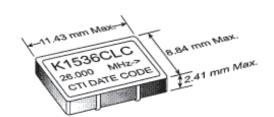
K1536CLC Series

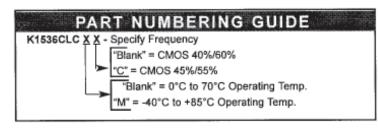
3.3V 9x11mm Surface Mount Voltage Controlled Crystal Oscillator



- 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
- ±25ppm 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



MODEL	ELECTRICAL SPECIFICATIONS K1536GLC		
Frequency Range (MHz)	2 to 55 55.1 to 80		
Frequency Stability (ppm)			
Overall (Typical)	Inclusive of calibration, temperature, v	voltage load shock vibration aging	
0°C to 70°C	±25 ±40		
-40°C to +85°C	±50	±60	
Frequency Community	(for cycle) L, Vonge, tran	n su	
Devia (Typic	±12	±100	
	±60	±40	
Minim Tuning mit 0.00 C	+F / -	±20	
Linearity	<10%		
Modulation Bandwidth (±3dB)	>20 KHz		
Nominal Control Voltage (V)	1.65		
Control Voltage Range (V)	0.3 to 3.0		
Transfer Function	Positive		
Input Impedance	>50 K Ω @ 10 KHz		
Temperature Range (°C)			
Operating	-40°C to	+85°C	
Storage	-40°C to +125°C		
Supply Voltage (V)	+3.3 ±10%		
Input Current (mA)	<30		
Start Up Time (ms)	<10		
Symmetry (%) CMOS	40/60		
Start up Time (ms)	<10		
Typical SSB Phase Noise (dBc/Hz)	10Hz	-65	
Offset from Carrier	100Hz	-95	
	1KHz	-115	
	10KHz	-130	
	100KHz	-140	

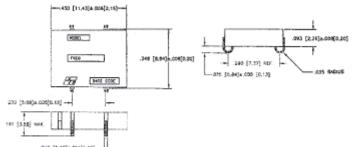


MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.

K1536CLC Series







PIN	FUNCTION	
1	Voltage Control	
2	Gnd & Ground Plane	
3	Output	
4	+ V _{CC}	

COLOTTOR (SAME) SIGN SHIPPING TUBE CROSS SECTION Tape & Reel Shipping Tape Size: 24mm Material: Black PVC, Conductive .012* thick Shipping Reel Size: 13* diameter INCH / MM "Reel pe Length 16.5 yds x. No. of Pockets:750 ader Length: 16" min. siler Length: 14" min. C. Sample Quantity: 10 pcs. oduct/Reel: 500 wer Tape Thickness: .002" wer Peel Strength: 75g te: Minimum Order is 500 - .153 [3,89] 證券39° 205 [5:21] .435 \$11,053 425 (0.64) Τ OPM \GR AVL 5.0V do COUNTER OR SCOPE POWER SUPPLY CL =15 PF INCLUDING PROBE AND FIXTURE 0.5V dc MODULATION VOLTAGE, ENABLE/DISABLE OR N.C. '0' Lovel S (TTL) TF (CMOS) > |-→ T_R (CMOS)

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. J	235°C; 30 seconds	
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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