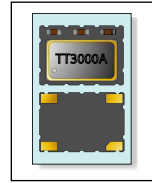


# TT-VT3000A TCXO/VCTCXO

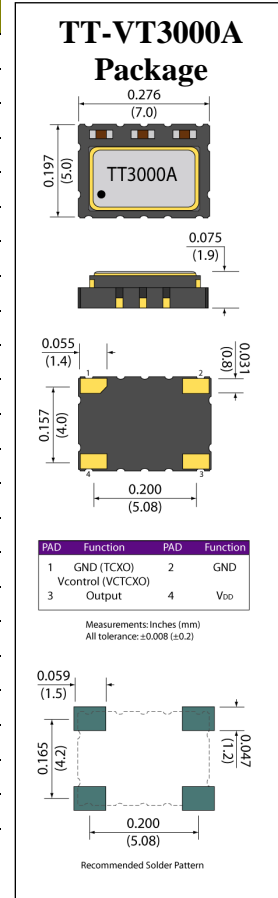


**FEATURES:**

**Tight Stability  
Ceramic Package**

**CMOS and Clipped Sine  
7.0 x 5.0 x 2.0 mm**

Parameter	Unit	Min.	Max.
Frequency Range	MHz	5	40
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
Storage Temperature Range	°C	-55	+125
Current Consumption (CMOS)	mA	-	6
Current Consumption (Clipped Sine)	mA	-	3.5
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
Control Voltage Range (VCTCXO)	V		See Table
Frequency Deviation (VCTCXO)	ppm	±5	±10
VC Input Impedance (VCTCXO)	KOhms	100	-
Start-up Time	mSec	-	2
Phase Noise			
	@ 1 kHz		-145 typical



**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	±0.1, ±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

**Example Part Number: VT3000A-A-S-18-A-27-24M576**

VT3000A	-	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 = ±0.5	S = Clipped Sine	50 = 5.0 V	A = ±10	16 = -10 to 60°C	Frequency in
		B = ±0.28	C = CMOS	3.3 = 3.3 V	B = ±8	27 = -20 to 70°C	MHz i.e.
		C = ±0.2		18 = 1.8 V	C = ±5	48 = -40 to 85°C	24M576 use
		D = ±0.1			T = TCXO		M for decimal
		E = ±0.05					point