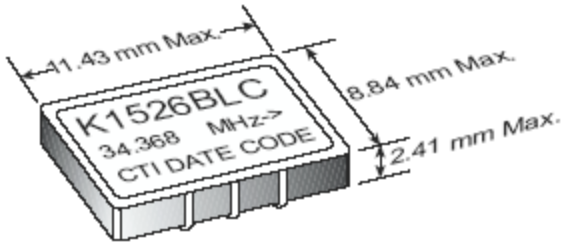
K1526BLC Series

5V 9x11mm Surface Mount Voltage Controlled Crystal Oscillator

- **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
- 6-pin SOJ-20 Footprint
- J-Leads Seam-sealed, Resistance Welded Hermetic Package



ELECTRICAL SPECIFICATIONS

Model	K1526BLC	
Frequency Range (MHz)	2 to 55	55.1 to 80
Frequency Stability (ppm)		
Overall	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	-115
	10KHz	-130
	100KHz	-140

PART NUMBERING GUIDE

K1526BLC 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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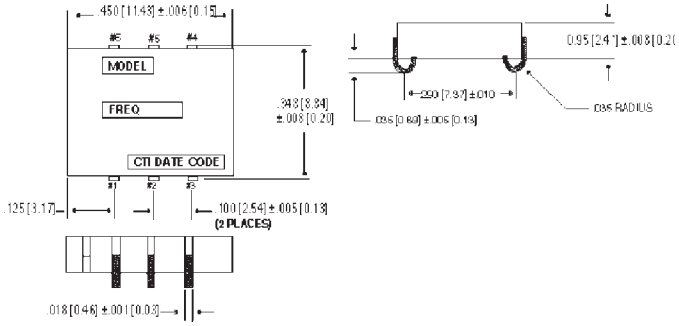
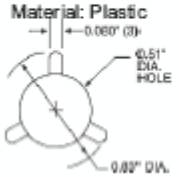


PIN	FUNCTION
1	Voltage Control
2	Tri-State
3	Gnd & Ground Plane
4	Output
5	N/C
6	$+V_{CC}$

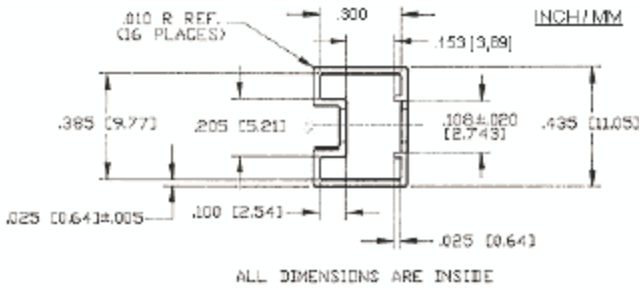
TAPE & REEL SPECIFICATIONS

Tape & Reel
Shipping Tape
Size: 24mm
Material: Black PVC, Conductive .012" thick
Shipping Reel
Size: 13" diameter
Material: Plastic

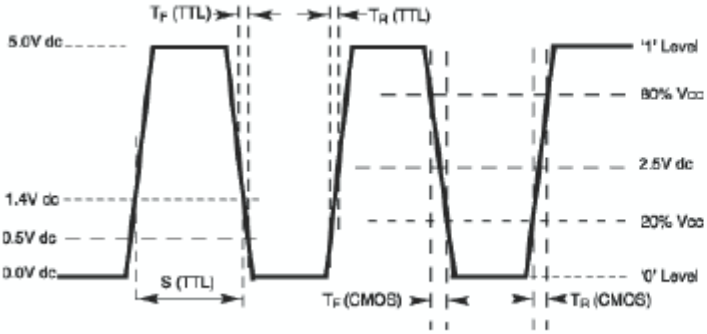


13" Reel
Tape Length 16.5 yds
Max. No. of Pockets:750
Leader Length: 16" min.
Trailer Length: 14" min.
Q.C. Sample Quantity: 10 pcs.
Product/Reel: 500
Cover Tape Thickness: .002"
Cover Peel Strength: 75g
Note: Minimum Order is 500

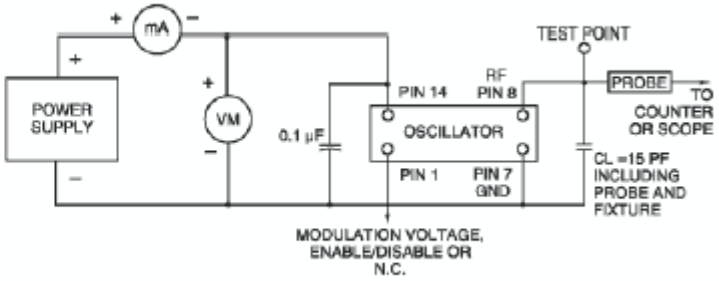
SHIPPING TUBE CROSS SECTION



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

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