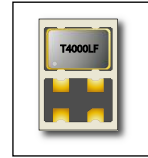


T4000LF

Crystal Oscillator



FEATURES:

32.768 kHz

Ceramic Package

Tight Stability

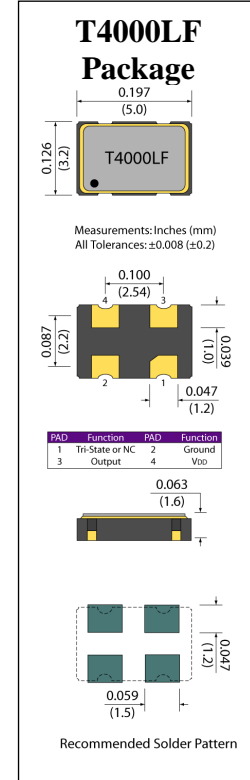
5.0 x 3.2 x 1.6 mm

Parameter	Unit	Min.	Max.
Frequency Range	kHz	32.768	
Frequency Stability	ppm	See Table	
Storage Temperature Range	°C	-55	+125
Voltage	V	1.8, 2.8, 3.3 ±10%	
Current Consumption	mA	-	25
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	-	10
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 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	±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: T4000LF-18-A-27-24M576

T4000LF	1	2	3	4
	Voltage	Stability	Temp. Range	Frequency
	33= 3.3 V	A= ±50	16= -10 to +60°C	Frequency in kHz
	28= 2.8 V	B= ±30	27= -20 to +70°C	i.e. 32K768
		C= ±25	48= -40 to +85°C	use K for decimal point
		D= ±20		

Note: Consult factory for additional potential options not listed.