

Microprocessor Compensated, Tight Stability

- **OCXO** performance in a TCXO
- **Rugged construction for severe environments**
- Tight stability, from ±7x10-8
- Squarewave (CMOS) or Clipped Sinewave outputs
- Through hole or SMD package option





DESCRIPTION

T1220 series Microprocessor-Compensated Crystal Oscillators (MCXOs) provide OCXO performance in a TCXO. The part is packaged in either a standard through-hole 14 pin DIL equivalent package or a SMD version. Ability to operate in severe environments makes this an ideal high-performance TCXO.

GENERAL SPECIFICATION

Frequency Range:	10.0MHz to 50.0MHz	
Output		
Model T1220:	CMOS Squarewave	
Model T1221	Clipped Sinewave	
Load	••	
Model T1220:	15pF	
Model T1221:	10pF//10kΩ	
Symmetry:	50%±10% (Model T1220)	
Frequency Stability		
vs. Supply:	±1x10-7	
vs. Ageing	±3x10-7 per year after 30 days (typ.)	
Supply Voltage:	+5.0 Volts or +3.3 Volts	
Input Current:	30mA max.	

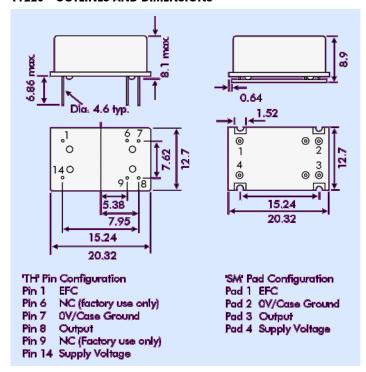
STABILITY OVER TEMPERATURE

Temp. Range	Stability	Option Code
-20~+70°C	±7x10-8	N78
-40~+85°C	±1x10-7	T 17

PHASE NOISE (CMOS 10.0MHz TYPICAL)

-95
-120
-140
-150
-155

T1220 - OUTLINES AND DIMENSIONS



PART NUMBERING PROCEDURE

Example:

T1220-T17-3.3-SM-10.0MHz

(Model number - Stability - Supply Voltage - Package - Frequency)

ENVIRONMENTAL

-55 to +105°C Storage Temperature:

per MIL-STD-202, Meth. 214, Cond. I-J Random Vibration: Sine Vibration: per MIL-STD-202, Meth. 204, Cond. D per MIL-STD-202, Meth. 213, Cond. F Shock: