K1601TE Series

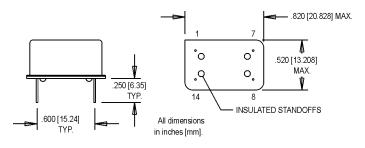
14 pin DIP, 5.0 Volt, CMOS/TTL, TCVCXO

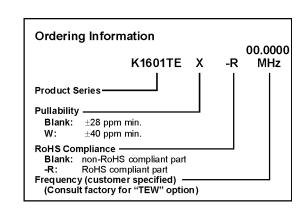


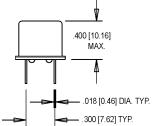




- Former Champion Product
- Phase-Locked-Loops, Clocking "Sync" to NTSC Video Standards, Reference Signal, Signal Tracking







		.400 [10.16] MAX.
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		.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		
1	Frequency Range	F	2.0 to 35, 38.888, 40.000				MHz	
1	Frequency Stability	ΔF/F						
1	Overall		Inclusive of Calibration, Temperature, Voltage,					
1			Load, and Aging					
1	25° Calibration		±3.0				ppm	
1	Aging 10 Years		±2.0				ppm	
١,,	Over Operating Temperature		±1.0				ppm	
۱ë	Minimum Deviation		±2.8 ("TEW" model ±40)				ppm	
ä	Minimum Deviation Sensitivity		+14				ppm/V	
l≝	Linearity		10				%	
Specifications	Modulation Bandwidth (±3dB) fm		>20				KHz	
ြတ္တ	Nominal Control Voltage	minal Control Voltage 2.5					V	
l <u>e</u>	Control Voltage Range	Vc	0.5 to 4.5				V	
ectrica	Transfer Function		Positive					
<u> ĕ</u>	Input Impedance		>50Ω @ 10 KHz					
۳	Operating Temperature T _A		0 to 55				°C	
	Storage Temperature	T _S	-40 to 85				°C	
1	Input Voltage Vdd		+5.0 ±5%				V	
1	Input Current Idd		<20				mA	
1	Symmetry (Duty Cycle)		45/55 < 14 MHz; 40/60 ≥ 14 MHz				%	
	Start up Time		<20				ms	
1	Phase Noise (Typical)	10 Hz	100 Hz	1KHz	10 KHz	100 KHz	dBc/Hz	
		-70	-95	-120	-140	-150		
2	Temperature Cycle	MIL-STD-8	MIL-STD-883, Method 1010, Condition B				-55°C to +125°C; Air-to-Air; 100 cycles; 10 min. dwell	
₽	Mechanical Shock	MIL-STD-8	-STD-883, Method 2002, Condition B				1500 g's	
Specifications	Vibration	MIL-STD-883, method 2007, Condition B				20-2000 Hz; 0.06 inch; 15 g's; 3 planes		
Ϊ́Ε	Humidity Steady State	MIL-STD-202, Method 103				40°C, 90%-95% R.H.; 56 days		
١ğ	Thermal Shock	MIL-STD-8	83, Method 1	011.7, Condi	tion B	100°C to 0°C; Water-to-Water; 15 cycles		
豆	Electrostatic Discharge	MIL-STD-883, Method 3015, Class II				2 KV to 4 KV Threshold		
15	Solderability	MIL-STD-8	83, Method 2	022.2		Solder dip; Meniscograph Criteria		
onmenta	Hermeticity	MIL-STD-8	83, Method 1	014.8, Condi	tion A1	Mass pectro. 2 x 10 ⁻⁸ atoms. CC/sec He		
I≒	Lead Integrity					Lead tension & bend stress		
핍	Marking Permanence	MIL-STD-8	83, Method 2	015.8		Resistance to solvents		
L	Life Test	Test MIL-STD-883, Method 1005.6					vered, 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.