



V3000

RoHS Complaint Standard

VCXOs V3000 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: V3000 Specification

Parameter	V3000	
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: V3000 Surface Mount VCXO

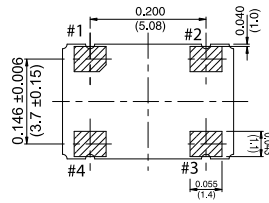
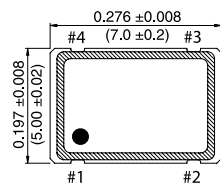
VCXO: V3000 Surface Mount VCXO

See Page 60 for Drawing

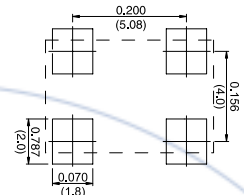
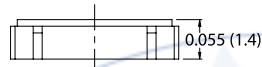
Tellurian® Technologies, Inc.

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V3000 Package



Measurements: Inches (mm)

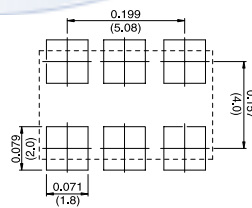
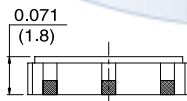
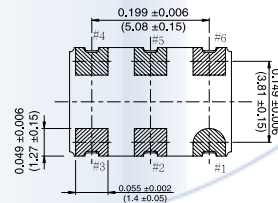
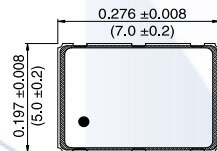


Recommended Soldering Pattern

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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