## K1526C & K1536C Series 9x11 mm, 5.0 or 3.3 Volt, CMOS/TTL, VCXO



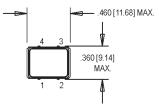
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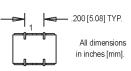
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MHz

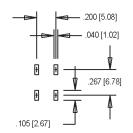


- Champion Product Former
- Phase-Locked Loops (PLL's), Clock Recovery, Reference Signal Tracking, Synthesizers, Frequency Modulation/ Demodulation



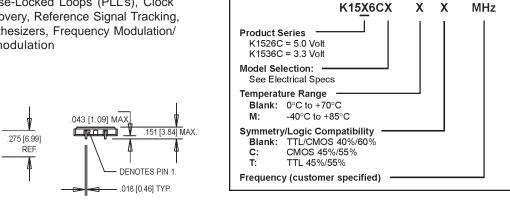


SUGGESTED SOLDER PAD LAYOUT



## **Pin Connections**

PIN	FUNCTION				
1	Voltage Control				
2	Ground & Gnd Plane				
3	Output				
4	+Vdd				



**Ordering Information** 

	PARAMETER	Symbol	Symbol				Units	Condition	
Electrical Specifications	Model		K15	26CA	K1526CD				
			K1536CA		K1536CD	K1526CE			
	Frequency Range	F	2 to 55	55.1 to 80	2 to 55	2 to 33	MHz		
	Frequency Stability:	∆F/F							
	Overall		Inclusive of Calibration, Temperature, Voltage, Load, and Aging						
	0°C to +70°C		±25	±40	±25	±32	ppm		
	-40°C to +85°C		±50	±60	±50	±50	ppm		
	Pullability								
	Minimum		±100	±80	±80	±200	ppm		
	Maximum		±150	±160	±130		ppm		
	Linearity		<10				%		
	Modulation Bandwidth (±3dB)	fm	>20				KHz		
	Nominal Control Voltage		2.5				V	K1526C	
	_		1.65				V	K1536C	
	Control Voltage	Vc	0 to 5			0 to 5	V		
			0.5 to 4.5				V	K1526C	
			0.3 to 3.0			V	K1536C		
	Transfer Function		Positive						
	Input Impedance		>50KΩ @ 10 kHz						
	Operating Temperature	TA	-40 to +85				°C		
	Storage Temperature	Ts	-40 to +125				°C		
	Input Voltage	Vdd	+5.0 ±10%				V	K1526C	
			+3.3 ±10%				V	K1536C	
	Input Current	ldd	<30				mA		
	Symmetry (Duty Cycle)		40/60				%		
	Start up Time		<10				ms		
	Phase Noise (Typical)	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	dBc/Hz		
Ш		-65	-95	-115	-130	-140			
	Temperature Cycle						-55°C to +125°C; Air-toAir; 100 cycles; 10 min. dwell		
Environmental	Mechanical Shock	MIL-STD-883, Method 2002, Condition B				1500 g's			
	Vibration	MIL-STD-883, Method 2007, Condition B				20-2000 Hz; 0.06 inch; 15 g's; 3 planes			
	Humidity Steady State	MIL-STD-202, Method 103				40°C; 90%-95% R.H.; 56 days			
	Thermal Shock	MIL-STD-883, Method 1011.7, Condition B				100°C to 0°C; Water-to-Water; 15 cycles			
	Electrostatic Discharge	MIL-STD-883, Method 3015, Class II 2				2 KV to 4 KV Threshold			
	Solderability	MIL-STD-883, Method 2022.2				Solder dip; Meniscograph Criteria			
	Hermeticity	MIL-STD-883, Method 1014.8, Condition A1 Mass					spectro. 2 x 10-8 atoms. CC/sec He		
	Resistance to Soldering	See "Figure 2" on page 147							
	Lead Integrity	MIL-STD-883, Method 2004.5, Cond. A,B1				Lead tension & bend stress			
	Marking Permanence	MIL-STD-	IL-STD-883, Method 2015.8				Resistance to solvents		
	Life Test	MIL-STD-883, Method 1005.6				125°C, powered, 1000 hours minimum			

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