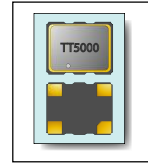


TT-VT5000 Crystal Oscillator

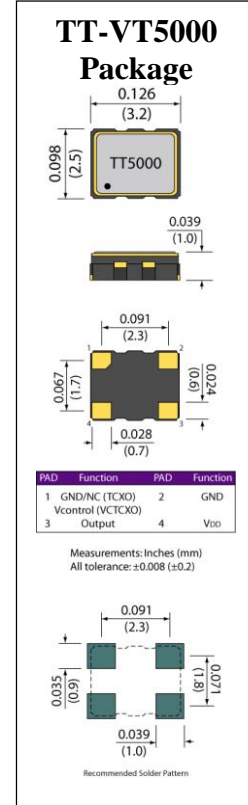


FEATURES:
Clipped Sine
Ceramic Package

Low Current Draw
3.2 x 2.5 x 1.0 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

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Example Part Number: VT5000-A-18-A-27-24M576

VT5000	1	2	3	4	5
Stability	A = ±2.5	B = ±2.0	C = ±1.5	D = ±1.0	E = ±0.5
Voltage	30= 3.0 V	25= 2.5V	18= 1.8V		
Pull Range	A = ±12	B = ±10	C = ±8	D = ±5	T = TCXO
Temp. Range	16= -10 to 60°C	27= -20 to 70°C	48= -40 to 85°C		
Frequency	Frequency in MHz i.e. 24M576 use M for decimal point				