

K1601TE Series

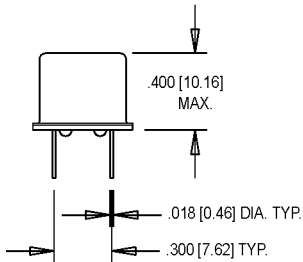
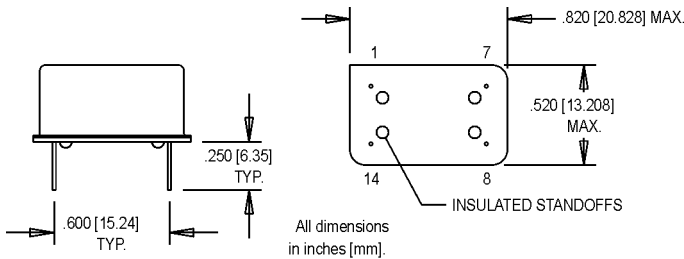
14 pin DIP, 5.0 Volt, CMOS/TTL, TCVCXO



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

Ordering Information

Product Series	K1601TE	X	-R	00.0000	MHz
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						Units
Frequency Range	F	2.0 to 35, 38.888, 40.000					MHz
Frequency Stability	$\Delta F/F$						
Overall		Inclusive of Calibration, Temperature, Voltage, Load, and Aging					
25° Calibration		±3.0					ppm
Aging 10 Years		±2.0					ppm
Over Operating Temperature		±1.0					ppm
Minimum Deviation		±2.8 ("TEW" model ±40)					ppm
Minimum Deviation Sensitivity		+14					ppm/V
Linearity		10					%
Modulation Bandwidth (±3dB) fm		>20					KHz
Nominal Control Voltage		2.5					V
Control Voltage Range	Vc	0.5 to 4.5					V
Transfer Function		Positive					
Input Impedance		>50Ω @ 10 KHz					
Operating Temperature	T _A	0 to 55					°C
Storage Temperature	T _S	-40 to 85					°C
Input Voltage	Vdd	+5.0 ±5%					V
Input Current	Idd	<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
		-70	-95	-120	-140	-150	
Temperature Cycle	MIL-STD-883, Method 1010, Condition B	-55°C to +125°C; Air-to-Air; 100 cycles; 10 min. dwell					
Mechanical Shock	MIL-STD-883, Method 2002, Condition B	1500 g's					
Vibration	MIL-STD-883, method 2007, Condition B	20-2000 Hz; 0.06 inch; 15 g's; 3 planes					
Humidity Steady State	MIL-STD-202, Method 103	40°C, 90%-95% R.H.; 56 days					
Thermal Shock	MIL-STD-883, Method 1011.7, Condition B	100°C to 0°C; Water-to-Water; 15 cycles					
Electrostatic Discharge	MIL-STD-883, Method 3015, Class II	2 KV to 4 KV Threshold					
Solderability	MIL-STD-883, Method 2022.2	Solder dip; Meniscograph Criteria					
Hermeticity	MIL-STD-883, Method 1014.8, Condition A1	Mass pectro. 2 x 10 ⁻⁸ atoms. CC/sec He					
Lead Integrity	MIL-STD-883, Method 2004.5, Condition A, B1	Lead tension & bend stress					
Marking Permanence	MIL-STD-883, Method 2015.8	Resistance to solvents					
Life Test	MIL-STD-883, Method 1005.6	125°C, powered, 1000 hours minimum					

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