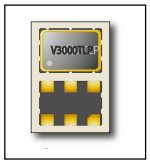
TELLURIAN TECHNOLOGIES, INC.

V3000TLP
Voltage Controlled Crystal Oscillator



FEATURES:

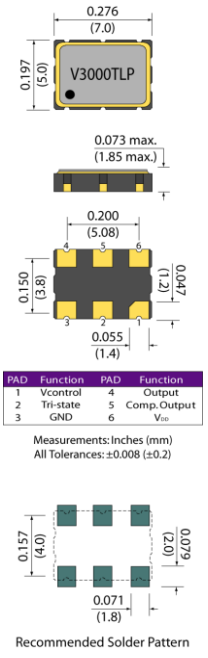
LVPECL — **Low Stability**

Ceramic Package — **7.0 x 5.0 x 1.85 mm**

Parameter	Unit	Min.	Max.
Frequency Range	MHz	9.5	622.08
Frequency Stability	ppm	See Table	
Storage Temperature Range	°C	-55	+125
Voltage	V	2.5, 3.3 ±5%	
Current Consumption	mA	-	80
Output Waveform		LVPECL	
Output Load	pF	-	15
Output Voltage Logic High (VOH)	V	-1.62	-
Output Voltage Logic Low (VOL)	V	-	-1.025
Offset Voltage	V	1.125	1.375
Transition Time (Rise and Fall)	nSec	0.7	1.0
Linearity		±10, ±15, ±20%	
Duty Cycle		45/55% standard	
Tristate			
Enable	V	0.7	-
Disable	V	-	0.3
Frequency Deviation	ppm	±100	-
Control Voltage		See Note	
Start-up Time	mSec	-	3
RMS Jitter (Fundamental Mode)	pSec	-	1
RMS Jitter (Multiplier)	pSec	-	4

Frequency Stability is inclusive of Operating Temperature Range, Supply Voltage, Aging, Current and Load.
Control Voltage: 1.25 ±1.05V for 2.5V; 1.65±1.35V for 3.3V.

V3000TLP Package



Frequency Stability

Temperature	Stability (ppm)
-10 to 60°C	±20, ±25, ±30, ±50
-20 to 70°C	±25, ±30, ±50
-40 to 85°C	±50

Environmental

Terminal Material	W
Terminal Plating	Ni-Au
REACH Compliant	Yes
RoHS Compliant	Yes
RoHS Exemptions	No
Re-flow Temp. Max.	260°C
MSL	1

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Example Part Number: V3000TLP-18-A-27-24M576

V3000TLP - [ ] - [ ] - [ ] - [ ]

1	2	3	4
Voltage	**Stability**	**Temp. Range**	**Frequency**
33= 3.3 V	A= ±50	16= -10 to 60°C	Frequency in MHz
28= 2.8V	B= ±30	27= -20 to 70°C	i.e. 24M576
18= 1.8V	C= ±25	48= -40 to 85°C	use M for decimal point
	D= ±20		

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