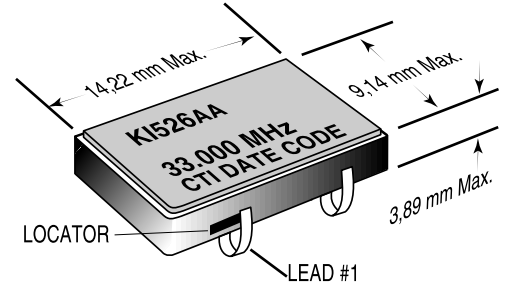


- ▲ APPLICATIONS Phase-Locked Loops (PLL's); Clock Recovery; Reference Signal Tracking; Synthesizers; Frequency Modulation/Demodulation
- ▲ Ceramic Construction, Metal Lid
- ▲ 2.0 to 55 MHz Frequency Range
- ▲ 0.5V to 4.5V Control Voltage
- ▲ ± 25 ppm Stability
- ▲ -40°C to 85°C Operating Temperature Option
- ▲ Tape and Reel Available
- ▲ Ground Shielded Top and Bottom
- ▲ 4-Pin SOJ-20 Footprint
- ▲ J-Leads
- ▲ Seam-sealed, Resistance Welded Hermetic Package



MECHANICAL DIMENSIONS:
Refer to Appendix E-1 (Pg. 45),
Package Type: SMT Type A (VCXO)

Application Specific Designs Also Available

ELECTRICAL SPECIFICATIONS

MODEL	K1526AA		K1526AD	
Frequency Range (MHz)	2 to 33	33.1 to 40	2 to 33	33 to 40
Frequency Stability (ppm)				
Overall	Inclusive of calibration, temperature, voltage, 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 (ppm)				
Minimum	±100		±80	
Maximum	±150		±120	
Linearity	<5%	<10%	<5%	
Modulation Bandwidth (±3dB)	>20 KHz			
Nominal Control Voltage (V)	2.5			
Control Voltage Range (V)	0.5 to 4.5			
Transfer Function	Positive			
Input Impedance	>50 Kohms @ 10 KHz			
Temperature Range (°C)				
Operating	-40°C to +85°C			
Storage	-40°C to +125°C			
Supply Voltage (V)	+5.0 ±10%			
Input Current (mA)	<26	<50	<26	
Output	Refer to Appendix A-1, Table 1, Figure 1			
Symmetry (%) TTL	<33 MHz 45/55; ≥33 MHz 40/60			
Symmetry (%) CMOS	<33 MHz 45/55; ≥33 MHz 40/60			
Start Up Time (ms)	< 10			
Test Circuit Diagram	Refer to Appendix A-1, Figure 2			

ORDERING INFORMATION

Typical Phase Noise (dBc/Hz)		
Offset from Carrier		
10 Hz	-65	K 1526 A X X - Specify Frequency → "Blank" = 0°C to 70°C Operating Temp. → "M" = -40°C to 85°C Operating Temp. → Deviation options, see table above, or call CTI for application specific requirements.
100 Hz	-95	
1 KHz	-120	
10 KHz	-140	
100 KHz	-150	



CHAMPION TECHNOLOGIES, INC.

1-800-888-1499 **or** www.champtech.com

