K1525C Series

14 pin DIP, 5.0 Volt, CMOS/TTL, VCXO

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

Ordering Information

K1525C X X X -R 00.0000 MHz

Product Series

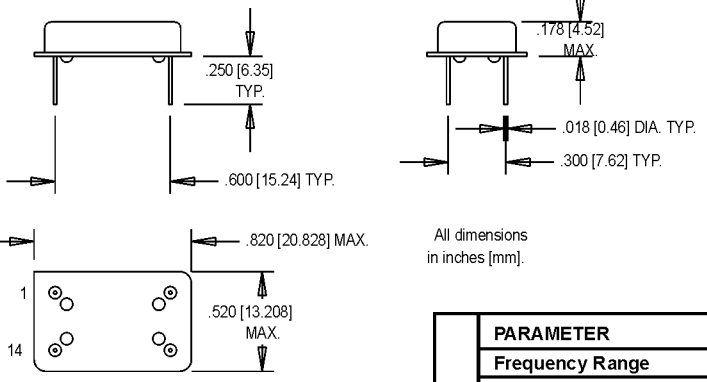
Model Selection
- **A:** ±100 - ±150 ppm Pull
- **D:** ±80 - ±120 ppm Pull

Temperature Range
- **Blank:** 0°C to +70°C
- **M:** -40°C to +85°C

Symmetry/Logic Compatibility
- **Blank:** TTL/CMOS 40%/60%
- **C:** CMOS 45%/55%
- **T:** TTL 45%/55%

RoHS Compliance
- **Blank:** non-RoHS compliant part
- **-R:** RoHS compliant part

Frequency (customer specified)



All dimensions in inches [mm].

Pin Connections

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

Electrical Specifications

PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition/Notes
Frequency Range	F	2		55	MHz	
Operating Temperature	T_A	(See Ordering Information)				
Storage Temperature	Ts	-40		+125	°C	
Frequency Stability	ΔF/F					
Overall		Inclusive of Calibration, Temperature, Voltage, Load, and Aging				
0°C to +70°C				±25	ppm	
-40°C to +85°C				±50	ppm	
Aging						
1st Year		-3		+3	ppm	
Thereafter (per year)		-1		+1	ppm	
Pullability/APR		(See Ordering Information)				
Control Voltage	Vc	0.5	2.5	4.5	V	
Linearity				10	%	Positive Monotonic Slope
Modulation Bandwidth	fm	20			kHz	±3dB
Input Impedance	Zin	50k			Ohms	@ 10 kHz
Input Voltage	Vdd	4.5	5.0	5.5	V	
Input Current	Idd			26	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@ 26 MHz	ϕ J		4		ps RMS	Integrated 12 kHz - 20 MHz
Phase Noise (Typical)	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	Offset from carrier
@ 26 MHz	-65	-95	-120	-130	-140	dBc/Hz

1. TTL load - see load circuit diagram #1. HCMOS load - see load circuit diagram #2.