K1602TE Series 14 pin DIP, 5.0 Volt, CMOS/TTL, TCVCXO

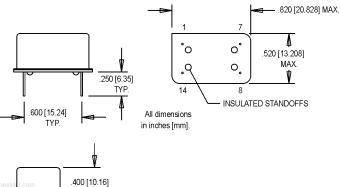


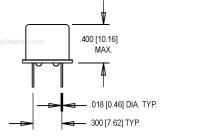




- Former Champion Product
- Phase-Locked Loops Clocking "Sync" to NTSC Video Standards, Reference Signal, Signal Tracking

Ordering Information 00.0000									
K1602TE									
Product Series Pullability Blank: ±28 ppm min.									
W: ± 40 ppm min.									
RoHS Compliance Blank: non-RoHS compliant part -R: RoHS compliant part Frequency (customer specified) (Consult factory for "TEW" option)									





Pin Connections

PIN	FUNCTION			
1	Control Voltage			
7	Ground/Case Gnd			
8	Output			
14	+Vdd			

	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes
	Frequency Range	F	2.0 to 35.0, 38.88 to 40.0			MHz	
	Operating Temperature	ΤΑ	-40		+85	°C	
	Storage Temperature	Ts	-40		+85	°C	
	Frequency Stability	∆ F/F			±7.0	ppm	See Note 1
	Aging (10 Year)		-2		+2	ppm	
	Pullability/APR		(See Ordering Information)				
	Control Voltage	Vc	0.5	2.5	4.5	V	Positive Monotonic Slope
atio	Tuning Range		±28 ("TEW	" model ± 4	40)	ppm	
ifica	Modulation Bandwidth	fm	20			kHz	±3dB
bec	Input Impedance	Zin	50k			Ω	@ 10 kHz
al S	Input Voltage	Vdd	4.75	5.0	5.25	V	
Lici	Input Current	ldd			20	mA	
Electrical Specifications	Output Type						HCMOS/TTL
	Load		5 TTL or 15	5 pF HCM	os		See Note 2
	Symmetry (Duty Cycle)						See Note 3
	< 14 MHz		45		55	%	
	≥14 MHz		40		60	%	
	Logic "1" Level	Voh	4.5			V	
	Logic "0" Level	Vol			0.5	V	
	Rise/Fall Time	Tr/Tf		3.5	9.0	ns	
	Start up Time				20	ms	
	Phase Noise (Typical)	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	Offset from carrier
		-70	-95	-120	-140	-150	dBc/Hz

1. Inclusive of calibration, temperature, voltage, load and aging.

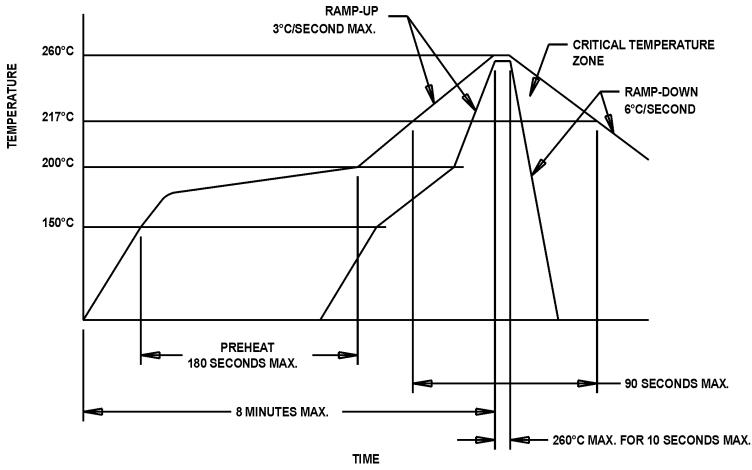
TTL load - see load circuit diagram #1. HCMOS load - see load circuit diagram #2.
Symmetry is measured at 1.4 V with TTL load, and at 50% Vdd with HCMOS load.

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.

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

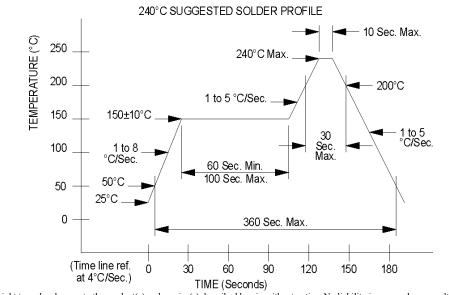
Mtron PTI[®]

MtronPTI Lead Free Solder Profile



MtronPTI Non-RoHS Profile

240°C All the remaining surface mount, both crystal and oscillator.



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