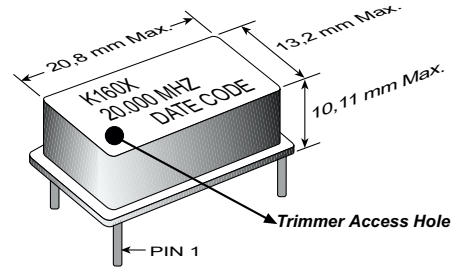


# K1601 & K1602 Series

## 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



### ELECTRICAL SPECIFICATIONS

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)	> 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	
25°C Calibration	±1.5	
Aging 10 Years (ppm)	±2.0	
Over Operating Temperature	±1.0	±2.0
Temperature Range (°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 Sine Wave; 10KΩ/10pF	
Start Up Time (ms)	<5	
SSB Phase Noise (dBC/Hz)	10Hz	-70
Offset from Carrier	100Hz	-95
	1KHz	-120
	10KHz	-140
	100KHz	-150

### PART NUMBERING GUIDE

K160X - Specify Frequency

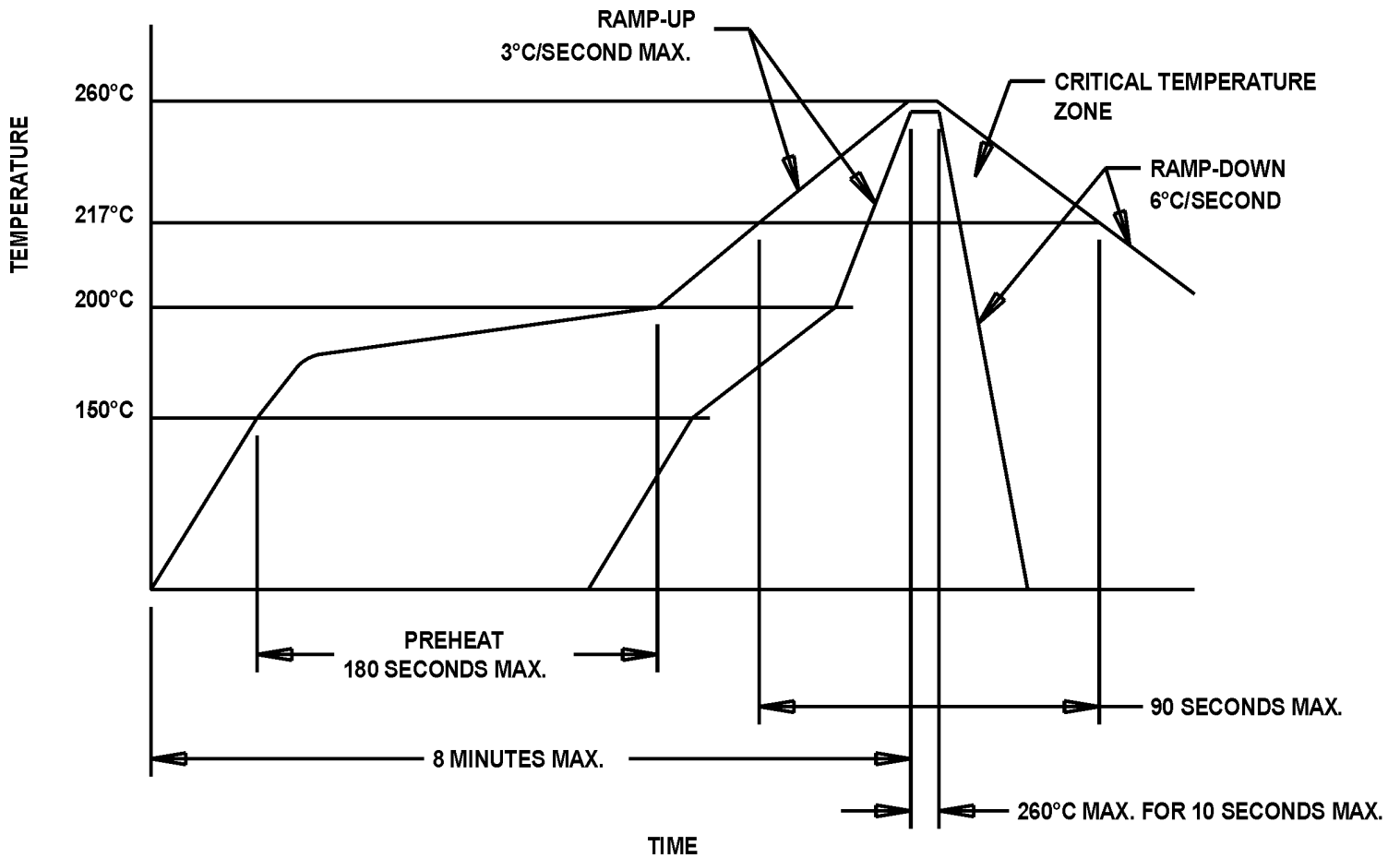
- "1" = 0°C to 55°C Operating Temp.
- "1-R" = RoHS Compliant and 0°C to 55°C Operating Temp.
- "2" = -40°C to 85°C Operating Temp.
- "2-R" = RoHS Compliant and -40°C to 85°C Operating Temp.

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

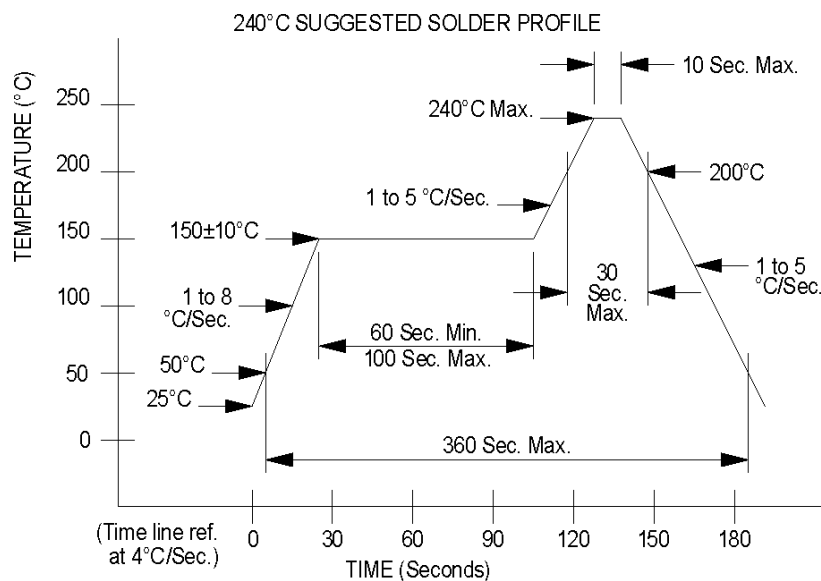


# MtronPTI Lead Free Solder Profile



# MtronPTI Non-RoHS Profile

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



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