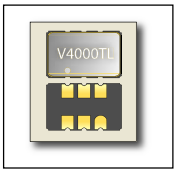
TELLURIAN TECHNOLOGIES, INC.

V4000TL
Voltage Controlled Crystal Oscillator



FEATURES:

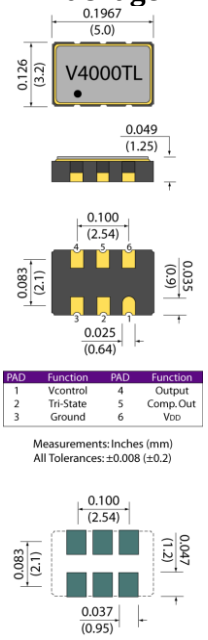
LVDS **Non-Multiplied**

Ceramic Package **5.0 x 3.2 x 1.36 mm**

Parameter	Unit	Min.	Max.
Frequency Range	MHz	60	175
Frequency Stability	ppm	See Table	
Storage Temperature Range	°C	-55	+125
Voltage	V	2.5, 3.3 ±5%	
Current Consumption	mA	-	75
Output Waveform		LVDS	
Output Load	Ohms	-	50
Output Voltage Logic High (V_{OH})	V	2.275	-
Output Voltage Logic Low (V_{OL})	V	-	1.68
Transition Time (Rise and Fall)	nSec	-	1
Tri-state			
Enable	V	0.7	-
Disable	V	-	0.3
Frequency Deviation	ppm	±50	-
Start-up Time	mSec	-	3
Modulation Bandwidth	kHz	20	-
Input Impedance	MOhms	5	-
RMS Jitter			
60.00MHz to 100.00 MHz	pSec	-	1
>100.00 MHz to 125.00 MHz	pSec	-	0.7
>125.00 MHz to 150.00 MHz	pSec	-	0.5
>150.00 MHz to 175.00 MHz	pSec	-	0.3
Phase Noise			
@ 100 Hz	dBc/Hz	-	-85
@ 1 kHz	dBc/Hz		-115
@ 10 kHz	dBc/Hz		-130

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.

V4000TL Package



Recommended Solder Pattern

Frequency Stability

Temperature	Stability (ppm)
-10 to 60°C	±50, ±100
-20 to 70°C	±50, ±100
-40 to 85°C	±50, ±100

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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

Example Part Number: V4000TL-18-A-27-24M576

V4000TL - [1] - [2] - [3] - [4]

1	2	3	4
Voltage	**Stability**	**Temp. Range**	**Frequency**
33= 3.3 V	A= ±100	16= -10 to 60°C	Frequency in MHz
25= 2.5V	B= ±50	27= -20 to 70°C	i.e. 24M576
		48= -40 to 85°C	use M for decimal point

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