Pletronics, Inc.
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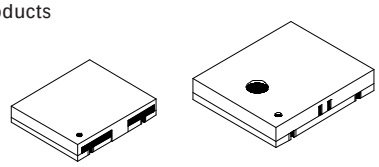
Manufacturer of High Quality Frequency Control Products

TV5 TCVCXO Series



- Surface Mount Temp. Compensated Voltage Controlled Xtal Oscillator with or without Trimmer
- Clipped Sine Wave Compatible

10.00 MHz – 60.00 MHz

Standard Specifications

Operating Temperature Range		0 to +50°C to -40 to +85°C available
Overall Frequency Stability	vs. Temp	± 1.5 to ± 15 PPM over Operating Temperature Range available
	vs. Vcc	± 0.5 PPM maximum over Vcc ± 5%
	Aging	± 3 PPM first year, ± 1 PPM per year thereafter at 25°C ± 5%
Frequency Adj by Trimmer		± 3 PPM minimum
Supply Voltage (Vcc)		5.0 volts and 3.3 volts available
Output Voltage Levels		1 volt p-p minimum
Supply Current (Icc)		2 to 5 mA max
Output Load (see Test Circuit 7)		10 K / 10 pF
Control Voltage Range (CVR)		0.5 to 4.5 volts for 5.0 volt Supply; 0.0 to 3.3 volts for 3.3 volt Supply
Pullablity over CVR		± 5, 10, 15 PPM. Consult factory for ± 25 PPM.
Linearity		± 10% (Consult factory for ± 5%)

Part Numbering Guide

Portions of the part number that appear after the frequency may not be marked on part (C of C provided)

3TV5 1 C 100 A S - 10.0M - XXX (Internal Code or blank)

Consult factory for available frequencies and specs. Not all options available for all frequencies. A special p/n may be assigned.

Frequency Stability is inclusive of frequency shifts due to calibration, temperature, supply voltage, shock, vibration and load

Model / Supply Voltage
TV5= 5.0 volts ±5%
3TV5= 3.3 volts ±5%

TCVCXO Package
1=11.4x9.6x2mm, w/o trimmer
8=11.4x9.6x2mm, with trimmer
9=9x7x2mm, w/o trimmer

Logic
C: Clipped Sine Wave

Frequency in MHz

Frequency Deviation (Pullability) over CVR
S: ± 5 PPM
R: ± 10 PPM
Q: ± 15 PPM
T: ± 25 PPM

Operating Temperature Range {Tightest FS available}
A: 0 to +50°C {±1.5 PPM}
B: 0 to +70°C {±1.5 PPM}
C: -10 to +70°C {± 2.0 PPM}
D: -20 to +75°C {± 2.0 PPM}
E: -30 to +75°C {± 2.5 PPM}
F: -40 to +85°C {± 5.0 PPM}

Frequency Stability (FS)
015: ± 1.5 PPM
020: ± 2.0 PPM
025: ± 2.5 PPM
030: ± 3.0 PPM
050: ± 5.0 PPM
100: ± 10.0 PPM
150: ± 15.0 PPM

Mechanical: inches (mm) not to scale

Due to part size and factory abilities, part marking may vary from lot to lot and may contain our part number or an internal code.