## K1526C & K1536C

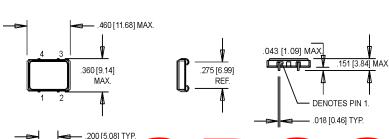
## 9x11 mm, 5.0 or 3.3 Volt, CMOS/TTL, VCXO

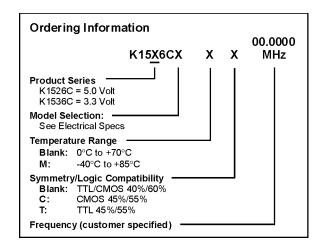


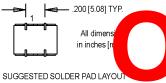


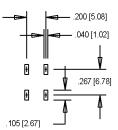


- Former Champion Product
- Phase-Locked Loops (PLL's), Clock Recovery, Reference Signal Tracking, Synthesizers, Frequency Modulation/Demodulation









## 3]

## **Pin Connections**

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

DARAN ER	Sym		1		_	Units		
AIN.	Суп		6CA			Ollits		
				K1536CD	K1 CE			
Frague Ra		55	55 1 to 80	2 to 55		MHz		
	ΔE/E		<u> </u>					
						ppm		
						ppm		
		130	100	±30	±30	ppiii		
,		+100	±8∩	±80	+200	ppm		
					±200	1 ' '		
Waxiiilaiii		±150	±100	±130		ppm		
PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes		
Operating Temperature	TA	(See ordering		-	-			
Storage Temperature	Ts	-40		+125	°C			
Aging								
1 <sup>st</sup> Year		-3/-5		+3/+5	ppm	<52 MHz / ≥52 MHz		
Thereafter (per year)		-1/-2		+1/+2	ppm	<52 MHz / ≥52 MHz		
Control Voltage	Vc	0.5	2.5	4.5	V	K1526C		
, and the second second		0.3	1.65	3.0	V	K1536C		
		0		5.0	V	K1526CE		
Linearity				10	%	Positive Monotonic Slope		
Modulation Bandwidth	fm	20			kHz	+3 dB		
Input Impedance	Zin	50K			Ohms	@ 10 kHz		
Input Voltage	Vdd	4.5	5.0	5.5	V	K1526C		
		3.0	3.3	3.6	V	K1536C		
Input Current	ldd			30	mA			
Output Type						CMOS/TTL		
Load				15	pF	HCMOS		
Symmetry (Duty Cycle)	(See ordering information)							
Logic "1" Level	Voh	Vdd -0.5			V			
Logic "2" Level	Vol			0.5	V			
Output Current				20	mA			
Rise/Fall Time	Tr/Tf			5	ns	20% to 80% Vdd, CL = 15 pF		
Start up Time				10	ms			
Phase Jitter @ 26 MHz	ΦJ		4		ps RMS	Integrated 12 kHz – 20 MHz		
Phase Noise (Typical)	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	Offset from carrier		
•	-65	-95	-115	-130	-140	dBc/Hz		
Mechanical Shock	Per MIL-STD-202, Method 213, Condition C (100 g/s, 6 mS duration, ½ sinewave)							
Vibration								
Hermeticity	Per MIL-STD-202, Method 112, (1x10-8 atm. cc/s of Helium)							
Thermal Cycle	Per MIL-STD-883, Method 1010, Condition B (-55°C to +125°C, 15 min. dwell, 10 cycles)							
	Per EIAJ-STD-002							
Solderability	Per EIAJ-STD	)-002						
	Overall 0°C to +70°C 40°C to +85°C  Pullability Minimum Maximum  PARAMETER Operating Temperature Storage Temperature Storage Temperature Aging 1st Year Thereafter (per year) Control Voltage  Linearity Modulation Bandwidth Input Impedance Input Voltage  Input Current Output Type Load Symmetry (Duty Cycle) Logic "1" Level Logic "2" Level Output Current Rise/Fall Time Start up Time Phase Jitter @ 26 MHz Phase Noise (Typical) @ 26 MHz Mechanical Shock Vibration Hermeticity	Trequency Stability Overall 0°C to +70°C 40°C to +85°C Pullability Minimum Maximum  PARAMETER Operating Temperature Storage Temperature T <sub>A</sub> Storage Temperature T <sub>S</sub> Aging 1st Year Thereafter (per year)  Control Voltage  Vc  Linearity Modulation Bandwidth Input Impedance Input Voltage Vdd  Input Current Output Type Load Symmetry (Duty Cycle) Logic "1" Level Vol Logic "2" Level Vol Output Current Start up Time Phase Jitter @ 26 MHz Phase Noise (Typical) @ 26 MHz @ 26 MHz Wether Millstree Ver Millstree	Control Voltage	Core   Frequency Stability	Note	Rain		

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.