

K1603T Series

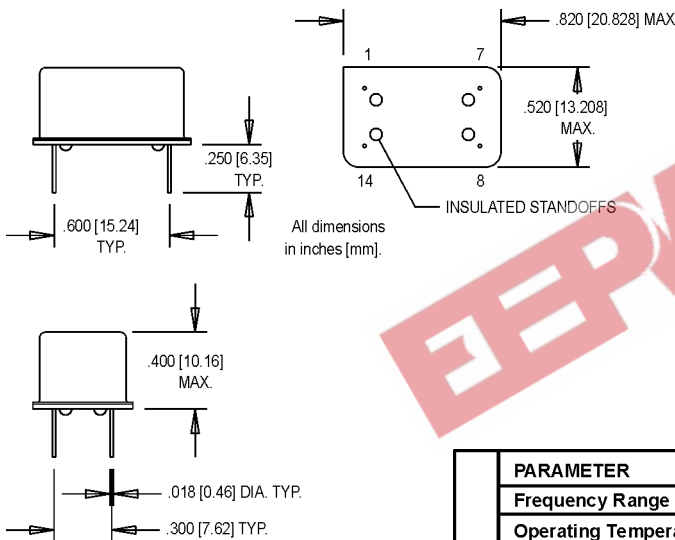
14 pin DIP, 5.0 Volt, CMOS/TTL, VCXO



Ordering Information

Product Series	K1603T	-R	00.0000
RoHS Compliance			MHz
Blank:	non-RoHS compliant part		
-R:	RoHS compliant part		
Frequency (customer specified)			

- Former **Champion** TECHNOLOGIES, INC. Product
- Clocking "Sync" to NTSC Video Standards, Reference Signal, Signal Tracking
- Stratum 3 Compliant



Pin Connections

PIN	FUNCTION
1	N/C
7	Ground/Case Ground
8	Output
14	+Vdd

PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition/Notes	
Frequency Range	F	2		30	MHz		
Operating Temperature	T _A	-40		+85	°C		
Storage Temperature	T _s	-40		+85	°C		
Frequency Stability	ΔF/F			±4.6	ppm		
Aging (10 Year)		-2		+2	ppm		
Input Voltage	V _{dd}	4.75	5.0	5.25	V		
Input Current	I _{dd}			20	mA		
Output Type						HCMOS/TTL	
Load		5 TTL or 15 pF HCMOS				See Note 1	
Symmetry (Duty Cycle)						See Note 2	
<14 MHz		45		55	%		
≥14 MHz		40		60	%		
Logic "1" Level	V _{oh}	4.5			V		
Logic "0" Level	V _{ol}			0.5	V		
Rise Time	T _r		3.5	9.0	ns		
Fall Time	T _f		2.0	8.0	ns		
Start up Time				10	ms		
Phase Noise (Typical)						Offset from carrier	
@ 20 MHz		10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	
		-80	-108	-125	-132	-155	dBc/Hz

1. TTL load - see load circuit diagram #1. HCMOS load - see load circuit diagram #2.
2. Symmetry is measured at 1.4 V with TTL load, and at 50% V_{dd} 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.

Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.