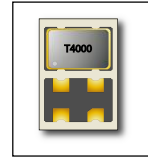


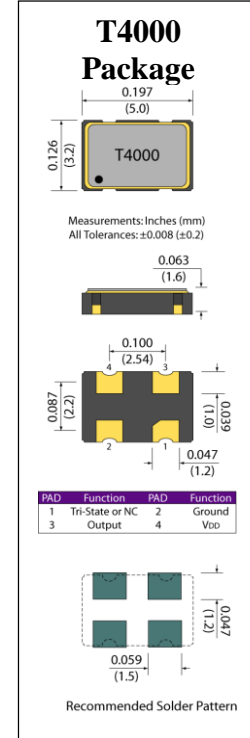
# T4000 Crystal Oscillator



**FEATURES:**  
**High Frequency**  
**Ceramic Package**

**Tight Stability**  
**5.0 x 3.2 x 1.6 mm**

Parameter	Unit	Min.	Max.
Frequency Range	MHz	1.000	160.000
Frequency Stability	ppm	See Table	
Storage Temperature Range	°C	-55	+125
Voltage	V	1.8, 2.8, 3.3, 5.0 ±10%	
Current Consumption	mA	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)	nSec	-	5
Duty Cycle		45/55% standard	
Tri-state	Enable	No Connection Pin 1	
	Enable	V	0.7 of VDD
	Disable	V	0.3 of VDD
Start-up Time	mSec	-	5
Standby Current	µA	-	10
RMS Phase 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.

### Current Consumption

Frequency Range	Unit	3.3V	2.8V	1.8 V
1.000 to 35.000 MHz	mA	16	10	8
>35.000 to 60.000 MHz	mA	25	20	15
>60.000 to 100.000 MHz	mA	40	30	25
>100.00 to 106.250 MHz	mA	50	40	35
>106.250 to 160.000 MHz	mA	50	40	35

Maximum specified limit

### Frequency Stability

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

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**Example Part Number:** T4000-18-A-27-24M576

<b>T4000</b>	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>
		<b>1</b>		<b>2</b>		<b>3</b>		<b>4</b>
		<b>Voltage</b>		<b>Stability</b>		<b>Temp. Range</b>		<b>Frequency</b>
		33= 3.3 V		A= ±50		16= -10 to +60°C		Frequency in MHz
		28= 2.8V		B= ±30		27= -20 to +70°C		i.e. 24M576
		18= 1.8 V		C= ±25		48= -40 to +85°C		use M for decimal point
				D= ±20				

Note: Consult factory for additional potential options not listed.