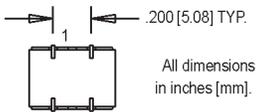
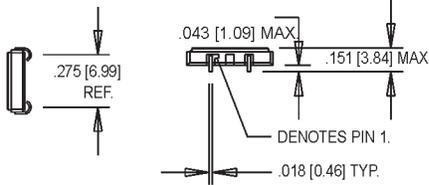
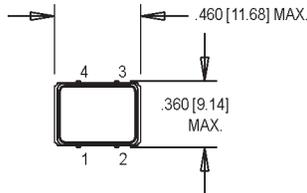


K1526C & K1536C Series

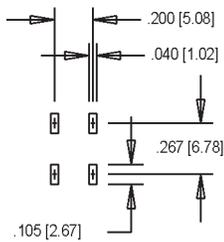
9x11 mm, 5.0 or 3.3 Volt, CMOS/TTL, VCXO



- 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	
Frequency Stability:	$\Delta F/F$	Inclusive of Calibration, Temperature, Voltage, Load, and Aging				
Overall		± 25	± 40	± 25	± 32	
0°C to +70°C		± 50	± 60	± 50	± 50	
-40°C to +85°C						
Pullability						
Minimum		± 100	± 80	± 80	± 200	
Maximum		± 150	± 160	± 130		
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	<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
		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	Idd			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	σ_J		4		ps RMS	Integrated 12 kHz – 20 MHz
Phase Noise (Typical) @ 26 MHz		100 Hz	1 kHz	10 kHz	100 kHz	Offset from carrier
		-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.