



T5000P

RoHS Compliant Standard

CLOCK OSCILLATORS

T5000P Series Clock Oscillator

Programmable, Low Profile, SMD

Features:

- ◆ Programmable
- ◆ Ceramic SMD package
- ◆ Tape and Reel Available
- ◆ HCMOS/ TTL compatible

Model: T5000P Series Specifications

Parameter	Unit	3.3V	2.5V	1.8V
Center Frequency	MHz	1.0		75 ⁽¹⁾
Operating Temperature Range	°C	See Table		
Frequency Stability ⁽²⁾	ppm	See Table		
Supply Voltage	VDC			
Output Voltage	$V_{OH} = 10\% V_{CC} \text{ max.}$		$V_{OL} = 90\% V_{CC} \text{ min.}$	
Load	pF	15 max.		
Supply Current				
1.00MHz < 19.99MHz	mA	10	8	6
20.00MHz < 39.99MHz	mA	15	10	7
40.00MHz < 74.99MHz	mA	15	10	10
75.00MHz < 89.99MHz	mA	20	15	-
90.00MHz < Fo	mA	25	-	-
Transition Times Rise/ Fall Time (@ 10% - 90% Vcc)	ns	5		
Duty Cycle	%	45/55		
Tri-State (Input to Pin 1)				
Output Active	V	0.7 min		
Output In High Impedance State	V	0.3 max.		
Start Time	mSec	8 max.		
Absolute Clock Period Jitter	pSec	100 max.		
Standby Current	uA	10 max.		

(1) Maximum Frequency for Voltages: 75 MHz at 1.8 V; 90 MHz at 2.5 V; 110 MHz at 3.3 V.

(2) Inclusive of calibration @ 25°C, operating temperature, Input voltage change, load change, shock, and vibration. Tighter stabilities available- contact Factory.

See T5000 for package drawing
See T5000 for Table

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

CLOCK OSCILLATOR: T5000P Series Programmable Clock

CLOCK OSCILLATOR: T5000P Series Programmable Clock