K1601T Series
14 DIP, 5.0 Volt, CMOS/TTL, TCXO

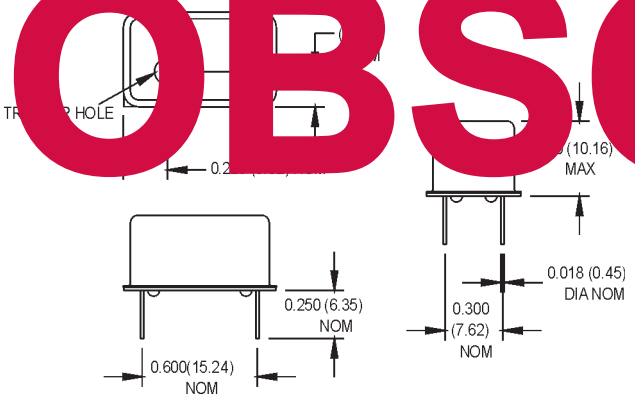
- Former Champion Technologies, Inc. Product
- Phase-Locked Loops, SONET, Reference Signal, Signal Tracking, ATM

Ordering Information

K1601T -R 00.0000 MHz

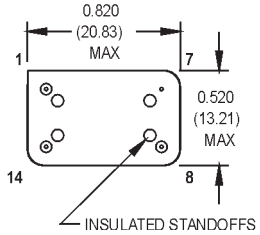
- Product Series
- RoHS Compliance
  - Blank: non-RoHS compliant part
  - -R: RoHS compliant part
- Frequency (customer specified)

OBSOLETE



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

All dimensions in inches (mm).



	PARAMETER	Symbol	Min.	Typ.	Max.	Unit	Condition/Notes
Electrical Specification	Frequency Range	F	2		30	MHz	
	Frequency Stability	ΔF/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	Vdd	4.75	5.0	5.25	V	
	Input Current	Idd			<20	mA	
	Symmetry (Duty Cycle)		45 50		55 60	% %	<14 MHz ≥14 MHz
	Rise Time	Tr		3.5	9.0	ns	
	Fall Time	Tf		2.0	8.0	ns	
	Logic "1" Level	Voh	4.5			V	
	Logic "0" Level	Vol			0.5	V	
	Start up Time				<20	ms	
Environmental Specification	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
	Soldering Conditions	Maximum wave soldering conditions: +260°C for 10 secs.					
	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