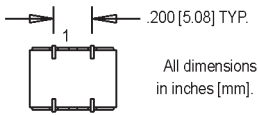
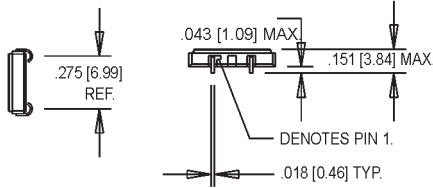
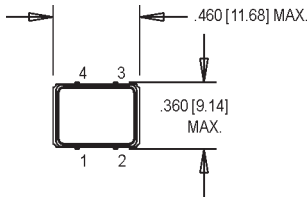


K1526C & K1536C Series

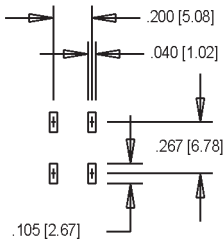
9x11 mm, 5.0 or 3.3 Volt, CMOS/TTL, VCXO



- Former **Champion TECHNOLOGIES, INC.** Product
- 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

00.0000 MHz

K15X6CX X X

Product Series
 K1526C = 5.0 Volt
 K1536C = 3.3 Volt

Model Selection:
 See Electrical Specs

Temperature Range
Blank: 0°C to +70°C
M: -40°C to +85°C

Symmetry/Logic Compatibility
Blank: TTL/CMOS 40%/60%
C: CMOS 45%/55%
T: TTL 45%/55%

Frequency (customer specified)

PARAMETER	Symbol					Units
Model		K1526CA K1536CA		K1526CD K1536CD	K1526CE	
Frequency Range	F	2 to 55	55.1 to 80	2 to 55	2 to 40	MHz
Frequency Stability:	$\Delta F/F$	Inclusive of Calibration, Temperature, Voltage, Load, and Aging				
Overall						
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
PARAMETER Symbol Min. Typ. Max. Units Condition/Notes						
Operating Temperature	TA	(See ordering information)				
Storage Temperature	TS	-40		+125		°C
Aging						
1 st Year		-3/-5		+3/+5		ppm
Thereafter (per year)		-1/-2		+1/+2		ppm
Control Voltage	Vc	0.5	2.5	4.5		V
		0.3	1.65	3.0		V
		0		5.0		V
Linearity				10		%
Modulation Bandwidth	fm	20				kHz
Input Impedance	Zin	50K				Ohms
Input Voltage	Vdd	4.5	5.0	5.5		V
		3.0	3.3	3.6		V
Input Current	Idd			30		mA
Output Type						CMOS/TTL
Load				15		pF
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
Start up Time				10		ms
Phase Jitter @ 26 MHz	ϕ_J		4			ps RMS
Phase Noise (Typical) @ 26 MHz		100 Hz	1 kHz	10 kHz	100 kHz	Offset from carrier dBc/Hz
		-65	-95	-115	-130	-140

Electrical Specifications

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.

Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.