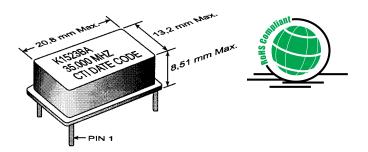
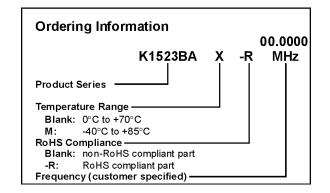
K1523BA Series 14 DIP, 5.0 Volt, Sinewave, VCXO





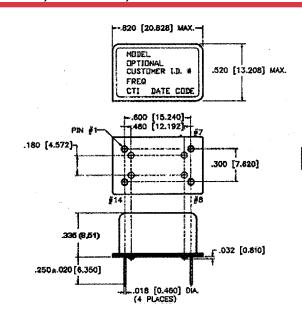
- Applications: Phase-Locked Loops (PLL's); Clock Recovery; Reference Signal Tracking; Synthesizers; Frequency Modulation/Demodulation
- 2.0 to 35.0 MHz Frequency Range
- 0.5V to 4.5V Control Voltage
- ±25ppm Stability
- Variety of Deviation Sensitivity Options
- -40°C to 85°C Operating Temperature



Model	K1523BA				
Frequency Range (MHz)	2 to 16	16 to 25	25 to 33	33.1 to 35	
Input Current (mA)	< 17	< 19	< 26		
Frequency Control Function	(For Custom Deviation Range, Vc Range, etc Consult Factory)				
Deviation (ppm)					
Minimum	±100		±100		
Maximum	±150		±190		
Linearity (%)	< 8		< 10		
Modulation Bandwidth (±3dB)	> 2KHz > 20KHz				
Nominal Control Voltage (V)	2.5				
Control Voltage Range (V)	0.5 to 4.5				
Transfer Function	Positive				
Input Impedance	> 50KΩ @ 10KHz				
Frequency Stability (ppm)					
Overall	Inclusive of Calibration, Temperature, Voltage, Load and Aging				
0°C to +70°C	±25 ±40		±40		
-40°C to +85°C	±50		±55		
Temperature Range (^O C)					
Operating	-40°C to +85°C				
Storage	-40°C to +125°C				
Supply Voltage (V)	+5.0V ±5%				
Symmetry (%) CMOS/TTL	45/55		40/60		
Start Up Time (ms)		<	10		
Typical SSB Phase Noise (dBC/Hz)	10Hz		-65		
Offset from Carrier	100Hz		-95		
	1KHz		-120		
			40		
	1006	0KHz		-150	

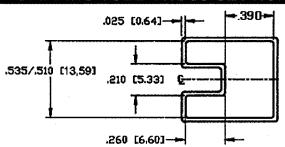
MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.





PIN	FUNCTION	
1	Voltage Control	
7	Gnd/ & Case Gnd	
8	Output	
14	+ Vcc	

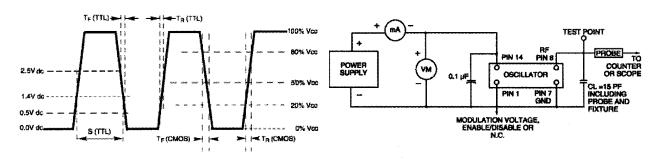
SHIPPING TUBE CROSS SECTION



ALL DIMENSIONS ARE INSIDE

OUTPUT WAVEFORM

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 210D, 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		

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.