

CLOCK OSCILLATORS

T1500 Clock Oscillator, Stratum III Compatible



T1500

RoHS Complaint Optional

Features:

- ◆ High frequency capability
- ◆ Hermetically sealed welded package
- ◆ Tight Stability (± 10 ppm)
- ◆ Tight symmetry available
- ◆ HCMOS/ TTL compatible
- ◆ Case ground minimizes EMI

Model: T1500 Series Specification

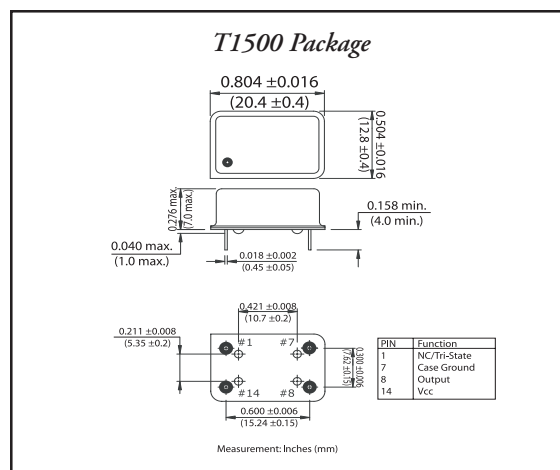
Parameter	Symbol	Unit	Min.		Typ.		Max.	
			5.0V	3.3V	5.0V	3.3V	5.0V	3.3V
Center Frequency	f_O	MHz	1.00	1.00			70.00	70.00
Operating Temperature Range	T	$^{\circ}$ C			See Table			
Frequency Stability ⁽¹⁾		ppm	See Table					
Supply Voltage	V_{DD}	VDC	4.5	3.0	5.0	3.3	5.5	3.6
Supply Current	I_{DD}							
1MHz to 20MHz		mA	15	10			20	15
20MHz to 50MHz		mA	40	30			30	25
50MHz to 70MHz		mA	50	40			40	35
Load			10TTL/ 50TTL: 15pF/50pF CMOS					
Output Levels								
Output High (TTL)	V_{OH}	V	2.4					
Output High (CMOS)	V_{OH}	V	90%					
Output Low (TTL)	V_{OL}	V					0.4	
Output Low (CMOS)	V_{OL}	V					10%	
Transition Times	T_R / T_F							
1MHz to 20MHz		ns			8	10		
20MHz to 70MHz		ns			5	6		
Output Logic	SYM	%	50 \pm 10% standard; 50 \pm 5% optional					
Aging		ppm	± 5.0 ppm/ per year					
Storage Temperature		$^{\circ}$ C	-55 to +125					
Tri-State								
Output Active	Tri-State	V	4.0	2.0				
Output in High Impedance State	Tri-State	V					0.8	0.5
Period Jitter: Absolute		ps	± 100					
Period Jitter: One Sigma		ps	± 25					

(1) Inclusive of calibration @ 25 $^{\circ}$ C, operating temperature, Input voltage change, load change, shock, and vibration. Tighter stabilities available- contact Factory.

CLOCK OSCILLATOR: T1500 Series Thru-Hole

CLOCK OSCILLATOR: T1500 Series Thru-Hole

Temperature	Stability (ppm)
-20 to 70 $^{\circ}$ C	$\pm 10, 20, \pm 25, \pm 50$
-40 to 85 $^{\circ}$ C	$\pm 20, \pm 25, \pm 50$



Tellurian® Technologies, Inc.

1801 Hicks Road • Rolling Meadows, IL 60008 • Tel 847-934-4141 • Fax 847-934-4175

• Email: info@telluriantech.com • www.telluriantech.com