K1602T Series 14 DIP, 5.0 Volt, CMOS/TTL, TCXO





TRIMMER HOLE



Former Champion Product

0.229 (5.82) NOM

0.250 (6.35)

NOM

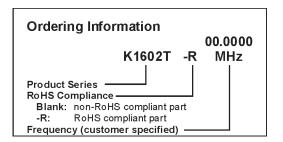
Phase-Locked Loops, SONET, Reference Signal, Signal Tracking, ATM

0.300

(7.62) NOM

All dimensions in inches (mm)

0.184 (4.67) NOM





0.400 (10.16)

MAX

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

1	0.820 (20.83) MAX		7
	©	ੰ	0.520
	°°	Po	(13.21) MAX
14			8

0.600(15.24) NOM

∠INSULATED STANDOFFS

	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes	
	Frequency Range	F	2		30	MHz		
	Operating Temperature	TA	-40		+85	°C		
	Storage Temperature	Ts	-40		+85	°C		
	Initial Calibration		-1.5		+1.5	ppm	See Note 1	
	Stability vs. Temperature		-2.0		+2.0	ppm		
S	Aging (10 Year)		-2		+2	ppm		
5	Manual Adjusted Tuning Range		-5		+5	ppm		
ä	Input Voltage	Vdd	4.75	5.0	5.25	V		
lĔ	Input Current	ldd			20	mA		
Specifications	Output Type						HCMOS/TTL	
	Load		5 TTL or 15 pF HCMOS			See Note 2		
g	Symmetry (Duty Cycle)						See Note 3	
Ē	< 14 MHz		45		55	%		
Electrical	≥ 14 MHz		40		60	%		
۳.	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		
	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, 1/2 sinewave)						
anta	Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)						
Ē	Hermeticity	Per MIL-STD-202, Method 112, (1x10-8 atm. cc/s of Helium)						
Environmental	Thermal Cycle	Per MIL-STD-883, Method 1010, Condition B (-55°C to +125°C, 15 min. dwell, 10 cycles)						
ž	Solderability	Per EIAJ-STD-002						
ш	Soldering Conditions	+240°C max. for 10 secs.						

1. Initial Calibration guaranteed at time of shipment.

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.

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