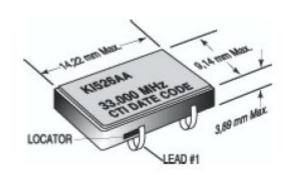
### K1526A Series

# 5V 9x14mm Surface Mount Voltage Controlled Crystal Oscillator

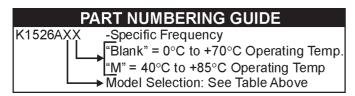
MtronPTI

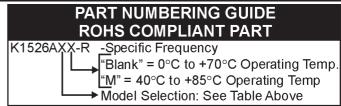
- Applications: Phase-Locked Loops (PLL's), Clock Recovery, Reference Signal Tracking, Synthesizers, Frequency Modulation/Demodulation
- · Ceramic Construction, Medal Lid
- 2.0 to 40 MHz Frequency Range
- 0.5V to 4.5 V Control Voltage
- · ±25 ppm Stability
- -40°C to +85°C Operating Temperature Option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



Not Recommended for New Designs. Refer to K1570A & K1570AQH Series as an Alternative.

	ELECTRICAL SPECIFICATIONS		
Model	K1526AA K1526AD		
Frequency Range (MHz)		1 to 40 2 to 3	
Frequency Stability (ppm)	2 to 33 33.	11040	33.1 10 40
Overall	Inclusive of Calibration, Temperature, Voltage, Load, and Aging		
0°C to +70°C	±25 ±40		
-40°C to +85°C	±50 ±60		
Frequency Control Function	(For Custom Deviation Range, Vc Range, transfer function, etc. – Consult Factory)		
Deviation (Typical)	(. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	igo, ro i tanigo, a anoio.	ianonon, etc. Concant actory)
Minimum	±100		±80
Maximum			±40
Linearity	<5% <	10%	<5%
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)	<26		
Start Up Time (ms)	<10		
Symmetry (%) TTL	45/55		
Symmetry (%) CMOS	<33 MHz 45/55, ≥33 MHz 40/60		
Typical SSB Phase Noise (dBC/Hz)	10Hz		-65
Offset from Carrier	100Hz		-95
	1KHz		-120
	10KHz		-140
	100KHz		-150



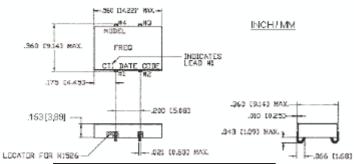


MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.

# K1526A Series

# 5V 9x14mm Surface Mount Voltage Controlled Crystal Oscillator





PIN	FUNCTION
1	Voltage Control
2	Gnd & Ground Plane
3	Output
4	+V <sub>∞</sub>

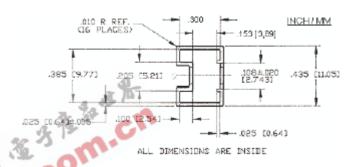
#### TAPE & REEL SPECIFICATIONS

# 

-0.83" DIA

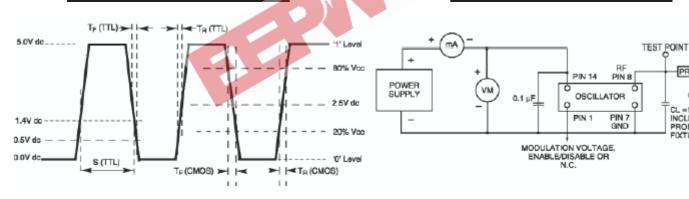
13" Reel
Tape Length 16.5 yds
Max. No. of Pockets:750
Leader Length: 16" min.
Trailer Length: 14" min.
Q.C. Sample Quantity: 10 pcs.
Product/Reel: 500
Cover Tape Thickness: .002"
Cover Peel Strength: 75g
Note: Minimum Order is 500

## 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		

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.

COUNTER OR SCOPE

CL =15 PF INCLUDING PROBE AND FIXTURE