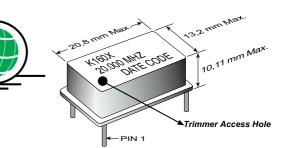
K1601 & K1602 Series

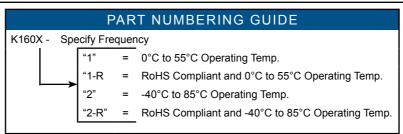
14 pin DIP, 5.0 Volt, Sinewave, TCXO



- Applications: Phase Locked Loops Clocking "Sync" to NTSC Video Standards; Reference Signal; Signal Tracking
- 16.0 to 30.0 MHz Frequency Range
- Manual Frequency Adjusted
- ±1ppm Stability; 0°C to 55°C Op. Temperature
- ±2ppm Stability; -40°C to 85°C Op. Temperature
- "Clipped" Sine Wave Output
- Non Hermetic Package

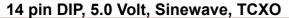


	<u>.</u>		
Model	K1601	K1602	
Frequency Range (MHz)	16.0 to 30		
Input Current (mA)	< 2		
Frequency Control Function	(For Custom Deviation Range, Vc Range, etc Consult Factory)		
Voltage Control	Included		
Minimum Deviation (ppm)	±28		
Minimum Deviation Sensitivity (ppm/V)	+14		
Linearity (%)	≤ 10		
Modulation Bandwidth (±3dB)	> 20K	(Hz	
Nominal Control Voltage (V)	2.5		
Control Voltage Range (V)	0.5 to 4.5		
Manual Adjusted (ppm)	±5 min.		
Transfer Function	Positive		
Input Impedance	> 50KΩ @ 10KHz		
Frequency Stability (ppm)			
Overall	Inclusive of Calibration, Temperature, Voltage, Load and Aging		
25 ^o C Calibration	±1.5		
Aging 10 Years (ppm)	±2.0		
Over Operating Temperature	±1.0	±2.0	
Temperature Range (^O C)	·		
Operating	0°C to +55°C	-40°C to +85°C	
Storage	-40°C to +85°C		
Supply Voltage (V)	+5.0V ±5%		
Output ("Clipped" Sine Wave)	1.0V p-p min., Clipped S	1.0V p-p min., Clipped Sine Wave; 10KΩ/10pF	
Start Up Time (ms)	<5	<5	
SSB Phase Noise (dBC/Hz)	10Hz	-70	
Offset from Carrier	100Hz	-95	
	1KHz	-120	
	10KHz	-140	
	100KHz	-150	

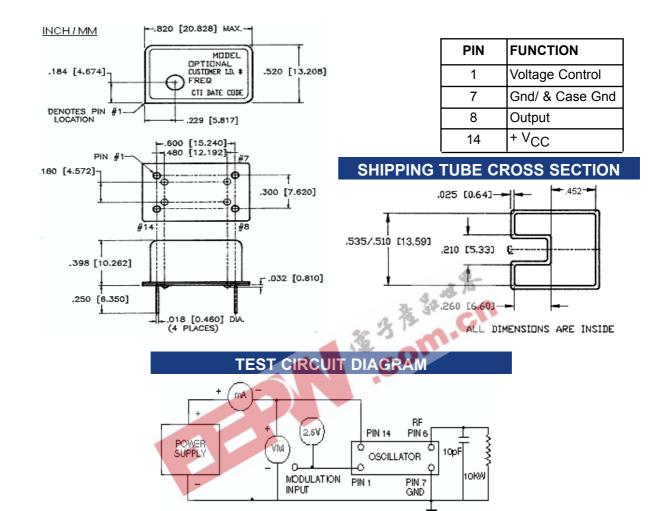


MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.

K1601 & K1602 Series





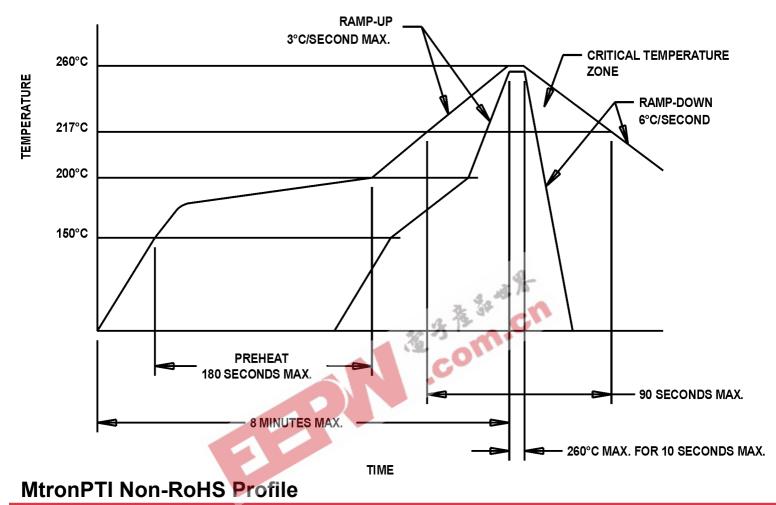


MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS			
TEST METHODS	REFERENCE PROCEDURES	DESCRIPTION	
Temperature Cycle	MIL-STD-833, Mtd 1010, Cond. B	-55°C to +125°C; Air-to-Air; 100 cycles; 10 min. dwell	
Mechanical Shock	MIL-STD-883, Mtd 2002, Cond. B	1500 g's	
Vibration	MIL-STD 883, Mtd 2007, Cond. B	20-2000 Hz; 0.06 inch; 15g's; 3 planes	
Humidity Steady State	MIL-STD-202, Mtd 103	40°C; 90%-95% R.H.; 56 days	
Thermal Shock	MIL-STD-883, Mtd 1011.7 Cond. B	100°C to 0°C; Water-to-Water; 15 cycles	
Electrostatic Discharge	MIL-STD-883, Mtd 3015 Class II	2 KV to 4 KV Threshold	
Solderability	MIL-STD-883, Mtd 2022.2	Solder dip; Meniscograph Criteria	
Hermeticity	MIL-STD-883, Mtd 1014.8, Cond. A1	Mass spectro. 2 x 10-8 atmos. CC/sec He	
Resistance to Soldering	MIL-STD-202, Mtd 210A, Cond. C		
Lead Integrity	MIL-STD-883, Mtd 2004.5, Cond. A, B1	Lead tension & bend stress	
Marking Permanence	MIL-STD-883, Mtd 2015.8	Resistance to solvents	
Life Test	MIL-STD-883, Mtd 1005.6	125°C, powered, 1000 hours minimum	

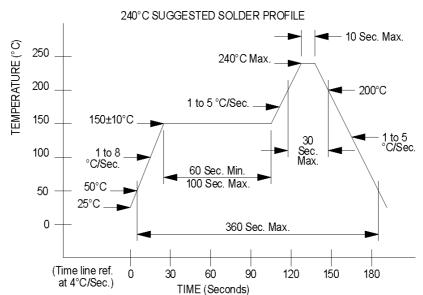
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MtronPTI Lead Free Solder Profile



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



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