

# K1603T Series

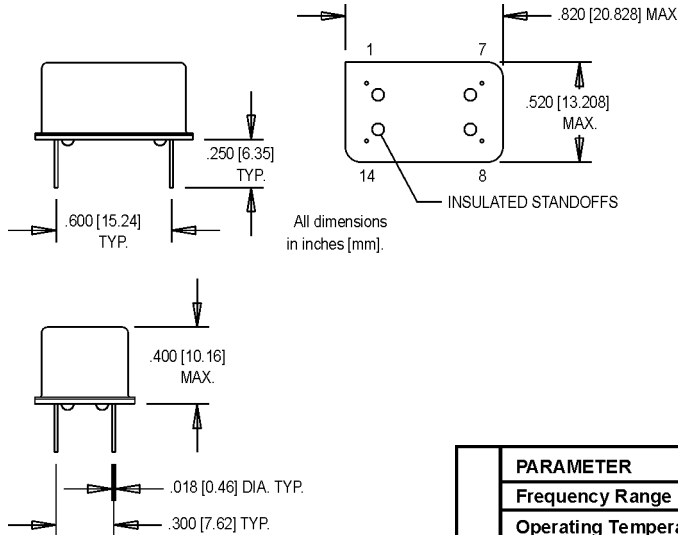
## 14 pin DIP, 5.0 Volt, CMOS/TTL, VCXO



### Ordering Information

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

- 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

Electrical Specifications	PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition/Notes
	Frequency Range	F	2		30	MHz	
	Operating Temperature	T <sub>A</sub>	-40		+85	°C	
	Storage Temperature	T <sub>S</sub>	-40		+85	°C	
	Frequency Stability	ΔF/F			±4.6	ppm	
	Aging (10 Year)		-2		+2	ppm	
	Input Voltage	V <sub>dd</sub>	4.75	5.0	5.25	V	
	Input Current	I <sub>dd</sub>			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 <sub>oh</sub>	4.5			V	
	Logic "0" Level	V <sub>ol</sub>			0.5	V	
	Rise Time	T <sub>r</sub>		3.5	9.0	ns	
Fall Time	T <sub>f</sub>		2.0	8.0	ns		
Start up Time				10	ms		
Phase Noise (Typical) @ 20 MHz		10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	Offset from carrier dBc/Hz
		-80	-108	-125	-132	-155	

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<sub>dd</sub> with HCMOS load.

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# MtronPTI Lead Free Solder Profile

