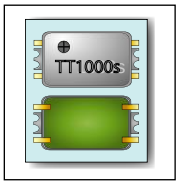
TELLURIAN TECHNOLOGIES, INC.

TT-VT1000s
Crystal Oscillator

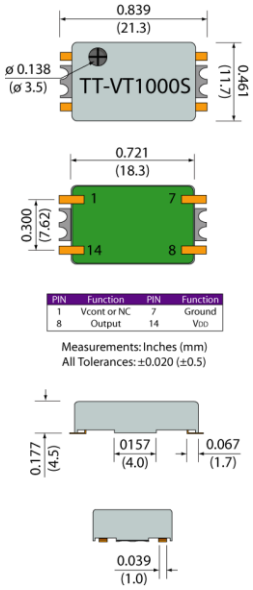
FEATURES:
Low Cost
Gull-Wing Metal Can

CMOS and Clipped Sine
21.3 x 11.7 x 5.0 mm



Parameter	Unit	Min.	Max.
Frequency Range (Clipped Sine)	MHz	1.2	200
Frequency Range (CMOS)	MHz	9.6	50
Frequency Tolerance at 25°C	ppm	-	±2.0
Frequency Stability			
Vs. Supply Voltage (±5%) change	ppm	-	±0.3
Vs. Load (±10%) change	ppm	-	±0.3
Vs. Aging	ppm	-	±1.0
Storage Temperature Range	°C	-55	+125
Current Consumption (CMOS)	mA	20	60
Current Consumption (Clipped Sine)	mA	2	5
Load (CMOS)	pF	15	
Load (Clipped Sine)		10 KOhms//10pF	
Output Level (CMOS)	V	90%	10%
Output Level (Clipped Sine)	V p-p	0.8	-
Duty Cycle (CMOS only)	%	45/55	
Voltage		3.3, 5.0 ±5%	
Output Level	Vp-p	0.8	-
Load		10KOhms//10pF	
Frequency Adjustment (Trimmer)	ppm	±3.0	-
Control Voltage Range (VCTCXO)	V	0.5	2.5
Frequency Deviation (VCTCXO)	ppm	±5	±10
Rise and Fall Time (CMOS Only)	ns	-	4
Start-up Time	mSec	-	2

TT-VT1000s Package



Frequency Stability vs. Temperature Range

Temperature	Stability (ppm)
-10 to 60°C	±1.5, ±2.0, ±2.5, ±5.0
-20 to 70°C	±2.0, ±2.5, ±5.0
-40 to 85°C	±2.5, ±5.0

Environmental

Terminal Material	KOVAR
Terminal Plating	Sn-Ag-Cu
REACH Compliant	Yes
RoHS Compliant	Yes
RoHS Exemptions	No
Re-flow Temp. Max.	260°C
MSL	1

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Example Part Number: VT1000s-A-18-A-27-24M576

VT1000s - [1] - [2] - [3] - [4] - [5]

1	2	3	4	5
Stability	**Voltage**	**Pull Range**	**Temp. Range**	**Frequency**
A = ±1.5	5= 50 V	A = ±10	16= -10 to 60°C	Frequency in MHz
B = ±2.0	3.3= 3.3V	B = ±8	27= -20 to 70°C	i.e. 24M576
C = ±2.5		C = ±5	48= -40 to 85°C	use M for decimal
D = ±5.0		T= TCXO		point

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