

K1526B & K1536B Series

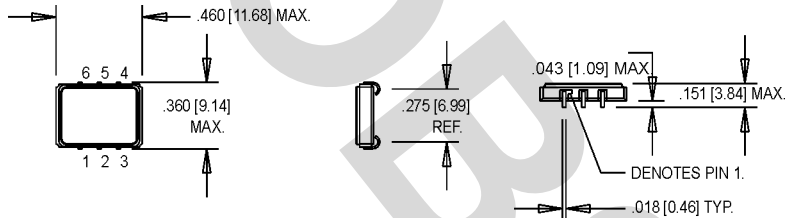
9x11 mm, 5.0 or 3.3 Volt, CMOS/TTL, VCXO



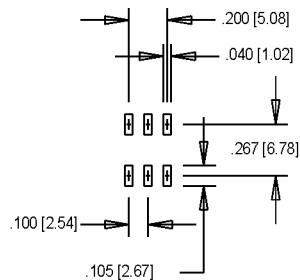
Ordering Information

	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)				

- 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

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 0.3 0	2.5 1.65	4.5 3.0 5.0	V	K1526B K1536B 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 3.0	5.0 3.3	5.5 3.6	V	K1526B 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" 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 -65	1 kHz -95	10 kHz -115	100 kHz -130	Offset from carrier dBc/Hz

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MtronPTI Lead Free Solder Profile

