

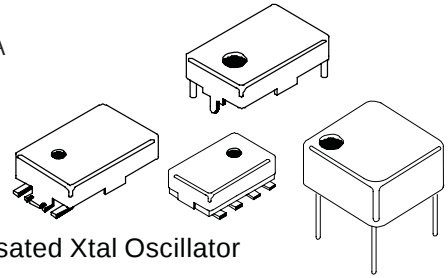


Pletronics, Inc.

19013 36th Ave. W, Suite H • Lynnwood, WA 98036 USA

Manufacturer of High Quality Frequency Control Products

TC4 TCXO Series



• Surface Mount or Full Size Metal Thru-Hole Temperature Compensated Xtal Oscillator

• HCMOS, Clipped Sine Wave or Sine Wave Compatible

10.00 MHz – 60.00 MHz

RoHS Compliance: Not recommended for use in high temperature lead free assembly process. Use TCA4, TCD4 series

Standard Specifications

Operating Temperature Range	0 to +50°C to -40 to +85°C available		
Overall Frequency Stability	vs. Temp	± 1.0 to ± 10 PPM over Operating Temperature Range available	
	vs. Vcc / Load	± 0.5 PPM maximum over Vcc ± 5% / ± 0.3 PPM maximum over Load ± 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 Logic		HCMOS	Clipped Sine Wave
Output Voltage Levels		Logic "1" 90% of Vcc min Logic "0" 10% of Vcc max	1 volt p-p minimum
Supply Current (Icc)		20 to 40 mA max	2 to 5 mA max
Output Load (see Test Circuit 1)		10 TTL Loads or 15pF	10 K // 10 pF
			Sine Wave
			Consult Factory

On Test Circuit for Clipped Sine Wave only: Add a 20 K resistor from output to ground

Part Numbering Guide

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

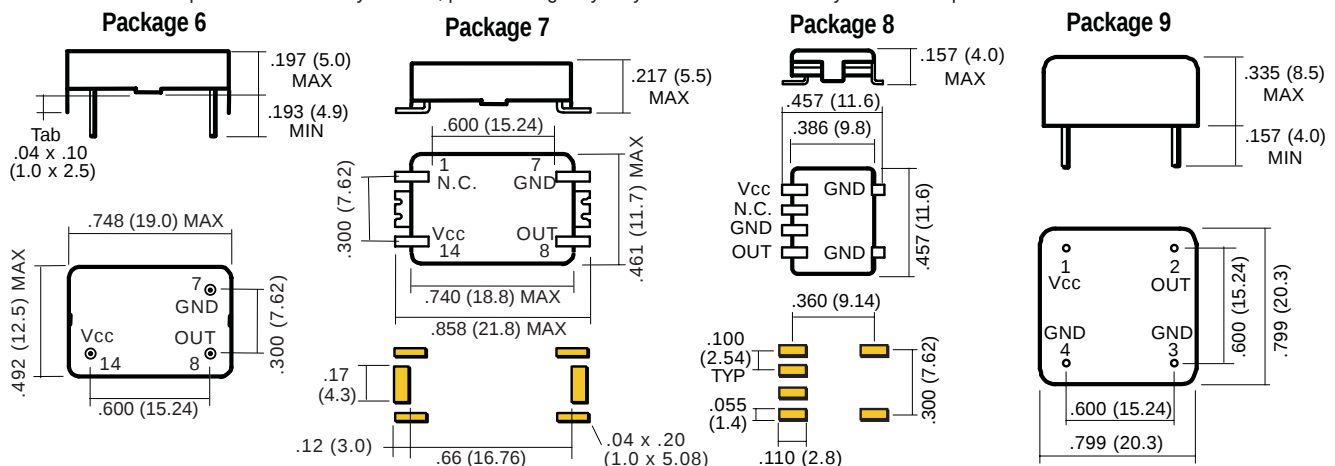
Packaging Tube or on Pads, SMD: bulk	Model / Supply Voltage	3TC4	6	H	100	A	- 10.0M	- XXX
	TC4= 5.0 volts ±5% 3TC4= 3.3 volts ±5%							
	TCXO Package, Max Height							
	6=Thru-Hole, 5.0mm 7=Surface Mount, 5.5mm 8=Surface Mount, 4.0mm 9=Thru-Hole, 8.5mm							
	Logic							
	C: Clipped Sine Wave H: HCMOS S: Sine Wave							
	Frequency in MHz							
	Operating Temperature Range {Tightest FS available}							
	A: 0 to +50°C {±1.0 PPM} D: -20 to +75°C {±2.0 PPM}							
	B: 0 to +70°C {±1.5 PPM} E: -30 to +75°C {±2.5 PPM}							
	C: -10 to +70°C {±2.0 PPM} F: -40 to +85°C {±5.0 PPM}							
	Frequency Stability (FS)							
	010: ± 1.0 PPM 030: ± 3.0 PPM							
	015: ± 1.5 PPM 050: ± 5.0 PPM							
	020: ± 2.0 PPM 100: ± 10.0 PPM							
	025: ± 2.5 PPM							

Consult factory for available frequencies and specs. Not all options available for all frequencies. A special part number may be assigned.

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

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.



Timmer hole locations may vary

Nov 2005