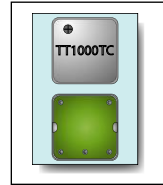


# TT-VT1000TC TCXO/VCTCXO

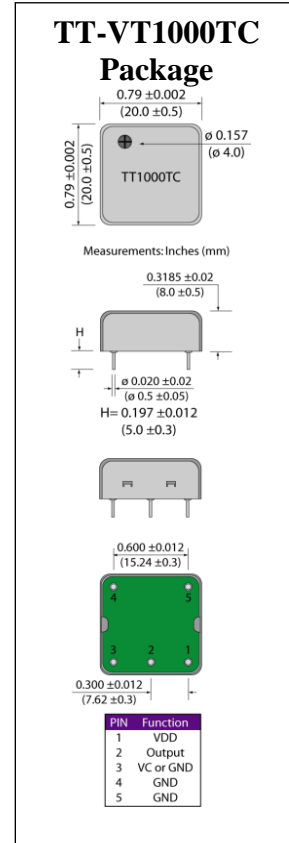


**FEATURES:**

- Low Cost
- Thru-Hole Metal Can

CMOS and Clipped Sine  
20.0 x 20.0 x 8.0 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



**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



**Example Part Number:** VT1000TC-A-18-A-27-24M576

VT1000TC	-	1	-	2	-	3	-	4	-	5	-	6
		<b>Stability</b>		<b>Waveform</b>		<b>Voltage</b>		<b>Pull Range</b>		<b>Temp. Range</b>		<b>Frequency</b>
		A = ±1.5		S = Clipped Sine		50 = 5.0 V		A = ±10		16 = -10 to 60°C		Frequency in
		B = ±2.0		C = CMOS		3.3 = 3.3 V		B = ±8		27 = -20 to 70°C		MHz i.e.
		C = ±2.5						C = ±5		48 = -40 to 85°C		24M576 use
		D = ±5.0						T = TCXO				<b>M</b> for decimal point