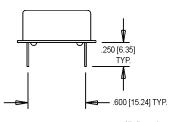
K1528D Series 14 pin DIP, 5.0 Volt, CMOS, VCXO

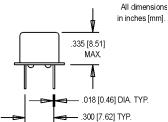


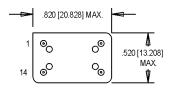




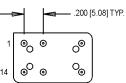
- Former Champion product
- Phase-Locked Loops (PLL's), Clock Recovery, Reference Signal Tracking, Synthesizers, Frequency Modulation/Demodulation





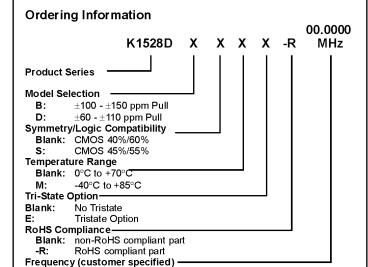






Pin Connections

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



Г	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes		
	Frequency Range	F	35	.,,,,,	85	MHz			
	Operating Temperature	T _A	(See ordering information)						
	Storage Temperature	T _S	-40	Jing iiiic	+125	°C			
	Frequency Stability	ΔF/F							
	Overall	Δ171	Inclusive of Calibration, Temperatu			nerature			
	O voi un		Voltage, Load, and Aging			iporataro,			
Specifications	0°C to 70°C			,	±25	ppm			
	-40°C to +85°C				±50	ppm			
	Aging					I			
	1 st Year		-5		+5	ppm			
	Thereafter (per year)		-2		+2	ppm			
atic	Pullability/APR		(See ordering information)			<u> </u>			
Ęį	Control Voltage	Vc	0.5	2.5	4.5	V			
ec	Linearity				15	%	Positive Monotonic Slope		
S	Modulation Bandwidth	fm	20			kHz	±3dB		
Electrical	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)						
	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	ÖJ		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		
-	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 mS duration, ½ sinewave)							
ent	Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)							
Environmental	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) Per EIAJ-STD-002							
١٤	Solderability								
Ш	Soldering Conditions	Soldering Conditions +240°C max. for 10 secs.							

- 1. TTL load see load circuit diagrams #1 and #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.