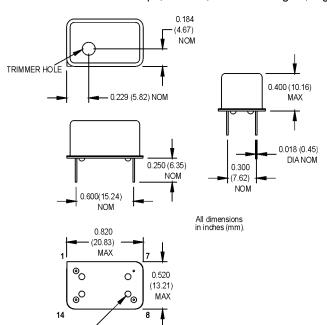
K1602T Series 14 DIP, 5.0 Volt, CMOS/TTL, TCXO







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



Ordering Information 00.0000 K1602T -R MHz Product Series RoHS Compliance Blank: non-RoHS compliant part RoHS compliant part Frequency (customer specified)

Pin Connections

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

	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes
	Frequency Range	F	2		30	MHz	
	Operating Temperature	TA	-40		+85	∘C	
	Storage Temperature	Ts	-40		+85	°C	
	Initial Calibration		-1.5		+1.5	ppm	See Note 1
ر س	Stability vs. Temperature		-2.0		+2.0	ppm	
	Aging (10 Year)		-2		+2	ppm	
5	Manual Adjusted Tuning Range		-5		+5	ppm	
ä	Input Voltage	Vdd	4.75	5.0	5.25	V	
I≝	Input Current	ldd			20	mA	
Ιĕ	Output Type						HCMOS/TTL
S			5 TTL or 15 pF HCMOS			See Note 2	
g	Symmetry (Duty Cycle)						See Note 3
Ë	< 14 MHz		45		55	%	
Electrical	≥ 14 MHz		40		60	%	
1"	Logic "1" Level	Voh	4.5			V	
	Logic "0" Level	Vol			0.5	V	
	Rise Time	Tr		3.5	9.0	ns	
	Fall Time	Tf		2.0	8.0	ns	
	Start Up Time				20	ms	
	Phase Noise (typical)	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	Offset from carrier
╙	@ 20 MHz	-80	-108	-125	-132	-155	dBc/Hz
<u>_</u>	Mechanical Shock Per MIL-STD-202, Method 213, Condition C (100 g's, 6 mS duration, ½ sinew						
ental	Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)					
ΙĔ	Hermeticity	Per MIL-STD-202, Method 112, (1x10-8 atm. cc/s of Helium)					
].⊒	Thermal Cycle						
Ë	Solderability	Per EIAJ-STD-002					
I۳	Soldering Conditions +240°C max. for 10 secs.						

- 1. Initial Calibration guaranteed at time of shipment.
- 2. TTL Load see load circuit diagram #1. HCMOS load see load circuit diagram #2.
- 3. Symmetry is measured at 1.4 V with TTL load, and at 50% Vdd with HCMOS load.

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.