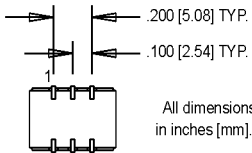
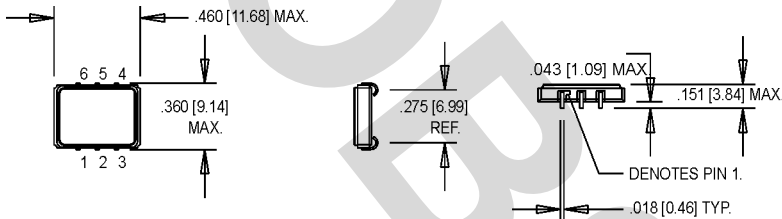


K1526B & K1536B Series

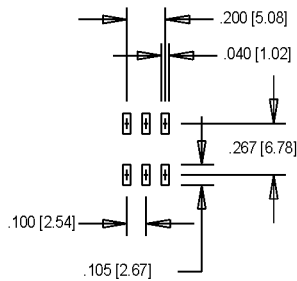
9x11 mm, 5.0 or 3.3 Volt, CMOS/TTL, VCXO



- 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

K15X6BX X X 00.0000 MHz

Product Series
 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	
Frequency Stability: Overall	$\Delta F/F$	Inclusive of Calibration, Temperature, Voltage, Load, and Aging				
0°C to +70°C		±25	±40	±25	±32	
-40°C to +85°C		±50	±60	±50	±50	
Pullability Minimum		±100	±80	±80	±200	
Maximum		±150	±160	±130		
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} , CL = 15 pF
Tristate Function		Input Logic "1" or floating: 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
		-65	-95	-115	-130	-140

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.

MtronPTI Lead Free Solder Profile

