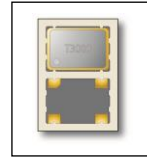


# T3000 Crystal Oscillator



## FEATURES:

Tri-state Enable

7.0 x 5.0 x 1.8 mm

Parameter	Unit	Min.	Max.
Frequency Range	MHz	1.000	250.000
Frequency Stability		See Table	
Storage Temperature Range	°C	-55	+125
Supply Voltage	V	1.8, 2.8, 3.3, 5.0 ±10%	
Current Consumption		See Table	
Output Waveform		CMOS	
Output Load	pF	-	15
Output Voltage Logic High (VOH)	V	90% of VDD	
Output Voltage Logic Low (VOL)	V	-	10% of VDD
Transition Time (Rise and Fall)			
	1.000 to 34.999 MHz	nSec	10
	25.000 to 60.000 MHz	nSec	8
	60.001 to 99.999 MHz	nSec	5
	100.000 to 200.000 MHz	nSec	2.5
Duty Cycle		45/55%	
Tristate Enable Output		No Connection Pin 1	
Enable Output	V	≥2.0	
Disable Output	V	≤0.8	
Start-up Time	mSec	-	10
Period Jitter: pk-pk	pSec	-	±100
Period Jitter: One Sigma	pSec	-	±25
Period Jitter (12 kHz to 20 MHz)	pSec	-	1

Frequency Stability is inclusive of calibration at 25°C, operating temperature range, input voltage variation, load variation, shock, vibration, and aging.

Maximum Frequency for 1.8 V is 200 MHz; 2.5 and 3.3 V is 250 MHz; 5.0 V is 125.00 MHz.

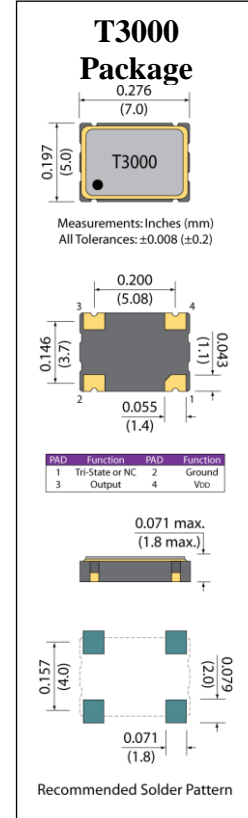
## Current Consumption

Frequency Range	Unit	5.0 V	3.3 V	2.5 V	1.8 V
1.000 to 25.00 MHz	mA	15	10	6	4
>25.000 to 40.000 MHz	mA	20	15	8	6
>40.000 to 60.000 MHz	mA	30	20	12	10
>60.000 to 80.000 MHz	mA	35	25	18	15
>80.000 to 106.250 MHz	mA	45	30	25	20
>106.250 to 125.000 MHz	mA	50	35	30	25
>125.000 to 160.000 MHz	mA	-	40	35	30
>160.000 to 250.000 MHz	mA	-	50	40	-

Maximum specified limit

## Frequency Stability

Temperature	Stability (ppm)
-10 to +60°C	±20, ±25, ±30, ±50
-20 to +70°C	±25, ±30, ±50
-40 to +85°C	±25, ±30, ±50



## 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: T3000-18-A-27-24M576

T3000	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>
		1		2		3		4
		<b>Voltage</b>		<b>Stability</b>		<b>Temp. Range</b>		<b>Frequency</b>
		50 = 5.0 V		A = ±50		16 = -10 to 60°C		Frequency in MHz
		33 = 3.3 V		B = ±30		27 = -20 to 70°C		i.e. 24M576
		28 = 2.8 V		C = ±25		48 = -40 to 85°C		use M for decimal point
		18 = 1.8 V		D = ±20				

Note: Consult factory for additional potential options not listed.