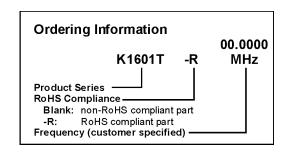
K1601T Series 14 DIP, 5.0 Volt, CMOS/TTL, TCXO

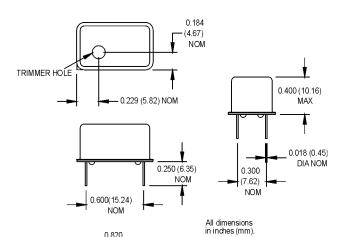






- Former Champion Product
- Phase-Locked Loops, SONET, Reference Signal, Signal Tracking, ATM





Pin Connections

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

₁ †	0.820 ≪ (20.83 MA)	s) —	7
	_© ○	ં	0.520 (13.21) MAX
14	INSI	JI ATFD S	8 TANDOFFS

PARAMETER	Symbol	Min.	Тур.	Max.	Unit	Condition/Notes
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	TA	0		+55	°C	
Aging (10 Years) Frequency Adjustment Operating Temperature Storage Temperature	Ts	-40		+85	°C	
	Vdd	4.75	5.0	5.25	٧	
Input Current	ldd			<20	mA	
Input Voltage Input Current Symmetry (Duty Cycle)		45 50		55 60	%	<14 MHz ≥14 MHz
Rise Time	Tr	+	3.5	9.0	ns	
Fall Time	Tf	1	2.0	8.0	ns	
Logic "1" Level	Voh	4.5			V	
Logic "0" Level	Vol			0.5	V	
Start up Time				<20	ms	
Temperature Cycle	MIL-STD-8	383, Met	hod 1010,	Condition	-55°C to +125°C; Air-to-Air 100 cycles; 10 min. dwell	
Mechanical Shock Vibration Humidity Steady State	MIL-STD-8	383, Met	hod 2002,	Condition	1500 g's	
Vibration	MIL-STD-8	383, met	hod 2007,	Condition	20-2000 Hz; 0.06 inch; 15 g's; 3 planes	
Humidity Steady State	MIL-STD-2	202, Met	hod 103		40°C, 90%-95% R.H.; 56 days	
Thermal Shock	MIL-STD-8	383, Met	hod 1011.	7, Conditio	100°C to 0°C; Water-to-Water; 15 cycle	
Electrostatic Discharge	MIL-STD-					2 KV to 4 KV Threshold
Solderability	MIL-STD-	383, Met	hod 2022.	2	Solder dip; Meniscograph Criteria	
Hermeticity	MIL-STD-	383, Met	hod 1014.	8, Conditio	Mass pectro. 2 x 10-8 atoms. CC/sec H	
Electrostatic Discharge Solderability Hermeticity Lead Integrity	MIL-STD-883, Method 2004.5, Condition A, B1					Lead tension & bend stress

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.

Marking Permanence

MIL-STD-883, Method 2015.8

MIL-STD-883, Method 1005.6

Resistance to solvents

125°C, powered, 1000 hours minimum