

K1603T Series

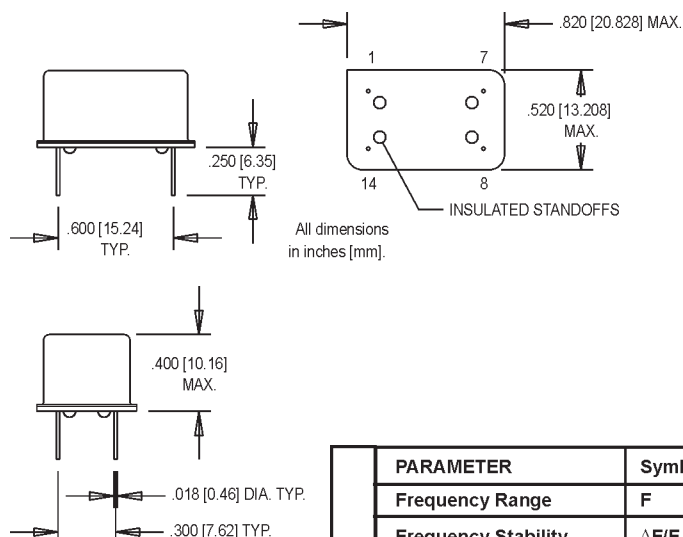
14 DIP, 5.0 Volt, CMOS/TTL, TCXO



- Former **Champion Technologies, Inc.** Product
- Clocking "Sync" to NTSC Video Standards, Reference Signal, Signal Tracking

Ordering Information

Product Series **K1603T** Frequency (customer specified) **00.0000 MHz**



Pin Connections

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

	PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition
Electrical Specifications	Frequency Range	F	2		30	MHz	
	Frequency Stability	$\Delta F/F$					
	Overall				± 4.6	ppm	
	25°C Calibration			± 0.6		ppm	
	-40°C to +85°C			± 2.0		ppm	
	Aging 10 years			± 2.0		ppm	
	Operating Temperature	T _A	-40		+85	°C	
	Storage Temperature	T _S	-40		+85	°C	
	Input Voltage	V _{dd}	4.75	5.0	5.25	V	
	Input Current	I _{dd}			20	mA	
	Symmetry (Duty Cycle)		45		55	%	<14 Mhz
			40		60	%	≥14 Mhz
	Rise Time	T _r		3.5	9.0	ns	
	Fall Time	T _f		2.0	8.0	ns	
	Logic "1" Level	V _{oh}	4.5			V	
Environmental	Logic "0" Level	V _{ol}		0.5		V	
	Start up Time				10	ms	
	Temperature Cycle	MIL-STD-883, Method 1010, Condition B				-55°C to +125°C; Air-to-Air; 100 cycles; 10 min. dwell	
	Mechanical Shock	MIL-STD-883, Method 2002, Condition B				1500 g's	
	Vibration	MIL-STD-883, Method 2007, Condition B				20-2000 Hz; 0.06 inch; 15 g's; 3 planes	
	Humidity Steady State	MIL-STD-202, Method 103				40°C; 90%-95% R.H.; 56 days	
	Thermal Shock	MIL-STD-883, Method 1011.7, Condition B				100°C to 0°C; Water-to-Water; 15 cycles	
	Electrostatic Discharge	MIL-STD-883, Method 3015, Class II				2 KV to 4 KV Threshold	
	Solderability	MIL-STD-883, Method 2022.2				Solder dip; Meniscograph Criteria	
	Hermeticity	MIL-STD-883, Method 1014.8, Condition A1				Mass spectro. 2 x 10 ⁻⁸ atoms. CC/sec He	
	Resistance to Soldering	See Page 147					
	Lead Integrity	MIL-STD-883, Method 2004.5, Cond. A,B1				Lead tension & bend stress	
	Marking Permanence	MIL-STD-883, Method 2015.8				Resistance to solvents	
	Life Test	MIL-STD-883, Method 1005.6				125°C, powered, 1000 hours minimum	

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