- **Applications:** Phase-Locked Loops (PLL's), Clock Recovery, Reference Signal Tracking, Synthesizers, Frequency Modulation/Demodulation
- Ceramic Construction, Medal Lid
- 2.0 to 80 MHz Frequency Range
- 0.5V to 4.5 V Control Voltage
- ±25 ppm Stability (Typical)
- -40°C to +85°C Operating Temperature Option
- Tape and Reel Available
- Ground Shielded Top and Bottom
- 4-pin SOJ-20 Footprint
- J-Leads Seam-sealed, Resistance Welded Hermetic Package

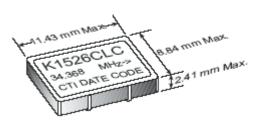
ELECT		RICAL SPECIFICATIONS	
		a	
Model	K1526CLC		
Frequency Range (MHz)	2 to 55	55.1 to 80	
Frequency Stability (ppm)			
Overall (Typical)	Inclusive of Calibration, Temperature, Voltage, Load, Shock, Vibration, and Aging		
0°C to +70°C	±25	±40	
-40°C to +85°C	±50	±60	
Frequency Control Function	(For Custom MTL, Vc Range, transfer function, etc. – Consult Factory)		
Deviation (Typical)	±120	±100	
Minimum Tuning Limit 0°C to 70°C	±60	±40	
Minimum Tuning Limit -40°C to 85°C	±50	±20	
Linearity	< 10%		
Modulation Bandwidth (±3dB)	>20KHz		
Nominal Control Voltage (V)	2.5		
Control Voltage Range (V)	0.5 to 4.5		
Transfer Function	Positive		
Input Impedance	> 50KΩ @ 10KHz		
Temperature Range (°C)			
Operating	-40°C to +85°C		
Storage	-40°C to +125°C		
Supply Voltage (V)	+5.0V ±10%		
Input Current (mA)	<30		
Start Up Time (ms)	<10		
Symmetry (%) TTL/CMOS	40/60		
Typical SSB Phase Noise (dBc/Hz)	10Hz	-65	
Offset from Carrier	100Hz	-95	
	1KHz	-120	
	10KHz	-140	
	100KHz	-150	

PART NUMBERING GUIDE

K1526CLC X X - Specific Frequency "Blank" = TTL/CMOS 40/60% "C" = CMOS 45/55% "T" = TTL 45/55% "Blank" = 0°C to +70°C Operating Temp. "M" = -40°C to +85°C Operating Temp.

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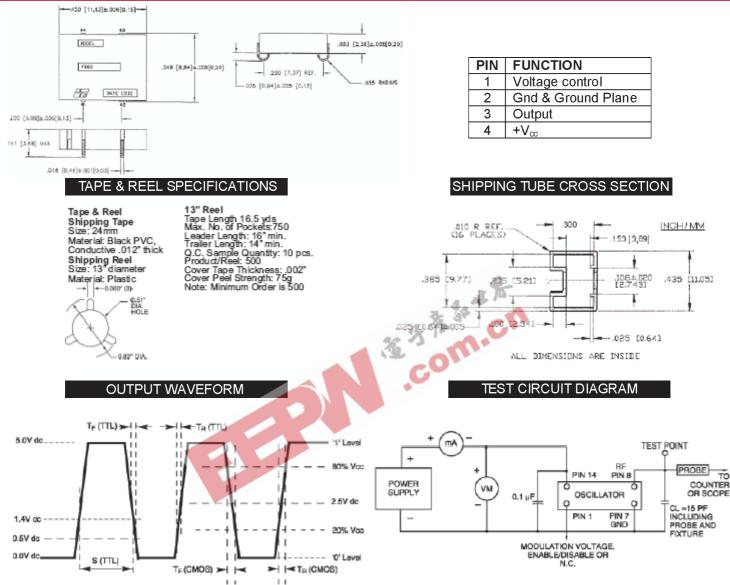




ELECTRICAL SPECIFICATIONS



K1526CLC Series 5V 9x11mm Surface Mount Voltage Controlled Crystal Oscillator



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	

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