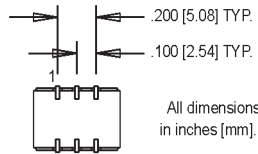
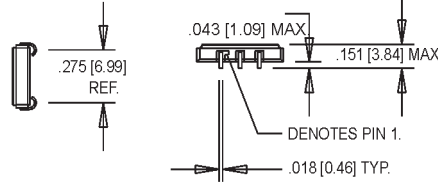
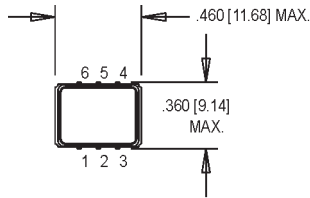


K1526B & K1536B Series

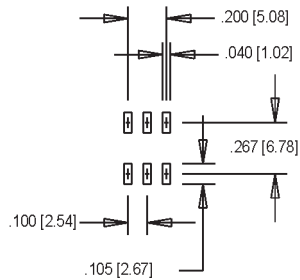
9x11 mm, 5.0 or 3.3 Volt, CMOS/TTL, VCXO



- 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	Tristate
3	Ground & Gnd Plane
4	Output
5	N/C
6	+Vdd

Ordering Information

Product Series	K15X6BX	X	X	00.0000 MHz
K1526B = 5.0 Volt				
K1536B = 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		K1526BA K1536BA	K1526BD K1536BD	K1526BE			
Frequency Range	F	2 to 55	55.1 to 80	2 to 55	2 to 40	MHz	
Frequency Stability: Overall	$\Delta F/F$	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	
PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition/Notes	
Operating Temperature	T _A	(See Ordering Information)					
Storage Temperature	T _s	-40		+125	°C		
Aging 1st Year		-3/-5		+3/+5	ppm	< 52 MHz / ≥ 52 MHz	
Thereafter (per year)		-1/-2		+1/+2	ppm	< 52 MHz / ≥ 52 MHz	
Control Voltage	V _c	0.5	2.5	4.5	V	K1526B	
		0.3	1.65	3.0	V	K1536B	
		0		5.0	V	K1526BE	
Linearity				10	%	Positive Monotonic Slope	
Modulation Bandwidth	f _m	20			kHz	+3 dB	
Input Impedance	Z _{in}	50k			Ohms	@ 10 kHz	
Input Voltage	V _{dd}	4.5	5.0	5.5	V	K1526B	
		3.0	3.3	3.6	V	K1536B	
Input Current	I _{dd}			30	mA		
Output Type						CMOS/TTL	
Load				15	pF	HCMOS	
Symmetry (Duty Cycle)		(See Ordering Information)					
Logic "1" Level	V _{oh}	V _{dd} -0.5			V		
Logic "0" Level	V _{ol}			0.5	V		
Output Current				20	mA		
Rise/Fall Time	T _r /T _f			5	ns	20% to 80% V _{dd} , C _L = 15 pF	
Tristate Function		Input Logic "1": output active Input Logic "0": output disables to high-Z					
Start up Time				10	ms		
Phase Jitter @ 26 MHz	φ _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 dBc/Hz	
		-65	-95	-115	-130	-140	

VCXO

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.