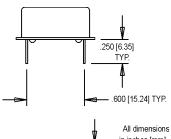
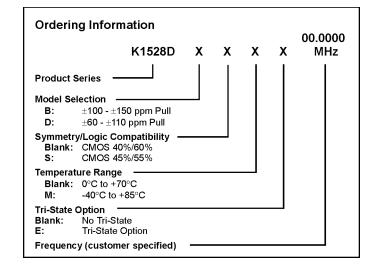
## K1528D Series 14 DIP, 5.0 Volt, CMOS, VCXO

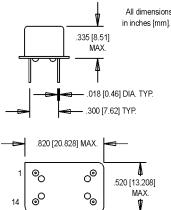




- Former Champion Product
- Phase-Locked Loops (PLL's), Clock Recovery, Reference Signal Tracking, Synthesizers, Frequency Modulation/ Demodulation







WITH TRISTATE									
	>		.200 [	5.08] TYP.					
1	ಿ	0	°						
14	ಿ	0	್ಥ						

OPTIONAL 6-PIN PACKAGE

## **Pin Connections**

PIN	FUNCTION	
1	Voltage Control	
7	Ground/Case Ground	
8	Output	
14	+Vdd	

	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition
1 1	Frequency Range	F	35		105	MHz	
	Frequency Stability:	∆F/F					
	Overall		Inclusive of Calibration, Temperature, Voltage, Load, and Aging				
	0°C to +70°C				±25	ppm	
"	-40°C to +85°C				±50	ppm	
Electrical Specifications	Pullability		(See Ordering Information)				
cat	Linearity				15	%	
ا قِا ا	Modulation Bandwidth	fm	>20			kHz	±3dB
Spe	Control Voltage	Vc	0.5	2.5	4.5	V	
cal	Transfer Function		Positive				
ctri	Input Impedance		>50KΩ				@ 10 kHz
Ë	Operating Temperature	TA	-40		+85	°C	
	Storage Temperature	Ts	-40		+125	°C	
	Input Voltage	Vdd	4.75	5.0	5.25	٧	
	Input Current	ldd			40	mA	
	Symmetry (Duty Cycle)		(See Ordering Information)		%		
	Start up Time				10	ms	
	Phase Noise (Typical)	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	Offset from carrier
		-65	-95	-120	-140	-150	
	Temperature Cycle	MIL-STD-883, Method 1010, Condition B			ondition B	-55°C to +125°C; Air-toAir; 100 cycles; 10 min. dwell	
	Mechanical Shock	MIL-STD-883, Method 2002, Condition B			ondition B	1500 g's	
	Vibration	MIL-STD-883, Method 2007, Condition B			ondition B	20-2000 Hz; 0.06 inch; 15 g's; 3 planes	
tal .	Humidity Steady State	MIL-STD-202, Method 103				40°C; 90%-95% R.H.; 56 days	
mer	Thermal Shock	MIL-STD-883, Method 1011.7, Cond. B				100°C to 0°C; Water-to-Water; 15 cycles	
l o	Electrostatic Discharge	MIL-STD-883, Method 3015, Class II				2 KV to 4 KV Threshold	
Environmental	Solderability	MIL-STD-883, Method 2022.2				Solder dip; Meniscograph Criteria	
m	Hermeticity	MIL-STD-883, Method 1014.8, Cond. A1				Mass spectro. 2 x 10-8 atoms. CC/sec He	
	Resistance to Soldering	See Page 147					
	Lead Integrity	MIL-STD-883, Mtd. 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	

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