K1525C Series

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



00.0000

MHz

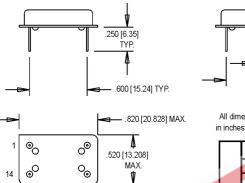
-R

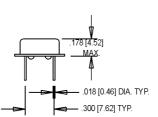
THIS PRODUCT IS NOT RECOMMENDED FOR NEW DESIGNS. PLEASE REFER TO THE MV3 or MV5 PRODUCT SERIES.





- hampion 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			

	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes
	Frequency Range	F	2		55	MHz	
	Operating Temperature	TA	(See Ordering Information)				
	Storage Temperature	Ts	-40		+125	°C	
- 1	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	
	Aging						
tions	1st Year		-3		+3	ppm	
	Thereafter (per year)		-1		+1	ppm	
fica	Pullability/APR		(See Ordering Information)				
Electrical Specifications	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
ū	Input Voltage	Vdd	4.5	5.0	5.5	V	
	Input Current	ldd			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	φJ		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

Ordering Information

Product Series Model Selection

Temperature Range

RoHS Compliance

Blank: 0°C to +70°C M: -40°C to +85°C
Symmetry/Logic CompatibilityBlank: TTL/CMOS 40%/60%

D:

K1525C

 ± 100 - ± 150 ppm Pull ±80 - ±120 ppm Pull

CMOS 45%/55% TTL 45%/55%

Blank: non-RoHS compliant part RoHS compliant part

Frequency (customer specified)

Χ Χ Χ

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.

^{1.} TTL load - see load circuit diagram #1. HCMOS load - see load circuit diagram #2.



MtronPTI Lead Free Solder Profile

240°C All the remaining surface mount, both crystal and oscillator.

