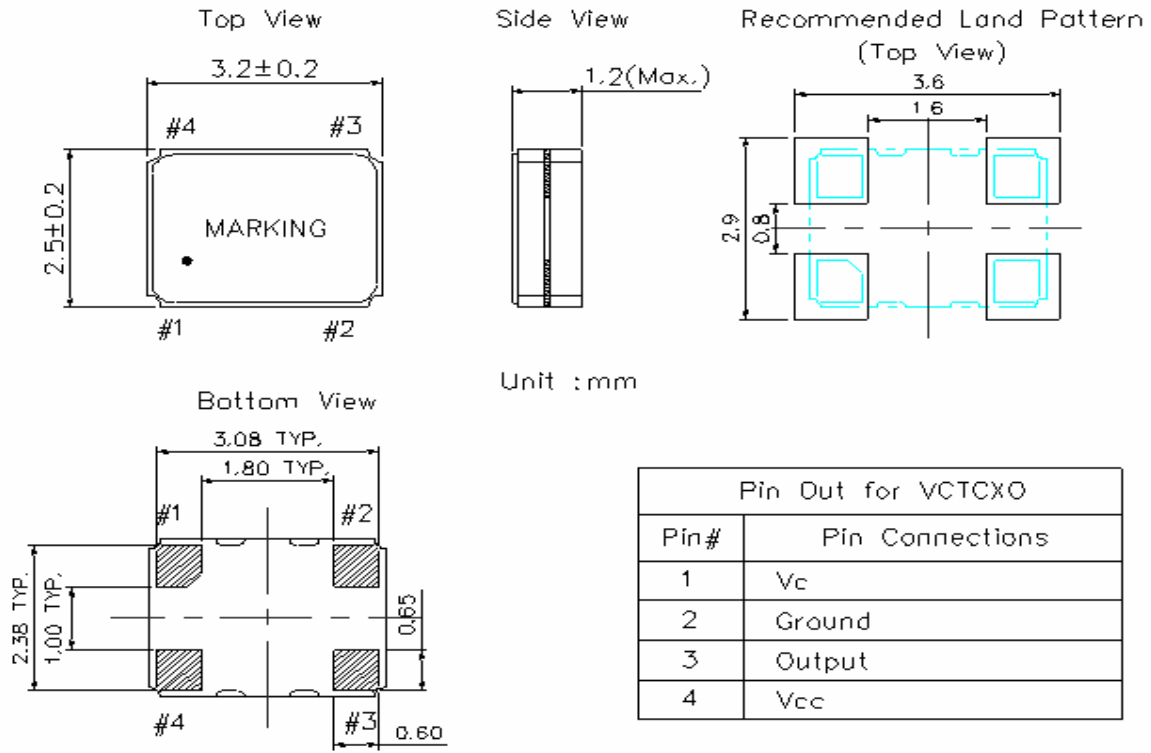
Description and Applications

3.2x2.5mm VCTCXO for use in wireless communications devices for RFM

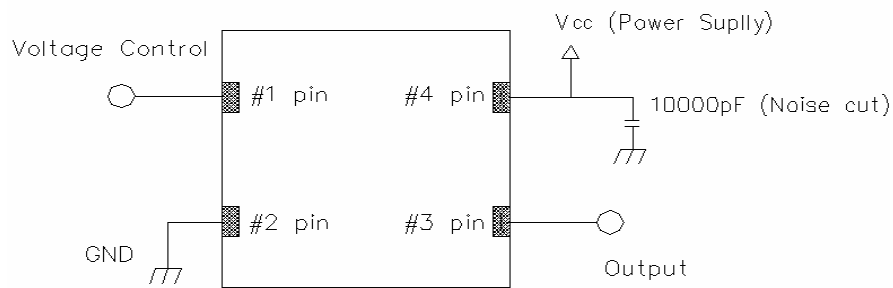
Electrical Characteristics

| TCXO3200T-19.200000-9-0-1 | Specifications |
|--|--|
| Nominal Frequency, Fo | 19.200000 MHz |
| Storage Temperature Range | -40°C to +85°C |
| Operating Temperature Range | -30°C to +70°C |
| Power Supply Voltage, Vcc | 3.0 V +/- 5% |
| Output Voltage with Load 10pF//10KΩ, Vout | 0.8 Vp-p min |
| Output Waveform | Clipped Sinewave |
| Control Voltage, Vcon | 1.4 +/- 1.0 V |
| Vcon Frequency Control Range (1.4+/-1.0 V) | +/-8 ~+/-16 ppm/V |
| Power Supply Current, Icc | 2.0 mA max |
| Frequency Tolerance after reflow (Vcon=1.5V) | +/- 2 ppm max @25°C +/-2°C |
| Frequency Stability a. Vs. Temperature (-20~70°C) b. Vs. Load varied 10pF//10KΩ+/-10% Vs. Supply Voltage varied 3.0V+/-5% | +/- 1.5 ppm reference to 25°C +/- 0.2. ppm +/- 0.2 ppm |
| Start Up Time (90% of final RF level in Vp-p) | 5.0 msec max. |
| Harmonics | -5.0 dBc max |
| Aging | +/-1.0 ppm/year @25°C |
| Ssb Phase Noise (@1KHz Carrier Offset) | -130 dBc/Hz max |

Dimensions (mm)

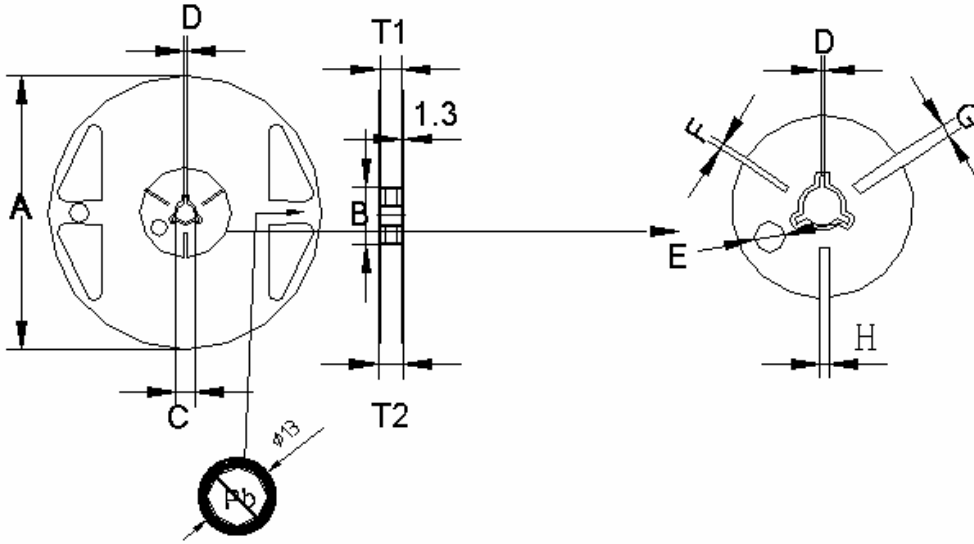


Recommended Circuit



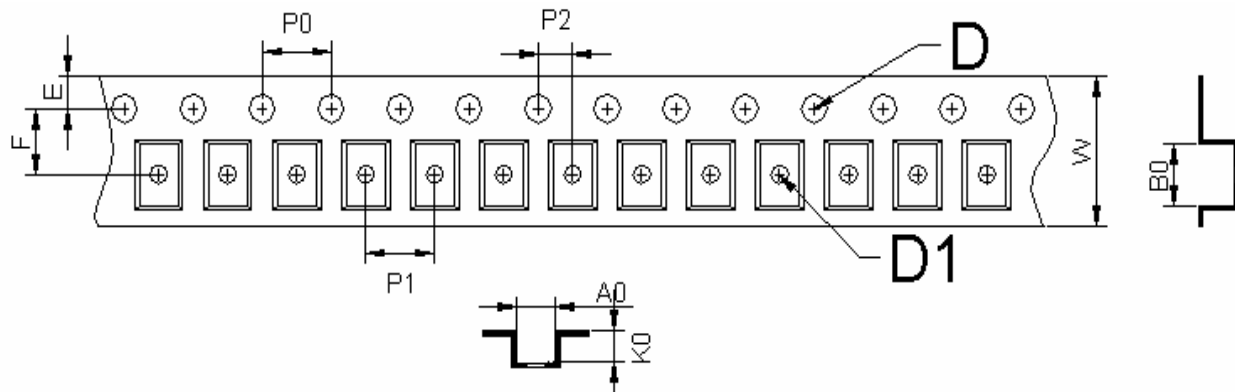
Packing (mm)

1. Reel Dimension



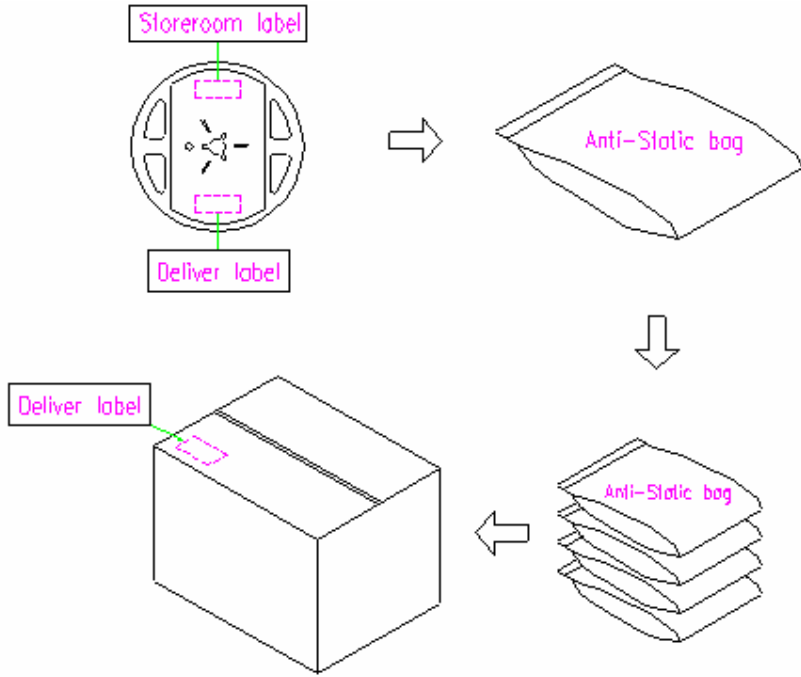
| | A | B | C | D | E | F | H | G | T2 | T1 | T3 |
|------------|------|------|------|------|------|------|------|------|------|------|------|
| Dimensions | 180 | 60 | 13.0 | 2.0 | 9.1 | 2.9 | 3.9 | 4.9 | 11.4 | 9.0 | 1.2 |
| Tolerance | ±1.0 | +1.0 | ±0.2 | ±0.5 | ±0.5 | ±0.5 | ±0.5 | ±0.5 | ±1.0 | ±0.3 | ±0.1 |

2. Tape Dimension



| Unit: mm | A0 | B0 | W | F | E | P0 | P1 | P2 | D1 | D | K0 | t |
|-----------|------|------|-----------|-------|------|------|------|-------|------------|-------------|------|-------|
| Dimension | 2.80 | 3.71 | 8.00 | 3.5 | 1.75 | 4.00 | 4.00 | 2 | 1.50 | 1.0 | 1.75 | 0.25 |
| Tolerance | ±0.1 | ±0.1 | +0.3/-0.1 | ±0.05 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | +0.1/-0.00 | +0.25/-0.00 | ±0.1 | ±0.02 |

Packing Quantity/Packing



Reflow Profile

