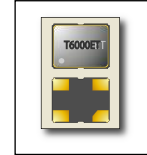


# T6000ET

## Crystal Oscillator



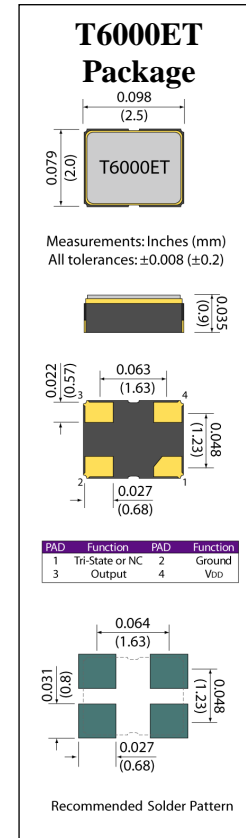
### FEATURES:

**Extended Temperature Range**  
**Ceramic Package**

**Low Jitter**  
**2.5 x 2.0 x 0.9 mm**

Parameter	Unit	Min.	Max.
Frequency Range	MHz	1.250	100.000
Frequency Stability	ppm	See Table	
Storage Temperature Range	°C	-55	+125
Aging (1st year)	ppm	-	±3.0
Supply Voltage	V	1.8, 2.5, 3.3 ±10%	
Current Consumption	mA	See Table	
Output Waveform		CMOS	
Output Load	pF	-	15
Output Voltage Logic High (VOH)	V	90% of V <sub>DD</sub>	
Output Voltage Logic Low (VOL)	V	-	10% of V <sub>DD</sub>
Transition Time (Rise and Fall)		See Table	
Duty Cycle		45/55% standard	
Tri-state	Enable	No Connection Pin 1	
	Enable	V	70% of V <sub>DD</sub>
	Disable	V	30% of V <sub>DD</sub>
Start-up Time	mSec	-	2
Absolute Period Jitter	pSec	-	40
Period 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.



### Transition Time (Rise and Fall)

Frequency Range	Unit	3.3 V	2.5 V	1.8 V
1.000 to 10.000 MHz	nSec	10	8	5
>10.000 to 200.000 MHz	nSec	15	10	4

### Frequency Stability

Temperature	Stability (ppm)
-40 to +105°C	±30, ±50
-40 to +125°C	±40, ±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:** T5000ET-18-A-405-24M576

T5000ET	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>
		1		2		3		4
		<b>Voltage</b>		<b>Stability</b>		<b>Temp. Range</b>		<b>Frequency</b>
		33= 3.3 V		A= ±50		405= -40 to 105°C		Frequency in MHz
		25= 2.5 V		B= ±40		425= -40 to 125°C		i.e. 24M576
		18= 1.8 V						use M for decimal point

Note: Consult factory for additional potential options not listed