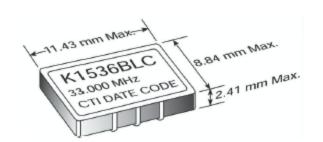
## K1536BLC Series

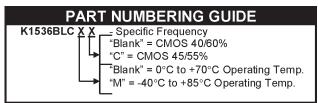
# 3.3V 9x11mm Surface Mount Voltage Controlled Crystal Oscillator



- 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
- 0.3V to 3.3V 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	K1536BLC		
Frequency Range (MHz)	2 to 55 55.1 to 80		
Frequency Stability (ppm)			
Overall (Typical)	Inchaive of Calibration, Temperature V	oltoge, Load, Chook, Vibration, and Aging	
0°C to +70°C		±40	
-40°C to +85°C	±50	_00	
Frequency Contre Function		sfer 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)	1.65		
Control Voltage Range (V)	0.3 to 3.0		
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)	+3.3V ±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	

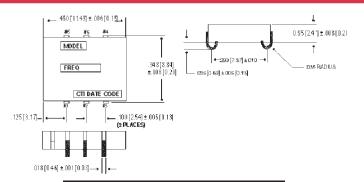


MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.

## K1536BLC Series







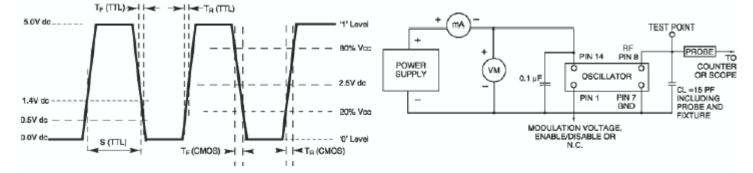
PIN	FUNCTION	
1	Voltage Control	
2	Tri-State	
3	Gnd & Ground Plane	
4	Output	
5	N/C	
6	+V <sub>CC</sub>	

#### TAPE & REEL SPECIFICATIONS

### 13" Reel Tape & Reel 13" Ree! 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/Ree! 500 Cover Tape Thickness: .002" Cover Peel Strength: 75g Note: Minimum Order is 500 Shipping Tape Size: 24 mm Material: Black PVC, Conductive .012' thick Shipping Reel Size: 13" diameter Material: Plastic

#### SHIPPING TUBE CROSS SECTION





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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