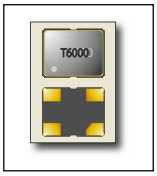
TELLURIAN TECHNOLOGIES, INC.

T6000
Crystal Oscillator



FEATURES:

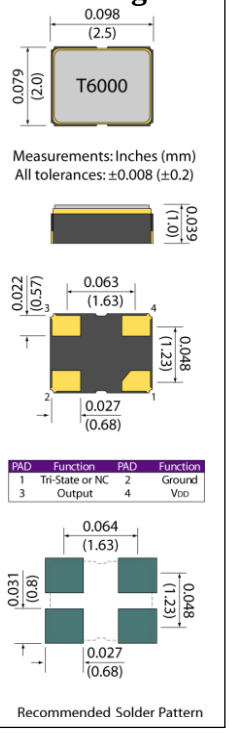
High Frequency **Tight Stability**

Ceramic Package **2.5 x 2.0 x 1.0 mm**

Parameter	Unit	Min.	Max.
Frequency Range	MHz	1.000	110.000
Frequency Stability	ppm	See Table	
Storage Temperature Range	°C	-55	+125
Supply Voltage	V	1.8, 2.5, 3.3 ±5%	
Current Consumption	mA	-	15
Output Waveform		CMOS	
Output Load	pF	-	15
Output Voltage Logic High (VOH)	V	90% of V_{DD}	
Output Voltage Logic Low (VOL)	V	-	10% of V_{DD}
Transition Time (Rise and Fall)	nSec	-	10
Duty Cycle		45/55% standard	
Tri-state Enable		No Connection Pin 1	
Enable	V	70% of V_{DD}	
Disable	V	-	30% of V_{DD}
Start-up Time	mSec	-	2
Standby Current	µA	-	15
Period Jitter: Integrated (12kHz to 20MHz)	pSec	-	1
Period Jitter: Absolute	pSec	-	40

Frequency Stability is inclusive of calibration at 25°C, operating temperature range, input voltage variation, load variation, shock, vibration, and aging.

T6000 Package



Frequency Stability

Temperature	Stability (ppm)
-10 to +60°C	±20, ±25, ±30, ±50
-20 to +70°C	±20, ±25, ±30, ±50
-40 to +85°C	±25, ±30, ±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: T6000-18-A-27-24M576

T6000 - [1] - [2] - [3] - [4]

1 Voltage	2 Stability	3 Temp. Range	4 Frequency
18= 1.8 V	A= ±50	16= -10 to +60°C	Frequency in MHz
25= 2.5 V	B= ±30	27= -20 to +70°C	i.e. 24M576
33= 3.3 V	C= ±25	48= -40 to +85°C	use M for decimal point
	D= ±20		

Note: Consult factory for additional potential options not listed.

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Subject to change without notice