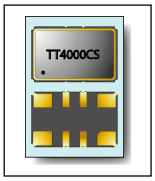
TELLURIAN TECHNOLOGIES, INC.

TT-VT4000CS
Crystal Oscillator

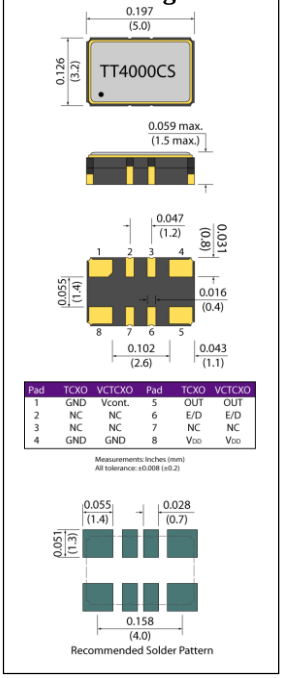


FEATURES:
Clipped Sine
Ceramic Package

Low Voltage
5.0 x 3.2 x 1.5 mm

Parameter	Unit	Min.	Max.
Frequency Range	MHz	10	52
Frequency Tolerance at 25°C	ppm	-	±2.0
Frequency Stability			
Vs. Supply Voltage (±5%) change	ppm	-	±0.5
Vs. Load (±10%) change	ppm	-	±0.2
Vs. Aging	ppm	-	±0.5
Current Consumption	mA	-	2.4
Storage Temperature Range	°C	-55	+125
Voltage		2.7, 3.0, 3.3, 5.0 ±5%	
Output Waveform		Clipped Sine	
Output Level	Vp-p	0.8	-
Load		10KOhms//10pF	
Control Voltage Range (VCTCXO)	V	0.5	2.5
Frequency Deviation (VCTCXO)	ppm	±3	±15
VC Input Impedance (VCTCXO)	KOhms	500	-
Start-up Time	mSec	-	2
Phase Noise			
@ 1 kHz	dBc/Hz	-135 typical	

TT-VT4000CS Package



Frequency Stability vs. Temperature Range

Temperature	Stability (ppm)
-10 to 60°C	±0.05, ±0.1, ±0.2, ±0.28, ±0.5
-20 to 70°C	±0.05, ±0.1, ±0.2, ±0.28, ±0.5
-40 to 85°C	±0.2, ±0.28, ±0.5

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: VT4000CS-A-18-A-27-24M576

VT4000CS - [1] - [2] - [3] - [4] - [5]

1 Stability	2 Voltage	3 Pull Range	4 Temp. Range	5 Frequency
A = ±0.5	50= 5.0 V	A = ±15	16= -10 to 60°C	Frequency in MHz
B = ±0.28	33= 3.3V	B = ±10	27= -20 to 70°C	i.e. 24M576
C = ±0.2	30= 3.0V	C = ±8	48= -40 to 85°C	use M for decimal
D = ±0.1	27= 27V	D = ±5		point
E = ±0.05		E = ±3		

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