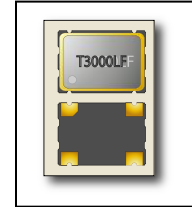


T3000LF

Crystal Oscillator



FEATURES:
Tri-state Enable
Ceramic Package

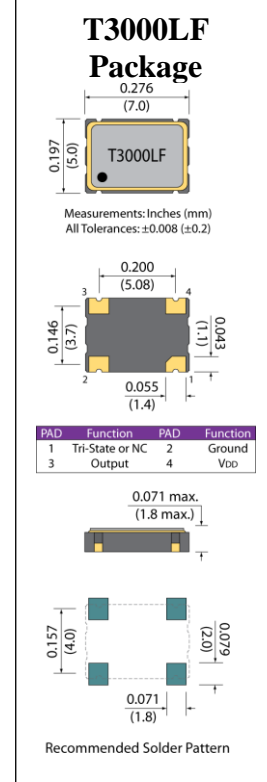
32.768 kHz
7.0 x 5.0 x 1.8 mm

Parameter	Unit	Min.	Max.
Frequency Range	kHz	32.768	
Frequency Stability	ppm	See Table	
Aging 1 st Year	ppm	-	±3
Storage Temperature Range	°C	-55	+125
Supply Voltage	V	1.8, 2.8, 3.3 ±5%	
Current Consumption	mA	-	3
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 Output	No Connection Pin 1	
	Enable Output	V	0.7 of VDD
	Disable Output	V	0.3 of VDD
Start-up Time	mSec	-	5
Standby Current	µA	-	10
Period Jitter: Absolute	pSec	-	40
RMS 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.

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: T3000LF-18-A-27-24M576

T3000LF	-	<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 kHz
		28= 2.8V		B= ±30		27= -20 to +70°C		i.e. 32K768
		18= 1.8 V		C= ±25		48= -40 to +85°C		use K for decimal point
				D= ±20				

Note: Consult factory for additional potential options not listed.