

K1601T Series

14 DIP, 5.0 Volt, CMOS/TTL, TCXO



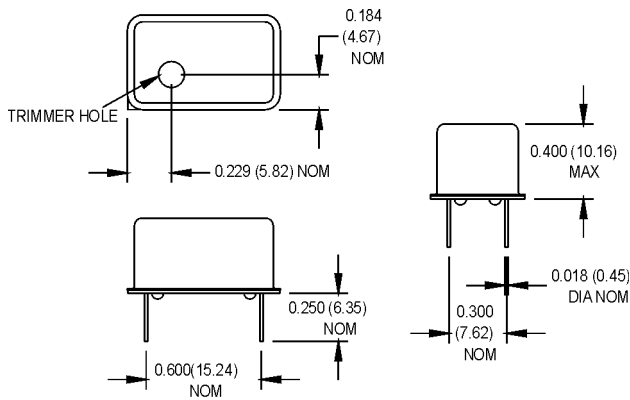
- Former **Champion** Product
TECHNOLOGIES, INC.
- Phase-Locked Loops, SONET, Reference Signal, Signal Tracking, ATM

Ordering Information

00.0000
MHz

K1601T -R

Product Series ———|
 RoHS Compliance ———|
 Blank: non-RoHS compliant part
 -R: RoHS compliant part
 Frequency (customer specified) ———|



All dimensions in inches (mm).

Pin Connections

PIN	FUNCTION
1	N/C
7	Ground/Case Ground
8	Output
14	+Vdd

PARAMETER	Symbol	Min.	Typ.	Max.	Unit	Condition/Notes
Frequency Range	F	2		30	MHz	
Frequency Stability	$\Delta F/F$					
Overall		Inclusive of Calibration, Temperature, Voltage, Load, and Aging				
25°C Calibration		-1.5		+1.5	ppm	
Over Operating Temperature		-1.0		+1.0	ppm	
Aging (10 Years)		-2.0		+2.0	ppm	
Frequency Adjustment		-5.0		+5.0	ppm	
Operating Temperature	T _A	0		+55	°C	
Storage Temperature	T _S	-40		+85	°C	
Input Voltage	V _{dd}	4.75	5.0	5.25	V	
Input Current	I _{dd}			<20	mA	
Symmetry (Duty Cycle)		45		55	%	<14 MHz
		50		60	%	≥14 MHz
Rise Time	T _r		3.5	9.0	ns	
Fall Time	T _f		2.0	8.0	ns	
Logic "1" Level	V _{oh}	4.5			V	
Logic "0" Level	V _{ol}			0.5	V	
Start up Time				<20	ms	
Temperature Cycle	MIL-STD-883, Method 1010, Condition B					-55°C to +125°C; Air-to-Air 100 cycles; 10 min. dwell
Mechanical Shock	MIL-STD-883, Method 2002, Condition B					1500 g's
Vibration	MIL-STD-883, method 2007, Condition B					20-2000 Hz; 0.06 inch; 15 g's; 3 planes
Humidity Steady State	MIL-STD-202, Method 103					40°C, 90%-95% R.H.; 56 days
Thermal Shock	MIL-STD-883, Method 1011.7, Condition B					100°C to 0°C; Water-to-Water; 15 cycles
Electrostatic Discharge	MIL-STD-883, Method 3015, Class II					2 KV to 4 KV Threshold
Solderability	MIL-STD-883, Method 2022.2					Solder dip; Meniscograph Criteria
Hermeticity	MIL-STD-883, Method 1014.8, Condition A1					Mass pectro. 2 x 10 ⁻⁸ atoms. CC/sec He
Lead Integrity	MIL-STD-883, Method 2004.5, Condition A, B1					Lead tension & bend stress
Marking Permanence	MIL-STD-883, Method 2015.8					Resistance to solvents
Life Test	MIL-STD-883, Method 1005.6					125°C, powered, 1000 hours minimum

MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.

Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.

MtronPTI Lead Free Solder Profile

