K1526C & K1536C

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

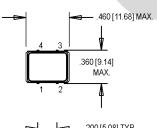


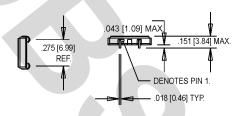


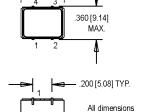




- Former Champion Product
- Phase-Locked Loops (PLL's), Clock Recovery, Reference Signal Tracking, Synthesizers, Frequency Modulation/Demodulation

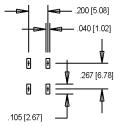








in inches [mm].



Pin Connections

PIN	FUNCTION			
1	Voltage Control			
2	Ground & Gnd Plane			
3	Output			
4	+Vdd			

Ordering Information				
K15 <u>X</u> 6C	X	X	Х	00.0000 MHz
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		1			Units	
	Model	Syllibol	K1526	<u>.</u>	K1526CD	+	Offics	
	Wodel				K1526CD K1536CD	1/450605		
	F	F	2 to 55	55.1 to 80		K1526CE	NAL I-	
	Frequency Range		2 to 55	55.1 to 80	2 to 55	2 to 40	MHz	
	Frequency Stability	ΔF/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	
	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes	
	Operating Temperature	T _A	(See ordering	information)				
<u>ر</u>	Storage Temperature	Ts	-40		+125	°C		
Specifications	Aging							
ati	1 st Year		-3/-5		+3/+5	ppm	<52 MHz / ≥52 MHz	
Ιŝ	Thereafter (per year)		-1/-2		+1/+2	ppm	<52 MHz / ≥52 MHz	
) ec	Control Voltage	Vc	0.5	2.5	4.5	V	K1526C	
ŝ	1		0.3	1.65	3.0	V	K1536C	
ca			0		5.0	V	K1526CE	
Electrical	Linearity		_		10	%	Positive Monotonic Slope	
l ē	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	ldd			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	ΦЈ		4		ps RMS	Integrated 12 kHz – 20 MHz	
	Phase Noise (Typical)	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	Offset from carrier	
	@ 26 MHz	-65	-95	-115	-130	-140	dBc/Hz	
- a	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 mS duration, ½ sinewave)						
ant:	Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)						
Ĭ	Hermeticity	Per MIL-STD-202, Method 112, (1x10-8 atm. cc/s of Helium)						
ē	Thermal Cycle	Per MIL-STD-883, Method 1010, Condition B (-55°C to +125°C, 15 min. dwell, 10 cycles)						
Environmental	Solderability	Per EIAJ-STD-002						
l ^w	Soldering Conditions +240°C max. for 10 secs.							

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.



MtronPTI Lead Free Solder Profile

