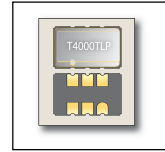


T4000TLP

Crystal Oscillator



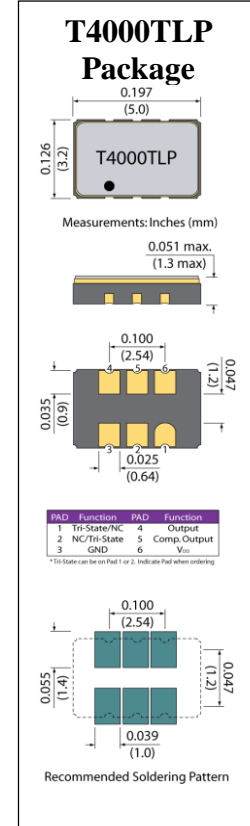
FEATURES:

1.5 GHz Available
Ceramic Package

Quick Delivery
5.0 x 3.2 x 1.3 mm

Parameter	Unit	Min.	Max.
Frequency Range	MHz	10.000	1500.000
Frequency Stability	ppm	See Table	
Storage Temperature Range	°C	-55	+125
Voltage	V	2.5, 3.3 ±5%	
Current Consumption	mA	-	50
Output Waveform		LVPECL	
Output Voltage Logic High (V _{OH}) (3.3 V)	V	2.275	-
Output Voltage Logic Low (V _{OL}) (3.3 V)	V	-	1.68
Output Voltage Logic High (V _{OH}) (2.8 V)	V	1.475	-
Output Voltage Logic Low (V _{OL}) (2.8 V)	V	-	0.85
Transition Time (Rise and Fall)	nSec	-	1.0
Tri-state		Pad 1 or Pad 2	
Enable	V	0.7 of V _{DD}	-
Disable	V	-	0.3 of V _{DD}
Aging (@25°C 1 st Year)	pSec	-	±3.0
Start-up Time	mSec	-	10
Phase Jitter: (Integrated 12 kHz-20 MHz)		0.6 (Typ.); 1.0 (Max.)	
Phase Noise @ 156.25 MHz			
@ 100 Hz	dBc/Hz	-	-85
@ 1 kHz	dBc/Hz	-	-105
@ 10 kHz	dBc/Hz	-	-1115

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
-20 to +70°C	±25, ±30, ±50
-40 to +85°C	±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: T4000TLP-18-A-27-24M576

T4000TLP	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>
		1		2		3		4
		Voltage		Stability		Temp. Range		Frequency
		33= 3.3 V		A= ±50		16= -10 to +60°C		Frequency in MHz
		28= 2.5 V		B= ±30		27= -20 to +70°C		i.e. 24M576
				C= ±25		48= -40 to +85°C		use M for decimal point

Note: Consult factory for additional options not listed.