K1528D Series 14 DIP, 5.0 Volt, CMOS, VCXO

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.250 [6.35] TYP.

- .018 [0.46] DIA. TYP. - .300 [7.62] TYP.

> .520 [13.208] MAX

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.335 [8.51] MAX.

.820 [20.828] MAX.

OPTIONAL 6-PIN PACKAGE

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WITH TRISTATE

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Pin Connections

FUNCTION Voltage Control

Output +Vdd

Ground/Case Ground

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PIN

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- .200 [5.08] TYP.

.600 [15.24] TYP. All dimensions in inches [mm].

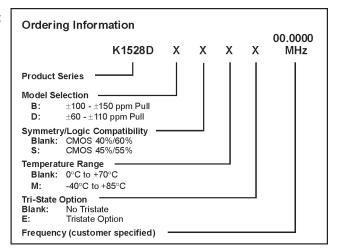


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- Former Champion Product
- Phase-Locked Loops (PLL's), Clock Recovery, Reference Signal Tracking, Synthesizers, Frequency Modulation/ Demodulation



	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes
Electrical Specifications	Frequency Range	F	35		105	MHz	
	Operating Temperature	TA	(See Ordering Information)				
	Storage Temperature	Ts	-40		+125	°C	
	Frequency Stability	∆F/F					
	Overall		Inclusive of Calibration, Temperature, Voltage, Load, and Aging			ure,	
	0°C to +70°C				±25	ppm	
	-40°C to +85°C				± 50	ppm	
	Aging						
	1st Year		-5		+5	ppm	
	Thereafter (per year)		-2		+2	ppm	
	Pullability/APR		(See Ordering Information)				
	Control Voltage	Vc	0.5	2.5	4.5	V	
	Linearity				15	%	Positive Monotonic Slope
	Modulation Bandwidth	fm	20			kHz	±3dB
	Input Impedance	Zin	50k			Ohms	@ 10 kHz
	Input Voltage	Vdd	4.75	5.0	5.25	V	
	Input Current	ldd			40	mA	
	Output Type						HCMOS/TTL
	Load		5 TTL or 15 pF HCMOS				See Note 1
	Symmetry (Duty Cycle)		(See Ordering Information)				See Note 2
	Logic "1" Level	Voh	4.5			V	
	Logic "0" Level	Vol			0.5	V	
	Output Current				±16	mA	
	Rise/Fall Time	Tr/Tf			4	ns	
	Start up Time				10	ms	
	Phase Jitter @ 40 MHz	φJ		2		ps RMS	Integrated 12 kHz - 20 MHz
	Phase Noise (Typical)	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	Offset from carrier
	@ 40 MHz	-65	-95	-115	-120	-140	dBc/Hz

1. TTL load - see load circuit diagram #1 on page 116. HCMOS load - see load circuit diagram #2 on page 116.

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

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