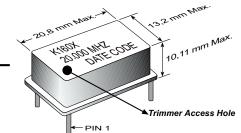
K1601 & K1602 Series 14 pin DIP, 5.0 Volt, Sinewave, TCXO

- **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 ⁰ C Calibration	±1.5		
Aging 10 Years (ppm)	±2.0		
Over Operating Temperature	±1.0	±2.0	
Temperature Range (^o C)	-		
Operating	0 ^o C to +55 ^o C	-40 ⁰ C to +85 ⁰ C	
Storage	-40 ^o C to +85 ^o 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	

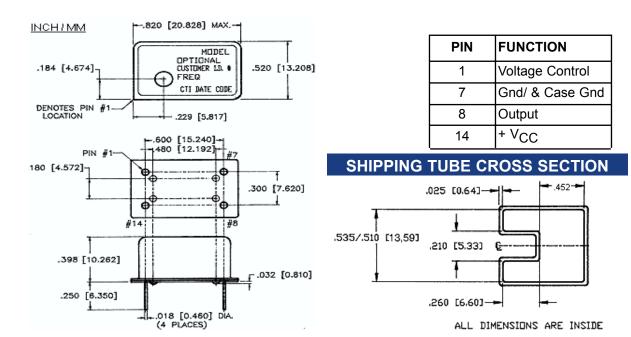
PART NUMBERING GUIDE						
K160X - Specify Frequency						
			"1"	=	0°C to 55°C Operating Temp.	
		~	"1-R	=	RoHS Compliant and 0°C to 55°C Operating Temp.	
		-	"2"	=	-40°C to 85°C Operating Temp.	
			"2-R"	=	RoHS Compliant and -40°C to 85°C Operating Temp.	

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.

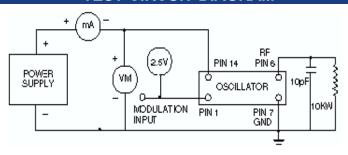
Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.







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	260°C; 10 seconds: 1 inch/sec.						
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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