

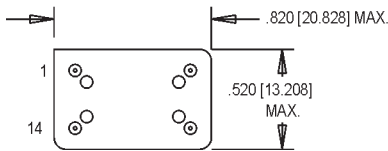
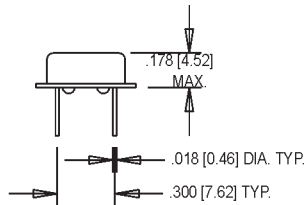
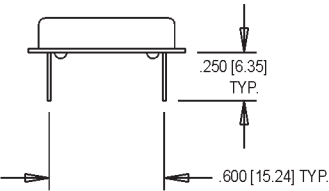
K1525C Series

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

**THIS PRODUCT IS NOT RECOMMENDED FOR NEW DESIGNS.
PLEASE REFER TO THE MV PRODUCT SERIES.**



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



All dimensions in inches [mm].

Pin Connections

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

Ordering Information

Product Series	K1525C	X	X	X	-R	00.0000	MHz
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)							

PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition/Notes
Frequency Range	F	2		55	MHz	
Operating Temperature	T _A	(See Ordering Information)				
Storage Temperature	T _s	-40		+125	°C	
Frequency Stability Overall	ΔF/F	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	V _c	0.5	2.5	4.5	V	
Linearity				10	%	Positive Monotonic Slope
Modulation Bandwidth	f _m	20			kHz	±3dB
Input Impedance	Z _{in}	50k			Ohms	@ 10 kHz
Input Voltage	V _{dd}	4.5	5.0	5.5	V	
Input Current	I _{dd}			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	V _{oh}	4.5			V	
Logic "0" Level	V _{ol}			0.5	V	
Output Current				±16	mA	
Rise/Fall Time	T _r /T _f			4	ns	
Start up Time				10	ms	
Phase Jitter@ 26 MHz	φ _J		4		ps RMS	Integrated 12 kHz - 20 MHz
Phase Noise (Typical) @ 26 MHz		100 Hz	1 kHz	10 kHz	100 kHz	Offset from carrier dBc/Hz
		-65	-95	-120	-130	-140

1. TTL load - see load circuit diagram #1. HCMOS load - see load circuit diagram #2.2
2. Maximum Wave Soldering Conditions: +260 °C for 10 secs.

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