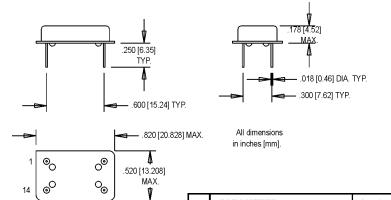
## K1525C Series 14 DIP, 5.0 Volt, CMOS/TTL, VCXO





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

**PARAMETER** 



0.40111	g Information				00.0000
	K1525C	Х	Х	Х	MHz
Product S	Series —				
Model Sel	lection ———				
A:	$\pm 100$ - $\pm 150$ ppm Pull				
D:	$\pm 80$ - $\pm 120$ ppm Pull				
Temperat	ure Range ———				
Blank:	0°C to +70°C				
M:	-40°C to +85°C				
Blank:	//Logic Compatibility TTL/CMOS 40%/60% CMOS 45%/55%				
T:	TTL 45%/55%				

Condition

## **Pin Connections**

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

	Frequency Range	F	2		55	MHz		
	Frequency Stability:	∆F/F						
	Overall		Inclusive of Calibration, Tempera Voltage, Load, and Aging					
	0°C to +70°C				±25	ppm		
"	-40°C to +85°C				±50	ppm		
Electrical Specifications	Pullability		(See Ordering Information)					
	Linearity				10	%		
	Modulation Bandwidth	fm	>20			kHz	±3dB	
Spe	Control Voltage	Vc	0.5	2.5	4.5	٧		
cal	Transfer Function		Positive					
<u>‡</u>	Input Impedance		>50KΩ				@ 10 kHz	
E E	Operating Temperature	TA	-40		+85	°C		
	Storage Temperature	Ts	-40		+125	°C		
	Input Voltage	Vdd	4.5	5.0	5.5	V		
	Input Current	ldd			26	mA		
	Symmetry (Duty Cycle)		40		60	%	CMOS/TTL	
	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				-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		
Environmental	Vibration	MIL-STD-883, Method 2007, Condition B			ondition B	20-2000 Hz; 0.06 inch; 15 g's; 3 planes		
	Humidity Steady State	MIL-STD-202, Method 103				40°C; 90%-95% R.H.; 56 days		
	Thermal Shock	MIL-STD-883, Method 1011.7, Cond. B				100°C to 0°C; Water-to-Water; 15 cycles		
	Electrostatic Discharge	MIL-STD-883, Method 3015, Class II				2 KV to 4 KV Threshold		
	Solderability	MIL-STD-883, Method 2022.2				Solder dip; Meniscograph Criteria		
	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		

M-tron 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. No rights under any patent accompany the sale of such product.

Symbol

Min.

Мах.

Тур.

Units