K1601TE Series 14 pin DIP, 5.0 Volt, CMOS/TTL, TCVCXO



K1601TE X

00.0000

MHz

Ordering Information

±28 ppm min.

 \pm 40 ppm min.

Product Series Pullability Blank:

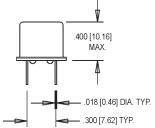




- Former Champion Product
- Phase-Locked-Loops, Clocking "Sync" to NTSC Video Standards, Reference Signal, Signal Tracking

in inches [mm].





	.400 [10.16] MAX.
T	
-	.018 [0.46] DIA. TYP.
-	.300 [7.62] TYP.

Pin Connections

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

	PARAMETER	Symbol				Units		
ı	Frequency Range	F	2.0 to 35, 38.888, 40.000			MHz		
	Frequency Stability	ΔF/F		· · · · · · · · · · · · · · · · · · ·				
ı	Overall		Inclusive of	Inclusive of Calibration, Temperature, Voltage,				
ı			Load, and Aging					
	25° Calibration		±3.0				ppm	
ı	Aging 10 Years		±2.0			ppm		
1,,	Over Operating Temperature		±1.0				ppm	
pecifications	Minimum Deviation		±2.8 ("TEW" model ±40)			ppm		
ati	Minimum Deviation Sensitivity	+14					ppm/V	
lë	Linearity			1	%			
l s	Modulation Bandwidth (±3dB) fm			>:	20	KHz		
S	Nominal Control Voltage				.5	V		
g	Control Voltage Range	Vc		0.5 t	V			
Electrical	Transfer Function	Positive						
lë.	Input Impedance		>50Ω @ 10 KHz					
۳	Operating Temperature	T _A	0 to 55				°C	
ı	Storage Temperature	Ts	-40 to 85				°C	
ı	Input Voltage	Vdd	+5.0 ±5%				V	
ı	Input Current	ldd	<20				mA	
	Symmetry (Duty Cycle)		45/55 < 14 MHz; 40/60 ≥ 14 MHz				%	
ı	Start up Time		<20				ms	
	Phase Noise (Typical)	10 Hz	100 Hz	1KHz	10 KHz	100 KHz	dBc/Hz	
L		-70	-95	-120	-140	-150		
ı	Temperature Cycle						-55°C to +125°C; Air-to-Air; 100 cycles; 10 min. dwell	
Su	Mechanical Shock					1500 g's		
ecifications	Vibration			2007, Condition	on B	20-2000 Hz; 0.06 inch; 15 g's; 3 planes		
Ę	Humidity Steady State		MIL-STD-202, Method 103				40°C, 90%-95% R.H.; 56 days	
eci	Thermal Shock			011.7, Cond		100°C to 0°C; Water-to-Water; 15 cycles		
S	Electrostatic Discharge			015, Class II		2 KV to 4 KV Threshold		
onmental	Solderability	MIL-STD-8	83, Method 2	2022.2		Solder dip; Meniscograph Criteria		
Jei Jei	Maximum Soldering Conditions	+260°C for	10 secs.					
Ī	Hermeticity	MIL-STD-883, Method 1014.8, Condition A1				Mass pectro. 2 x 10 ⁻⁸ atoms. CC/sec He		
Envir	Lead Integrity		MIL-STD-883, Method 2015.8				Lead tension & bend stress	
Ü	Marking Permanence						Resistance to solvents	
L	Life Test	MIL-STD-8					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.