HCMOS/TTL TCXO / VC-TCXO IN 14 PIN DIP COMPATIBLE PACKAGE - TCTC Series

FEATURES

- RoHS Compliant (Pb-Free), Tight Stability over Wide Temperature Range
- Available with both Voltage Control for Electric Frequency Adjustments and Internal Trimmer
- HCMOS/TTL Compatible, Low Phase Noise
- 14-pin DIP Compatible Package, Industry de factor Standard Footprint

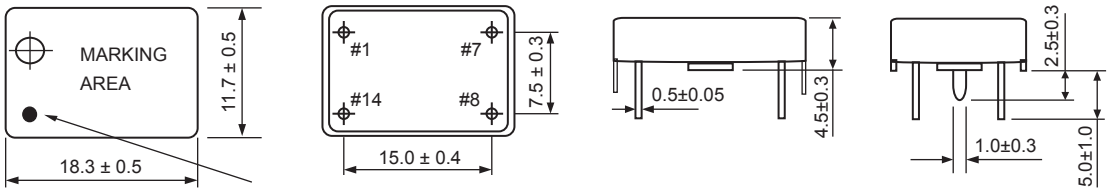
SPECIFICATIONS

Frequency Range	1.5 MHz to 40 MHz
Standard Frequency	12.8/13.0/14.4/15.36/16.8/19.44/20.0/24.576/30.0/40.0 MHz
Supply Voltage (Vcc)	A = 5.0 VDC ± 5%; B = 3.3 VDC ± 5%
Input Current	20 mA Maximum (1.5 MHz to 9.999 MHz); 30 mA Maximum (10 MHz to 35 MHz)
Storage Temperature	-40°C to 85°C
Controllable Frequency Option	VI = Voltage control: ±5 ppm Minimum + Internal trimmer: ±3 ppm Minimum I = Internal trimmer only (no voltage control input): ±3 ppm Minimum
Control Voltage (Vc)	2.5±2.0 VDC for Vcc = 5 VDC; 1.65±1.5 VDC for Vcc = 3.3 VDC
Setability of Vc at Fnom, 25°C	2.5±0.5 V DC for 5.0V part; 1.65±0.4 VDC for 3.3V part
Frequency Stability vs Temp.	005 = ±0.5 ppm; 010 = ±1 ppm; 015 = ±1.5 ppm; 020 = ±2 ppm; 025 = ±2.5 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	±0.3 ppm Maximum / Vcc ± 5%
Frequency Stability vs Load	±0.3 ppm Maximum / ±2 pF
Aging	±1 ppm Maximum per year @25°C
Phase Noise	-145 dBc/Hz at 1KHz
Output Load	10 TTL or 15 pF HCMOS Maximum
Logic "1" / Logic "0" Level	TTL: 2.4V Minimum / 0.4V Maximum; HCMOS: 0.9Vcc Minimum / 0.1Vcc Maximum
Rise/Fall Time (Tr/Tf)	10 ns Maximum
Duty Cycle	0 = No tristate 60/40%; 2 = No tristate 55/45%

Creating a Part Number **TCTC-25M000-A VI 010 A 0**

- Product Series: TCTC
- Frequency: 25M000
- Supply Voltage: A = 5.0V; B = 3.3V
- Tuning: VI; I
- Frequency Stability: 010 = ±1.0 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
- Duty Cycle: see above

OUTLINE DRAWING



Pin Connections
#1: Vc or N/C
#7: Ground
#8: Output
#14: Vcc

All dimensions are typical unless otherwise specified

Dimensions in Millimeters