ULTRA MINIATURE (5x3.2x1.2mm) SMD TCXO/VCTCXO IN LCC PACKAGE - TC53A 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 40.000 MHz
Input Voltage (Vcc)	A=5.0V±5%; B=3.3V±5%; C=3.0V±5%
Input Current	2.0 mA Maximum (at 3V, 25°C)
Storage Temperature	-40°C to 85°C
Frequency Stability vs Temp.	015 = ±1.5 ppm; 020 = ±2 ppm; 025 = ±2.5 ppm; 050 = ±5 ppm
Temperature Range	A = 0°C to 70°C; B = -40°C to 85°C; F = 0°C to 50°C; H = -30°C to 75°C
Standard Stability	025H = ±2.5 ppm / -30°C to 75°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	±1 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)	+2.5±1.0 VDC for Vcc = 5.0V; 1.5±1.0 VDC for Vcc = 3.0V
Controllable Frequency Range	±12 ppm Minimum for Vcc = 5.0V; ±8 ppm Minimum for Vcc = 3.0V

Creating a Part Number **TC53A-12M800-A V 025 H**

- Product Series
- Frequency
- Supply Voltage: A = 5.0V, B = 3.3V
- Tuning: V, blank
- Frequency Stability: 015 = ±1.5 ppm, 020 = ±2 ppm, 025 = ±2.5 ppm
- Operating Temperature Range: A = 0 to 70°C, B = -40 to 85°C, H = -30 to 75°C, X = Customized Temp Range

OUTLINE DRAWING