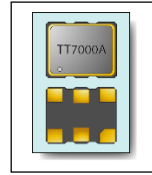


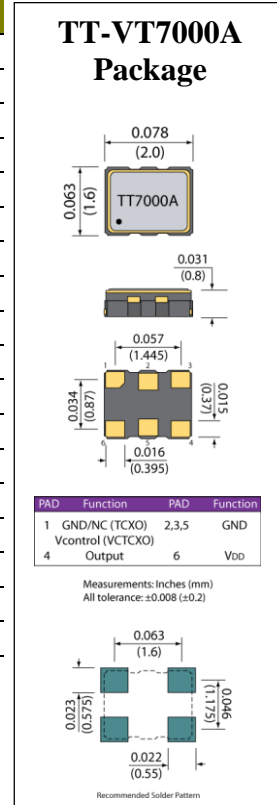
TT-VT7000A Crystal Oscillator



FEATURES:
Clipped Sine
Ceramic Package

Low Voltage
2.0 x 1.6 x 0.8 mm

Parameter	Unit	Min.	Max.
Frequency Range	MHz	13	52
Frequency Tolerance at 25°C	ppm	-	±0.5
Frequency Stability			
Vs. Supply Voltage (±5%) change	ppm	-	±0.5
Vs. Load (±10%) change	ppm	-	±0.2
Vs. Aging	ppm	-	±1.0
Current Consumption	mA	-	2.0
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		10 KOhms/10 pF	
Control Voltage Range (VCTCXO)	V	See Table	
Frequency Deviation (VCTCXO)	ppm	±5	±15
VC Input Impedance (VCTCXO)	KOhms	500	-
Start-up Time	mSec	-	2
Phase Noise			
	@ 1 kHz	dBc/Hz -135 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: VT7000A-A-18-A-27-24M576

VT7000A	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>
		1		2		3		4		5
		Stability		Voltage		Pull Range		Temp. Range		Frequency
		A = ±2.5		30= 3.0 V		A = ±15		16= -10 to 60°C		Frequency in MHz
		B = ±2.0		25= 2.5 V		B = ±10		27= -20 to 70°C		i.e. 24M576
		C = ±1.5		18= 1.8 V		C = ±8		48= -40 to 85°C		use M for decimal
		D = ±1.0				D = ±5				point
		E = ±0.5				T = TCXO				