



ULTRA MINIATURE (2.5x2.0x0.9 mm) STANDARD SMD TCXO/VCTCXO - TC22B Series

FEATURES

- RoHS Compliant (Pb-Free), Wide Frequency 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, 14.4, 14.7456, 16.368, 16.369, 16.8, 17.5, 19.2, 20, 26, 27.456, 38.4, 40, 52 MHz

Input Voltage (Vcc) B = 3.3VDC; C = 2.5VDC; D = 1.8VDC
Input Current 2.0 mA Maximum
Storage Temperature -40°C to 85°C

Frequency Tolerance ±1.0 ppm Maximum at 25°C
Frequency Stability vs Temp. ±2.0 ppm / -30°C to 85°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 one year at 25°C

Output Load 10 kOhms or 10 pF ±10%
Output Waveform Clipped Sine wave
Output Level 0.8Vp-p Minimum
Start-up Time 4 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±0.4V for Vcc=1.8V, 2.5V or +1.4±1.0V for Vcc=3.3V
Controllable Frequency ±5 to ±13 ppm over control voltage range, positive slope

Part Number TC22B-Frequency-Supply voltage (i.e. TC22B-52M000-B)

OUTLINE DRAWING

