K1601TE Series

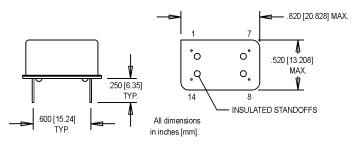
14 pin DIP, 5.0 Volt, CMOS/TTL, TCVCXO

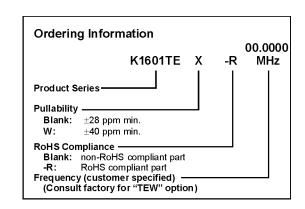


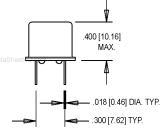




- Former Champion Product
- Phase-Locked-Loops, Clocking "Sync" to NTSC Video Standards, Reference Signal, Signal Tracking







	<u> </u>
	.400 [10.16] MAX.
aSheet III. 1999	<u> </u>
-	.018 [0.46] DIA. TYP.
_	.300 [7.62] TYP.

Pin Connections

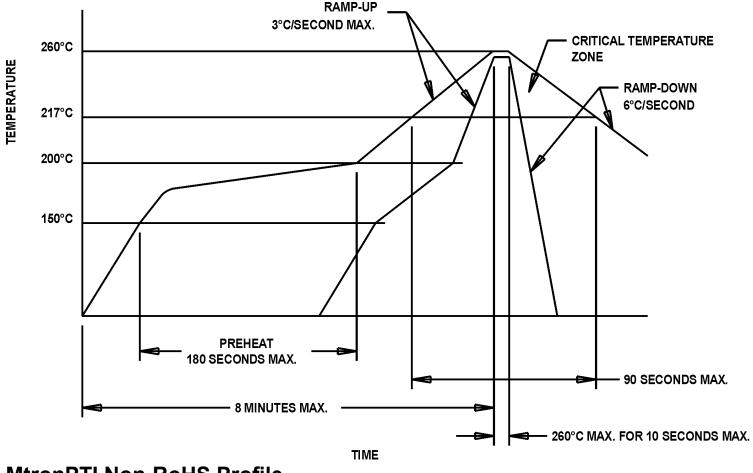
PIN	FUNCTION				
1	Control Voltage				
7	Ground/Case Gnd				
8	Output				
14	+Vdd				

П	PARAMETER	Symbol			Units			
	Frequency Range	F	2.0 to 35, 38.888, 40.000				MHz	
	Frequency Stability	ΔF/F						
	Overall		Inclusive of Calibration, Temperature, Voltage,					
1			Load, and Aging					
	25° Calibration		±3.0				ppm	
,	Aging 10 Years		±2.0				ppm	
	Over Operating Temperature		±1.0				ppm	
ΙË	Minimum Deviation		± 2.8 ("TEW" model ± 40)				ppm	
ecifications	Minimum Deviation Sensitivity		+14				ppm/V	
lij	Linearity		10				%	
l S	Modulation Bandwidth (±3dB) fm			>2	20		KHz	
ŭ	Nominal Control Voltage			2.			V	
cal	Control Voltage Range	Vc	0.5 to 4.5				V	
냹	Transfer Function			Pos	itive			
Electrical	Input Impedance			>50Ω @				
۳۱	Operating Temperature	T _A	0 to 55				°C	
	Storage Temperature	Ts	-40 to 85				°C	
	Input Voltage	Vdd	+5.0 ±5%				V	
	Input Current	ldd		<2	20	mA		
	Symmetry (Duty Cycle)		45/55 < 14 MHz; 40/60 ≥ 14 MHz				%	
	Start up Time		<20				ms	
	Phase Noise (Typical)	10 Hz	100 Hz	1KHz	10 KHz	100 KHz	dBc/Hz	
Ш		-70	-95	-120	-140	-150		
દ્ર	Temperature Cycle	MIL-STD-8	83, Method 1	010, Condition	on B	-55°C to +125°C; Air-to-Air; 100 cycles; 10 min. dwell		
ţį	Mechanical Shock	MIL-STD-8	83, Method 2	002, Condition	on B	1500 g's		
ig	Vibration	MIL-STD-8	83, method 2	007, Condition	on B	20-2000 Hz; 0.06 inch; 15 g's; 3 planes		
Specifications	Humidity Steady State	MIL-STD-2	02, Method 1	03		40°C, 90%-95% R.H.; 56 days		
ß	Thermal Shock	MIL-STD-8	83, Method 1	011.7, Condi	tion B	100°C to 0°C; Water-to-Water; 15 cycles		
亞	Electrostatic Discharge	MIL-STD-8	83, Method 3	015, Class II		2 KV to 4 KV Threshold		
Environmental	Solderability	MIL-STD-8	83, Method 2	022.2		Solder dip; Meniscograph Criteria		
۱ä	Hermeticity	MIL-STD-8	83, Method 1	014.8, Condi	tion A1	Mass pectro. 2 x 10 ⁻⁸ atoms. CC/sec He		
Į₹	Lead Integrity	MIL-STD-8	83, Method 2	004.5, Condi	tion A, B1	Lead tension & bend stress		
[뉴	Marking Permanence	MIL-STD-8	83, Method 2	015.8		Resistance	Resistance to solvents	
\square	Life Test	MIL-STD-8	83, Method 1	005.6		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.

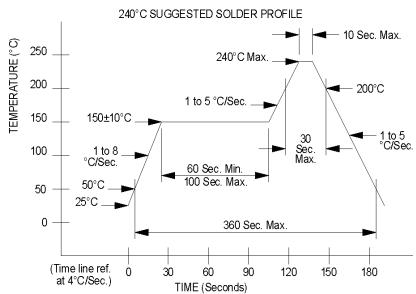






MtronPTI Non-RoHS Profile

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



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