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



					Ordering Information 00.0000 K1526D X X -R MHz 				
Former Champion	Proc	Juct		Proc	Product Series ———				
 Phase-Locked Loops (PLL's), Clock Recovery, Reference Signal Tracking, Synthesizers, Fre- quency Modulation/Demodulation 					Model Selection A: ±100 - ±150 ppm Pull* D: ±80 - ±130 ppm Pull* Temperature Range Blank: 0°C to +70°C M: -40°C to +85°C RoHS Compliance Blank: non-RoHS compliant part				
		I		-R	R: Ro⊦	HS complia	ant part		
4 3 4 .360 [9.14] MAX					Frequency (customer specified) * Above 40 MHz, pull is ±100 ppm or ±80 ppm minimum (no maximum)				
1 2 All dime .043 [1.09] MAX		4		ą.	24.13	8-			
187 [4.75] MAX.	\square	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes	
	'	Frequency Range Operating Temperature	F	2 (Sco. ard)		40	MHz		
	'	Storage Temperature	T _A Ts	-40	lering infor	rmation) +125	°C	 	
DENOTES PIN 1.	'	Frequency Stability	ΔF/F		<u> </u>	<u> </u>		+	
.018 [0.46] TYP.	'	Overall				ation, Temp	perature,		
	/	20010 17000		Voltage,	Load, and				
	17	0°C to +70°C	/	1		±25 +50	ppm		
τ <u>−−0−−0</u> −−1		-40°C to +85°C Aging	'			±50	ppm		
		Aging 1 st Year	1 '	-3	1	+3	ppm		
		Thereafter (per year)	1 '	-0 -1	1	+1	ppm		
		Pullability/APR			lering infor			<u> </u>	
JGGESTED SOLDER PAD LAYOUT	Suo	Control Voltage	Vc	0.5	2.5	4.5	V	<u> </u>	
GOLOTED GOLDERTING EN GOL	Specifications	Linearity	· · · · · ·	, <u> </u>		 		Positive Monotonic Slope	
200 [5.08]	<u>≓</u> ′	2.000 to 33.000 MHz	1 '	1 1	1	5	%		
	be l	33.001 to 160.000 MHz	L'		L	10	%		
.040 [1.02]	5		fm	20		<u> </u>	KHz	±3dB	
	Electrical	Input Impedance	Zin	50k	Í	<u> </u>	Ohms	@ 10 kHz	
• • • • • • • • • • • • • • • • • • •	ţ,	Input Voltage	Vdd	4.5	5.0	5.5	V mA	<u> </u>	
Ū Ū [∇ .267 [6.78]	187	Input Current	ldd	—	 	26	mA		
	'	Output Type Load	└─── ′		15 pF HC	MOS	L	HCMOS/TTL See Note 1	
<u> </u>	1 1	Symmetry (Duty Cycle)	l'	UTIES.		T	Γ	See Note 2	
.105 [2.67]	7	TTL & CMOS < 33 MHz	1 '	45	1	55	%		
100 [2:0:]	7	CMOS ≥ 33 MHz	1 '	40	1	60	%		
	7	Logic "1" Level	Voh	4.5	<u> </u>	<u>+</u>	V	<u> </u>	
	'	Logic "0" Level	Vol	<u>'</u>		0.5	V		
	'	Output Current		<u> </u>		±16	mA		
	'	Rise/Fall Time	Tr/Tf			4	ns		
in Connections	7	Start up Time				10	ms		
	'	Phase Jitter @ 26 MHz	φJ		4		ps RMS	Integrated 12 kHz – 20 MHz	
PIN FUNCTION	'	Phase Noise (Typical)	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	Offset from carrier	
1 Voltage Control	_L'	@ 26 MHz	-65	-95	-115	-130	-140	dBc/Hz	
2 Ground & Gnd Plane	ष्ट्र	Mechanical Shock						6 mS duration, ½ sinewave)	
3 Output	Environmental	Vibration				<u> </u>	g's from 10-20	· · · · · · · · · · · · · · · · · · ·	
4 +Vdd	۲ <u>د</u>	Hermeticity	Per MIL-STD-202, Method 112, (1x10-8 atm. cc/s of Helium)						
4 ⁺ vuu	<u>e</u> 7	Thermal Cycle	Per MIL-STD-883, Method 1010, Condition B (-55°C to +125°C, 15 min. dwell, 10 cycles)						
	' يَ ا	Solderability	Per EIAJ-S						
		Soldering Conditions	+240°C ma	<u>.x. for 10 set</u>	CS.				

2. Symmetry is measured at 1.4 V with TTL load, and at 50% Vdd with HCMOS load.

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