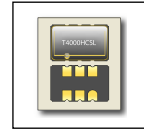


# T4000HCSL Crystal Oscillator



**FEATURES:**

**High Frequency  
Ceramic Package**

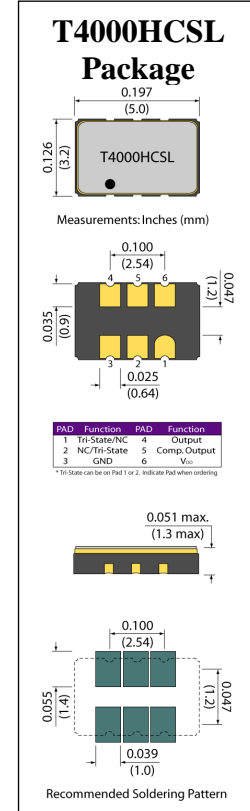
**Tight Stability  
5.0 x 3.2 x 1.3 mm**

Parameter	Unit	Min.	Max.
Frequency Range	MHz	100.000	125.000
Frequency Stability	ppm	See Table	
Storage Temperature Range	°C	-55	+125
Voltage	V	3.3 ±5%	
Current Consumption	mA	-	88
Output Waveform		HCSL	
Output Load	Ohms	-	50
Output Voltage Logic High (VOH)	V	0.05	-
Output Voltage Logic Low (VOL)	V	-	0.6
Transition Time (Rise and Fall)	pSec	-	700
Duty Cycle		45/55% standard	
Tri-state	Enable	No Connection PIN 1	
	Enable	V	0.7 of VDD
	Disable	V	- 0.3 of VDD
Aging	ppm	±10 ppm / 10 year max.	
Start-up Time	mSec	-	10
RMS Phase Jitter Integrated (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.

**Frequency Stability**

Temperature	Stability (ppm)
-10 to +60°C	±25, ±30, ±50, ±100
-20 to +70°C	±25, ±30, ±50, ±100
-40 to +85°C	±50, ±100



**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:** T4000HCSL-18-A-27-24M576

T4000HCSL	1	2	3	4
	Voltage	Stability	Temp. Range	Frequency
	33= 3.3 V	A= ±100	16= -10 to +60°C	Frequency in MHz
	30= 3.0 V	B= ±50	27= -20 to +70°C	i.e. 24M576
	25= 2.5 V	C= ±30	48= -40 to +85°C	use M for decimal point
		D= ±25		

Note: Consult factory for additional potential options not listed.