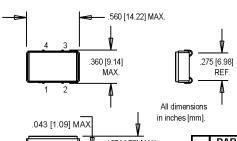
K1526D Series 9x14 mm, 5.0 Volt, CMOS/TTL, VCXO

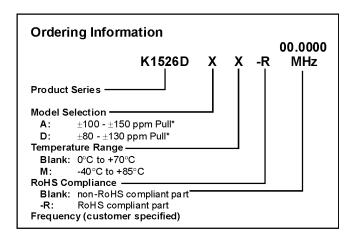






- Former Champion Product
- Phase-Locked Loops (PLL's), Clock Recovery, Reference Signal Tracking, Synthesizers, Frequency Modulation/Demodulation

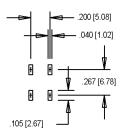




^{*} Above 40 MHz, pull is ±100 ppm or ±80 ppm minimum (no maximum)

.043 [1.09] MAX	ir
.187 [4.75] MA>	ζ.
DENOTES PIN 1.	
.018 [0.46] TYP.	
200 [5.08] TYP.	

SUGGESTED SOLDER PAD LAYOUT



Pin Connections

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

	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes	
	Frequency Range	F	2		40	MHz		
	Operating Temperature	T _A	(See ord	ering infor	mation)			
	Storage Temperature	Ts	-40	Ĭ	+125	°C		
	Frequency Stability	ΔF/F		•	· B	•		
	Overall		Inclusive	of Calibra				
				Load, and				
	0°C to +70°C				±25	ppm		
	-40°C to +85°C				±50	ppm		
	Aging					l i		
	1 st Year		-3		+3	ppm		
	Thereafter (per year)		I -1		+1	ppm		
	Pullability/APR		(See ord	ering infor	mation)		†	
Su	Control Voltage	Vc	0.5	2.5	4.5	IV		
Specifications	Linearity						Positive Monotonic Slope	
ဋ	2.000 to 33.000 MHz				5	%		
ξ	33.001 to 160.000 MHz				10	%		
ĝ	Modulation Bandwidth	fm	20			KHz	±3dB	
	Input Impedance	Zin	50k		†	Ohms	@ 10 kHz	
ᆵ	Input Voltage	Vdd	4.5	5.0	5.5	V		
Electrical	Input Current	Idd	1		26	mA	†	
▥	Output Type	144					HCMOS/TTL	
	Load		5 TTL or 15 pF HCMOS				See Note 1	
	Symmetry (Duty Cycle)		1	T	T		See Note 2	
	TTL & CMOS < 33 MHz		45		55	%		
	CMOS ≥ 33 MHz		40		60	%		
	Logic "1" Level	Voh	4.5		100	v		
	Logic "0" Level	Vol	7.0		0.5	V	 	
	Output Current	VOI	1		±16	mA	 	
	Rise/Fall Time	Tr/Tf	1		4	ns	 	
	Start up Time		+		10	ms	 	
	Phase Jitter @ 26 MHz	фЈ	+	4	10	ps RMS	Integrated 12 kHz – 20 MHz	
	Phase Noise (Typical)	φυ 10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	Offset from carrier	
	@ 26 MHz	-65	-95	-115	-130	-140	dBc/Hz	
	Mechanical Shock							
Environmental	Vibration	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 mS duration, ½ sinewave) Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)						
盲	Hermeticity	Per MIL-STD-202, Method 201 & 204 (10 g s from 10-2000 Hz) Per MIL-STD-202, Method 112, (1x10-8 atm. cc/s of Helium)						
ᇤ	Thermal Cycle	Per MIL-STD-883, Method 112, (1x10-8 atm. cc/s of Helium) Per MIL-STD-883, Method 1010, Condition B (-55°C to +125°C, 15 min. dwell, 10 cycles)						
Ϋ́	Solderability	Per MIL-STD-883, Method 1010, Condition B (-55°C to +125°C, 15 min. dwell, 10 cycles) Per EIAJ-STD-002						
Ē	,	+240°C max. for 10 secs.						
_	Soldering Conditions	+240°C m	ax. for 10 s	ecs.				

- 1. TTL load see load circuit diagram #1. HCMOS load see load circuit diagram #2.
- 2. Symmetry is measured at 1.4 V with TTL load, and at 50% Vdd with HCMOS load.

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.