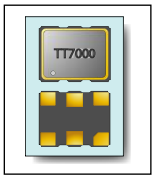
TELLURIAN TECHNOLOGIES, INC.

TT-VT7000
Crystal Oscillator

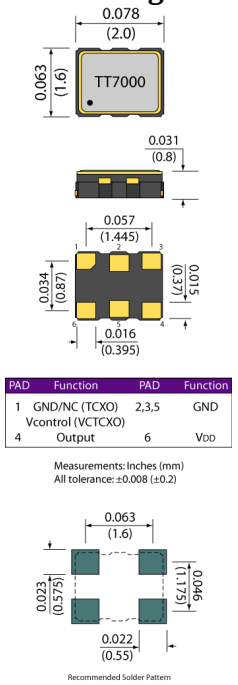


FEATURES:
Clipped Sine
Ceramic Package

Low Voltage
2.0 x 1.6 x 0.8 mm

Parameter	Unit	Min.	Max.
Frequency Range	MHz	13	52
Frequency Tolerance at 25°C	ppm	-	±0.5
Frequency Stability			
Vs. Supply Voltage (±5%) change	ppm	-	±0.5
Vs. Load (±10%) change	ppm	-	±0.2
Vs. Aging	ppm	-	±1.0
Current Consumption	mA	-	2.0
Storage Temperature Range	°C	-55	+125
Voltage		1.8, 2.5, 3.0 ±5%	
Output Waveform		Clipped Sine	
Output Level	Vp-p	0.8	-
Load		10KOhms//10pF	
Control Voltage Range (VCTCXO)	V	See Table	
Frequency Deviation (VCTCXO)	ppm	±5	±15
VC Input Impedance (VCTCXO)	KOhms	500	-
Start-up Time	mSec	-	2
Phase Noise			
@ 1 kHz	dBc/Hz	-135 typical	

TT-VT7000 Package



Frequency Stability vs. Temperature Range

Temperature	Stability (ppm)
-10 to 60°C	±0.5, ±1.0, ±1.5, ±2.0, ±2.5
-20 to 70°C	±0.5, ±1.0, ±1.5, ±2.0, ±2.5
-40 to 85°C	±1.0, ±1.5, ±2.0, ±2.5

Control Voltage

V	Min.	Max.
3.0	0.5	2.5
2.5	0.4	2.4
1.8	0.3	1.5

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: VT7000-A-18-A-27-24M576

VT7000 - [1] - [2] - [3] - [4] - [5]

1 Stability	2 Voltage	3 Pull Range	4 Temp. Range	5 Frequency
A = ±2.5	30= 3.0 V	A = ±15	16= -10 to 60°C	Frequency in MHz
B = ±2.0	25= 2.5V	B = ±10	27= -20 to 70°C	i.e. 24M576
C = ±1.5	18= 1.8V	C = ±8	48= -40 to 85°C	use M for decimal
D = ±1.0		D = ±5		point
E = ±0.5		T = TCXO		

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