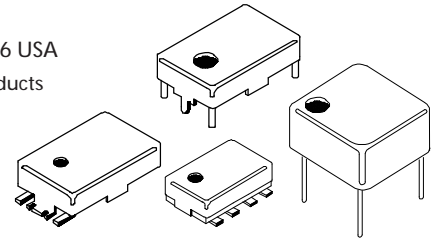




# Pletronics, Inc.

19013 36th Ave. W, Suite H • Lynnwood, WA 98036 USA  
Manufacturer of High Quality Frequency Control Products



## TV4 TCVCXO Series

- Surface Mount or Full Size Metal Thru-Hole Temp. Compensated Voltage Controlled Xtal Oscillator
  - HCMOS, Clipped Sine Wave or 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   | ± 1.0 to ± 15 PPM over Operating Temperature Range available       |                 |
|                                  | vs. Vcc / Load Aging   | ± 0.5 PPM maximum over Vcc ± 5% / ± 0.3 PPM maximum over Load ± 5% |                 |
| Frequency Adj by Trimmer         | ± 3 PPM first year, ± 1 PPM per year thereafter at 25°C ± 5%               |  |                 |
| Supply Voltage (Vcc)             | ± 3 PPM minimum  |  |                 |
| Output Logic                     | HCMOS  | Clipped Sine Wave  | Sine Wave       |
| Output Voltage Levels            | Logic "1" 90% of Vcc min<br>Logic "0" 10% of Vcc max                       | 1 volt p-p minimum   | Consult Factory |
| Supply Current (Icc)             | 20 to 40 mA max  | 2 to 5 mA max  |                 |
| Output Load (see Test Circuit 7) | 10 TTL Loads or 15pF   | 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 |  |                 |
| Pullability over CVR             | ± 5, 10, 15 PPM. Consult factory for ± 25 PPM.                             |  |                 |
| Linearity                        | ± 10% (Consult factory for ± 5%)   |  |                 |

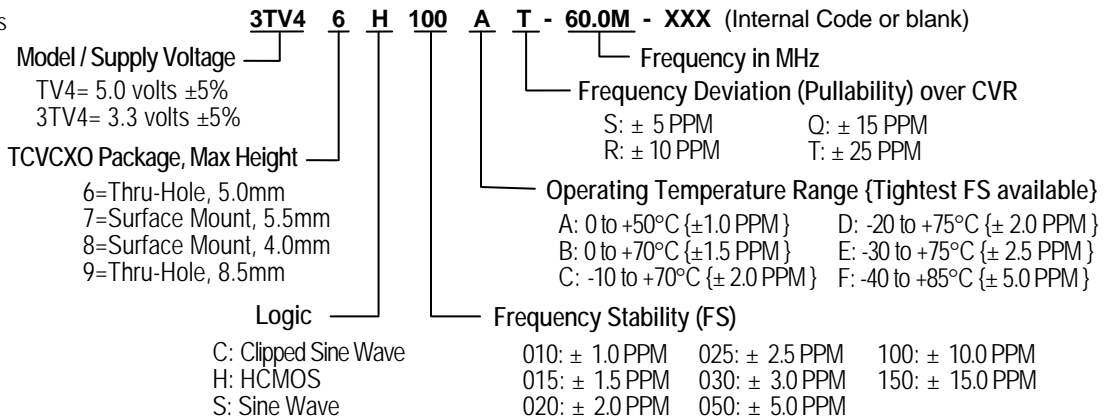
On Test Circuit for Clipped Sine Wave only: Add a 20 K resistor from output to ground

### Part Numbering Guide

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

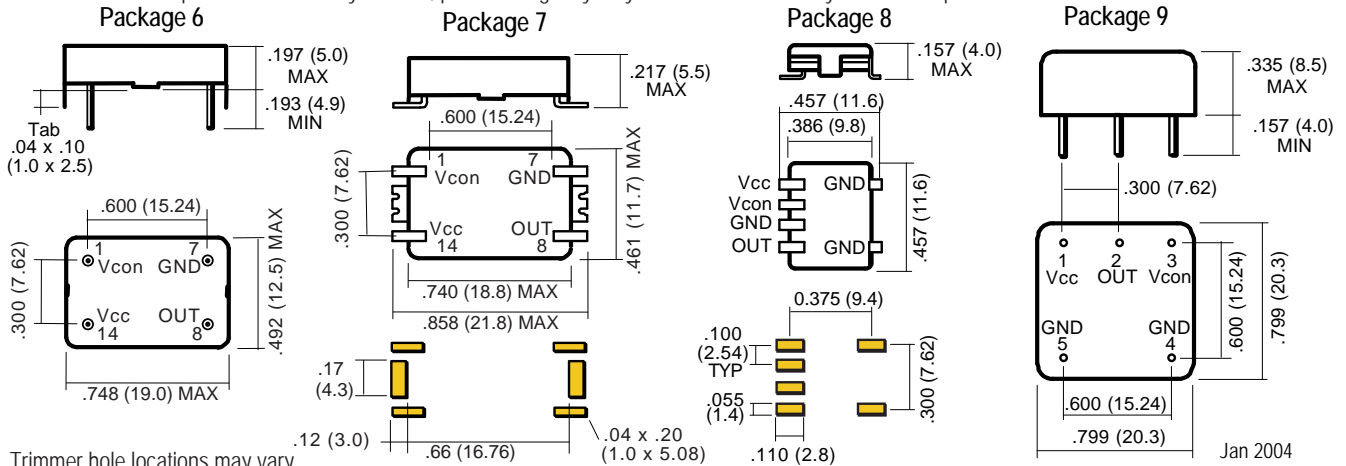
Frequency Stability is inclusive of frequency shifts due to calibration, temperature, supply voltage, shock, vibration and load

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



### 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.



Trimmer hole locations may vary

Jan 2004