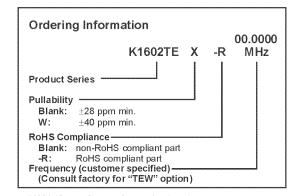
K1602TE Series 14 pin DIP, 5.0 Volt, CMOS/TTL, TCVCXO





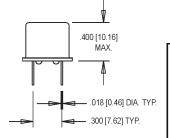


- Former Champion Product
- Phase-Locked Loops Clocking "Sync" to NTSC Video Standards, Reference Signal, Signal Tracking



M6034Sxxx - Contact factory for datasheet.





Pin Connections

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

	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes	
Electrical Specifications	Frequency Range	F	2.0 to 35.0, 38.88 to 40.0		MHz			
	Operating Temperature	TA	-40		+85	°C		
	Storage Temperature	Ts	-40		+85	°C		
	Frequency Stability	ÄF/F			±7.0	ppm	See Note 1	
	Aging (10 Year)		-2		+2	ppm		
	Control Voltage	Vc	0.5	2.5	4.5	V	Positive Monotonic Slope	
	Tuning Range		±28 ("TEW" model ±40)		ppm	See Ordering Information		
	Modulation Bandwidth	fm	20			kHz	±3dB	
	Input Impedance	Zin	50k			Ohms	@ 10 kHz	
	Input Voltage	Vdd	4.75	5.0	5.25	V		
	Input Current	ldd			20	mA		
	Output Type						HCMOS/TTL	
	Load		5 TTL or 15 pF HCMOS max.			S max.	See Note 2	
	Symmetry (Duty Cycle)						See Note 3	
	< 14 M Hz		45		55	%		
	≥ 14 M Hz		40		60	%		
	Logic "1" Level	Voh	4.5			V		
	Logic "0" Level	Vol			0.5	V		
	Rise/Fall Time	Tr/Tf		3.5	9.0	ns		
	Start Up Time				20	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	
-	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 mS duration, ½ sinewave)						
ınt	Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)						
Environmental	Hermeticity	Per MIL-STD-202, Method 112, (1x10-8 atm. cc/s of Helium)						
ō	Thermal Cycle	Per MIL-STD-883, Method 1010, Condition B (-55°C to +125°C, 15 min. dwell, 10 cycles)						
2	Solderability	Per EIAJ-STD-002						
ш	Max Wave Soldering Conditions	See solder profile, Figure 2						

- 1. Inclusive of calibration, temperature, voltage, load and aging.
- 2. TTL Load see load circuit diagram #1. HCMOS load see load circuit diagram #2.
- 3. Symmetry is measured at 1.4 V with TTL load, and at 50% Vdd 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.