K1603TE Series
14 pin DIP, 5.0 Volt, CMOS/TTL, TCXO

RoHS Compliant

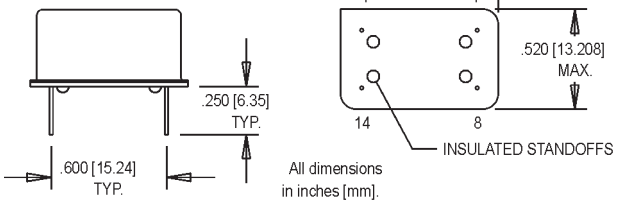
Ordering Information

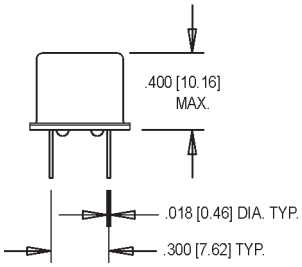
K1603TE -R 00.0000 MHz

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

- Former Champion TECHNOLOGIES, INC. Product
- Clocking "Sync" to NTSC Video Standards,
- Stratu... Co...ant

OBSOLETE





Pin Connections

PIN	FUNCTION
1	Tristate
7	Ground/Case Gnd
8	Output
14	+Vdd

	PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition/Notes
Electrical Specifications	Frequency Range	F	2		30	MHz	
	Operating Temperature	T_A	-40		+85	°C	
	Storage Temperature	T_S	-40		+85	°C	
	Frequency Stability	ÄF/F			±4.6	ppm	
	Aging (10 Year)		-2		+2	ppm	
	Input Voltage	Vdd	4.75	5.0	5.25	V	
	Input Current	Idd			20	mA	
	Output Type						HCMOS/TTL
	Load		5 TTL or 15 pF HCMOS max.				See Note 1
	Symmetry (Duty Cycle)						See Note 2
	< 14 MHz		45		55	%	
	≥ 14 MHz		40		60	%	
	Logic "1" Level	Voh	4.5			V	
	Logic "0" Level	Vol			0.5	V	
	Rise Time	Tr		3.5	9.0	ns	
	Fall Time	Tf		2.0	8.0	ns	
	Tristate Function		Input Logic "1" or N/C: output active Input Logic "0": output disables to high-Z				
	Start Up Time				10	ms	
	Phase Noise (typical)	**10 Hz**	**100 Hz**	**1 kHz**	**10 kHz**	**100 kHz**	**Offset from carrier**
	@ 20 MHz	-80	-108	-125	-132	-155	dBc/Hz
Environmental	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 mS duration, ½ sinewave)					
	Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)					
	Hermeticity	Per MIL-STD-202, Method 112, (1x10-8 atm. cc/s of Helium)					
	Thermal Cycle	Per MIL-STD-883, Method 1010, Condition B (-55°C to +125°C, 15 min. dwell, 10 cycles)					
	Solderability	Per EIAJ-STD-002					
	Max Wave Soldering Conditions	See solder profile, Figure 2					

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% Vdd with HCMOS load.