



V3000T



RoHS Compliant Standard

# VCXOs

## V3000T Series VCXO

### Miniature Ultra Low Profile, SMD

#### Features:

- ◆ Miniature Ultra Low Profile
- ◆ Compatible with pick and place
- ◆ LCC, Ceramic SMD package
- ◆ Tape and Reel Available

#### Model: V3000T Specification

Parameter	V3000T	
Frequency Range	1.50 to 200.00 MHz	
Operating Temperature	See Table	
Frequency Stability	See Table	
Supply Voltage	3.3 V	5.0 V
Start Up Time	10 mSec max.	
Frequency Deviation (Pin 1)	±100 ppm min.	
Linearity	±10%	
Supply Current (1.5 to 20MHz)	15mA max.	10mA max.
(20 to 50MHz)	30mA max.	20mA max.
(50 to 80MHz)	35mA max.	30mA max.
(80 to 160MHz)	-----	40mA max.
(160 to 200MHz)	-----	50mA max.
Load	15pF HCMOS	
Duty Cycle	40 / 50% (45 / 55% optional)	
Rise and Fall Time (1.5 to 20MHz)	8 nsec max.	10 nsec max.
(20 to 50MHz)	5 nsec max.	6 nsec max.
(50 to 80MHz)	5 nsec max.	5 nsec max.
(80 to 200MHz)	-----	5 nsec max.
Aging	±3 ppm/year max.	
Jitter	40 pSec max.	
Tri-State (Output Active)	2.0 V min.	4.0 V min.
(High Impedance)	0.5 V max.	0.8 V max.
Modulation Bandwidth (1.5 to 50MHz)	20 kHz max.	
(50 to 80MHz)	30 kHz max.	
(80 to 200MHz)	45 kHz max.	
Input Impedance (1.5 to 50MHz)	50 kΩ max.	
(50 to 80MHz)	160 kΩ max.	
(80 to 200MHz)	1000 kΩ max.	

VCXO: V3000T Surface Mount VCXO

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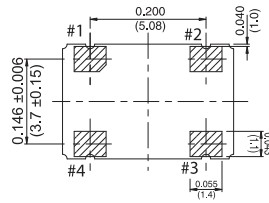
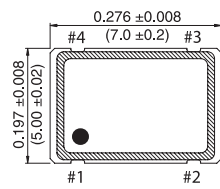
See Next Page for Drawing

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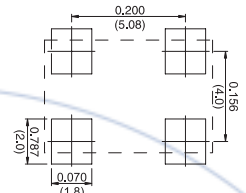
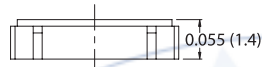
1801 Hicks Road • Rolling Meadows, IL 60008 • Tel 847-934-4141 • Fax 847-934-4175

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

### V3000 Package



Measurements: Inches (mm)

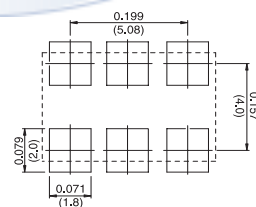
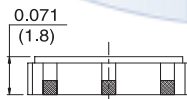
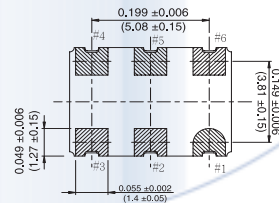
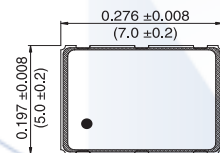


Recommended Soldering Pattern

PIN	FUNCTION
#1	Tri-State
#2	Ground
#3	Output
#4	Vcc

Temperature	Stability (ppm)
0 to 50°C	±25, ±50
-10 to 60°C	±25, ±50
-20 to 70°C	±25, ±50
-40 to 85°C	±50

### V3000T Package



Recommended Soldering Pattern

PIN	Function
#1	Vcon
#2	Tri-state/NC
#3	Ground
#4	Output
#5	NC/ Tri-state opt.
#6	Vcc

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