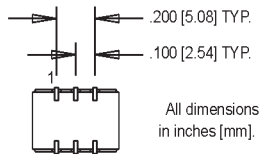
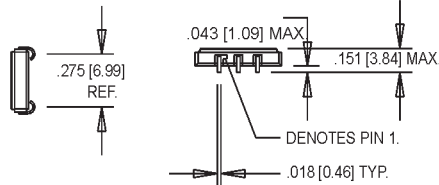
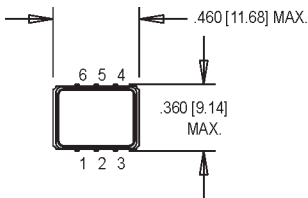


K1526B & K1536B Series

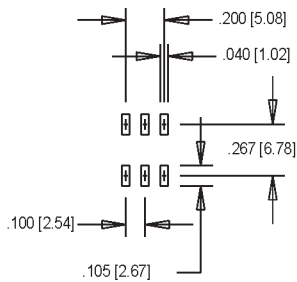
9x11 mm, 5.0 or 3.3 Volt, CMOS/TTL, VCXO



- 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	Tri-state
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	Condition
Model		K1526BA	K1526BD	K1536BA	K1536BD	K1526BE	
Frequency Range	F	2 to 55	55.1 to 80	2 to 55	2 to 33	MHz	
Frequency Stability:	$\Delta F/F$						
Overall		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	
Linearity		<10				%	
Modulation Bandwidth (±3dB)	fm	>20				KHz	
Nominal Control Voltage		2.5				V	K1526B
		1.65				V	K1536B
Control Voltage	Vc	0 to 5				V	
		0.5 to 4.5				V	K1526B
		0.3 to 3.0				V	K1536B
Transfer Function		Positive					
Input Impedance		>50K Ω @ 10 kHz					
Operating Temperature	Ta	-40 to +85				°C	
Storage Temperature	Ts	-40 to +125				°C	
Input Voltage	Vdd	+5.0 ±10%				V	K1526B
		+3.3 ±10%				V	K1536B
Input Current	Idd	<30				mA	
Symmetry (Duty Cycle)		40/60				%	
Start up Time		<10				ms	
Phase Noise (Typical)		10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	dBc/Hz
		-65	-95	-115	-130	-140	
Temperature Cycle		MIL-STD-883, Method 1010, Condition B				-55°C to +125°C; Air-to-Air; 100 cycles; 10 min. dwell	
Mechanical Shock		MIL-STD-883, Method 2002, Condition B				1500 g's	
Vibration		MIL-STD-883, Method 2007, Condition B				20-2000 Hz; 0.06 inch; 15 g's; 3 planes	
Humidity Steady State		MIL-STD-202, Method 103				40°C; 90%-95% R.H.; 56 days	
Thermal Shock		MIL-STD-883, Method 1011.7, Condition B				100°C to 0°C; Water-to-Water; 15 cycles	
Electrostatic Discharge		MIL-STD-883, Method 3015, Class II				2 KV to 4 KV Threshold	
Solderability		MIL-STD-883, Method 2022.2				Solder dip; Meniscograph Criteria	
Hermeticity		MIL-STD-883, Method 1014.8, Condition A1				Mass spectro. 2 x 10 ⁻⁸ atoms. CC/sec He	
Resistance to Soldering		See "Figure 2" on page 147					
Lead Integrity		MIL-STD-883, Method 2004.5, Cond. A,B1				Lead tension & bend stress	
Marking Permanence		MIL-STD-883, Method 2015.8				Resistance to solvents	
Life Test		MIL-STD-883, Method 1005.6				125°C, powered, 1000 hours minimum	

VCXO

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