

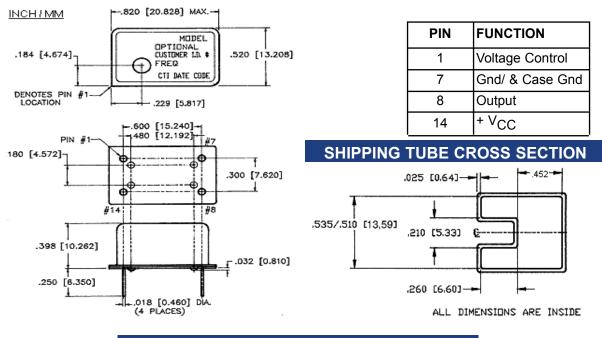
Applications: Phase Locked Loops Clocking "Sync" to NTSC Video Standards; Reference Signal; Signal Tracking 10,11 mm Max. -05 16.0 to 30.0 MHz Frequency Range Manual Frequency Adjusted ±1ppm Stability; 0°C to 55°C Op. Temperature ±2ppm Stability; -40°C to 85°C Op. Temperature Trimmer Access Hole "Clipped" Sine Wave Output PIN 1 Non Hermetic Package ELECTRICAL SPECIFICATIONS del K16 Range (I 16 to 30 enc Cui Inp enc Control h ction (For C m viation Range c Range, etc. - Cons Factory) re √olta Control Ided Minir on (ppm) Minimum Deviation Sensitivity (ppm/V) +14 Linearity (%) < 10 Modulation Bandwidth (±3dB) > 20KHz 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 25⁰C Calibration ±1.5 Aging 10 Years (ppm) ±2.0 Over Operating Temperature ±1.0 ±2.0 Temperature Range (^OC) Operating 0^oC to +55^oC -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 Sine Wave; 10KΩ/10pF Start Up Time (ms) <5 SSB Phase Noise (dBC/Hz) 10Hz -70 -95 Offset from Carrier 100Hz 1KHz -120 10KHz -140 -150 100KHz

PART NUMBERING GUIDE						
K160X - Specify Frequency						
		"1"	=	0°C to 55°C Operating Temp.		
		"1-R	=	RoHS Compliant and 0°C to 55°C Operating Temp.		
		"2"	=	-40°C to 85°C Operating Temp.		
		"2-R"	=	RoHS Compliant and -40°C to 85°C Operating Temp.		

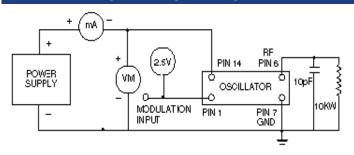
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Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.





TEST CIRCUIT DIAGRAM



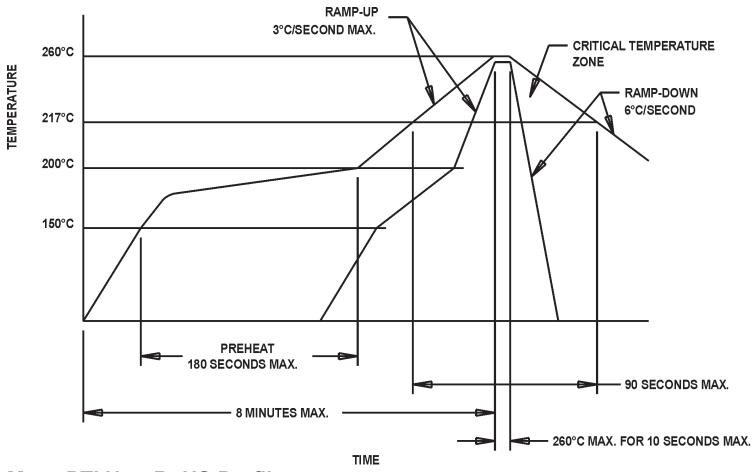
MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS						
TEST METHODS	REFERENCE PROCEDURES	DESCRIPTION				
Temperature Cycle	MIL-STD-833, Mtd 1010, Cond. B	-55°C to +125°C; Air-to-Air; 100 cycles; 10 min. dwell				
Mechanical Shock	MIL-STD-883, Mtd 2002, Cond. B	1500 g's				
Vibration	MIL-STD 883, Mtd 2007, 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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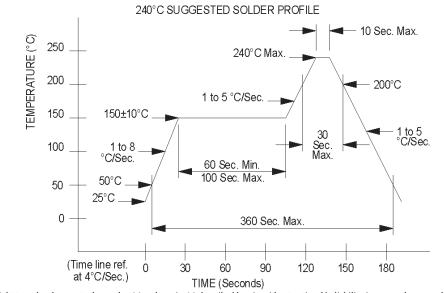
Mtron PTI[®]

MtronPTI Lead Free Solder Profile



MtronPTI Non-RoHS Profile

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



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