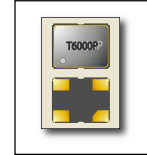


# T6000P

## Crystal Oscillator



**FEATURES:**  
**Programmable**  
**Ceramic Package**

**Quick Delivery**  
**2.5 x 2.0 x 1.0 mm**

Parameter	Unit	Min.	Max.
Frequency Range	MHz	1.000	200.000
Frequency Stability	ppm	See Table	
Storage Temperature Range	°C	-55	+125
Aging (per year)	ppm	±3.0ppm	
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
Standby Current	µA	-	15
Period Jitter Integrated		-	1
	1.00MHz to 40.00MHz	pSec	40
	Over 40.00MHz	pSec	200

Maximum frequency for 3.3 V is 200.00 MHz; Maximum frequency for 2.5 V is 166.00 MHz;  
 Frequency Range for 1.8 V is 11.00 to 133.00 MHz.  
 Frequency Stability is inclusive of Operating Temperature Range, Supply Voltage, Aging, Current and Load.

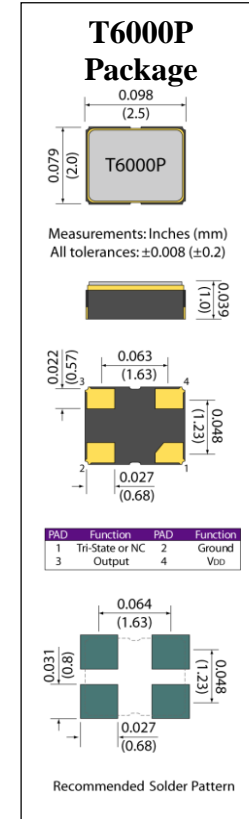
### Current Consumption

Frequency Range	Unit	3.3V	2.5 V	1.8V
1.000 to 30.000 MHz	mA	10	8	6
>30.000 to 75.000 MHz	mA	15	10	8
>75.000 to 133.000 MHz	mA	20	15	12
>133.000 to 166.000 MHz	mA	22	15	-
>166.000 to 200.000 MHz	mA	25	-	-

Maximum specified limit

### 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



### Transition Time (Rise and Fall)

Frequency Range	Unit	3.3V	2.5 V	1.8V
1.000 to 10.000 MHz	nSec	3	4	5
>10.000 to 200.000 MHz	nSec	2	3	4

### 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: T6000P-18-A-27-24M576

<b>T6000P</b>	-	<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>
		18= 1.8 V		A= ±50		16= -10 to +60°C		Frequency in MHz
		25= 2.5 V		B= ±30		27= -20 to +70°C		i.e. 24M576
		33= 3.3 V		C= ±25		48= -40 to +85°C		use M for decimal point
				D= ±20				

Note: Consult factory for additional potential options not listed.