

## ULTRA MINIATURE (2.5x2.0x0.9 mm) HIGH STABILITY SMD TCXO/VCTCXO - TC22A Series

## **FEATURES**

- RoHS Compliant (Pb-Free), Tight Stability (±0.5 ppm) over Wide Temperature Range
- Voltage Control Option for Electric Frequency Adjustments
- Leadless Chip Carrier (LCC) Miniature Small Package, Industry de factor Standard Footprint
- Ultra Small Size, Low Profile, Light Weight and Low Power Consumption

## **SPECIFICATIONS**

Frequency Range 10.000 MHz to 52.000 MHz

**Available Frequencies** 13, 16, 16.367667, 16.368, 16.369, 16.8, 17.5, 19.2

20, 26, 27.456, 38.4, 40, 52 MHz

Input Voltage (Vcc) 1.7 - 3.3 VDC

Input Current 1.5 mA Maximum (at Vcc = 1.8V, 10kOhms//10 pF)

Storage Temperature -40°C to 85°C

Frequency Tolerance ±1.0 ppm Maximum at 25°C

Frequency Stability vs Temp.  $\pm 0.5 \text{ ppm} / -30^{\circ}\text{C}$  to  $85^{\circ}\text{C}$ , at Vc = 0.9 VDC

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 one year at 25°C

Output Load10 kOhms or 10 pF ±10%Output WaveformClipped Sine waveOutput Level0.8Vp-p MinimumStart-up Time4 ms (Typical)

SSB Phase Noise (Typ) -110 dBc/Hz at 100 Hz

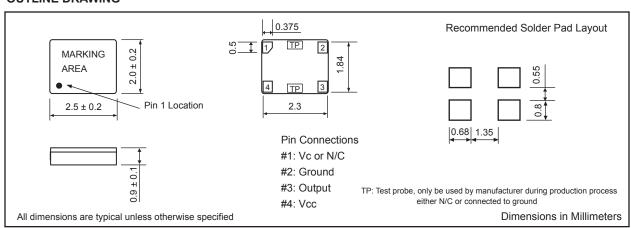
-130 dBc/Hz at 1KHz -145 dBc/Hz at 10KHz -145 dBc/Hz at 100KHz

Control Voltage (Vc, Option) +0.9±0.6 VDC

**Controllable Frequency** ±3 to ±5 ppm over control voltage range, positive slope

Part Number TC22A-Freq (i.e. TC22A-52M000)

## **OUTLINE DRAWING**



www.4timing.com © 2009 Fortiming Corp. USA