



ULTRA MINIATURE (5x3.2x1.7mm) SMD TCXO/VCTCXO IN LCC PACKAGE - TC53 Series

FEATURES

- RoHS Compliant (Pb-Free), Tight Stability over Wide Temperature Range
- Voltage Control Option for Electric Frequency Adjustments
- Leadless Chip Carrier (LCC) Miniature Small Package, Industry de factor Standard Footprint
- Small Size, Low Profile, Light Weight and Low Power Consumption

SPECIFICATIONS

Frequency Range	10.000 MHz to 26.000 MHz
Standard Frequency	12.8M, 13M, 14.4M, 14.7456M, 16M, 16.3676M, 16.3677M, 16.368M, 16.8M, 19.2M, 20M, 24.5535M, 26M
Input Voltage (Vcc)	2.8 - 5.0 VDC (A=5.0V±5%; B=3.3V±5%; C=3.0V±5%; D=2.8V±5%)
Input Current	2.0 mA Maximum (at 3V, 25°C)
Storage Temperature	-40°C to 85°C
Frequency Stability vs Temp.	±2.5 ppm Maximum / -30°C to 80°C
Frequency Stability vs Vcc	±0.2 ppm Maximum / Vcc ± 5%
Frequency Stability vs Load	±0.2 ppm Maximum / 10 kOhms or 10 pF ±10%
Aging	±2 ppm Maximum per year @25°C
Output Load	10 kOhms or 10 pF ±10%
Output Waveform	Clipped Sine wave
Output Level	0.8Vp-p Minimum
Start-up Time	2 ms (Typical)
SSB Phase Noise	-125 dBc/Hz at 1 KHz
Control Voltage (Vc, Option)	+1.5±1.0 VDC
Controllable Frequency	±5 ppm Minimum over control voltage range (0.5 VDC to 2.5 VDC)
Typical Part Number	TC53-Frequency-Vcc-V(Voltage control option)
P/N Example	TC53-13M000-BV: VCTCXO in 5x3.2x1.7 mm LCC package, Clipped sine wave output, 13.00 MHz +3.3 VDC supply voltage, ±2.5 ppm / -30°C to 80°C, Voltage control option

OUTLINE DRAWING

