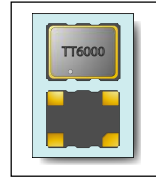


# TT-VT6000 TCXO/VCTCXO

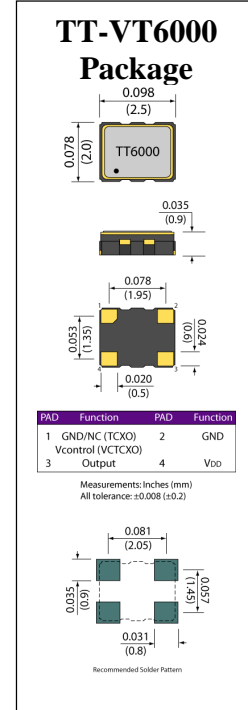


**FEATURES:**  
Clipped Sine  
Ceramic Package

**Low Voltage**  
**2.5 x 2.0 x 0.9 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	-	±1.0
Current Consumption			
10.00 to 26.00 MHz	mA	-	2.0
>26.00 to 52.00 MHz	mA	-	2.5
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	±12
VC Input Impedance (VCTCXO)	KOhms	500	-
Start-up Time	mSec	-	2
Phase Noise			
	@ 100 Hz	dBc/Hz	-115 typical
	@ 1 kHz	dBc/Hz	-135 typical
	@ 10 kHz	dBc/Hz	-148 typical



### 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



**Example Part Number:** VT6000-A-18-A-27-24M576

VT6000	-	[ ]	-	[ ]	-	[ ]	-	[ ]	-	[ ]
		1		2		3		4		5
		<b>Stability</b>		<b>Voltage</b>		<b>Pull Range</b>		<b>Temp. Range</b>		<b>Frequency</b>
		A = ±2.5		30= 3.0 V		A = ±12		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				