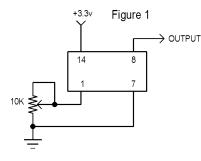
## XO5164 Series 14 pin DIP, 3.3 Volt, HCMOS, OCXO

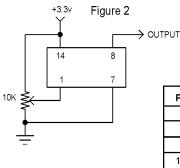


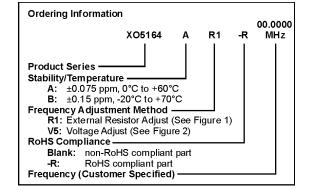




- Standard DIP/DIL package offering tight stabilities, fast warm-up, and low current
- Ideal for PCS base stations, cellular base sta-
- tions, phase locking, and SAR/SAT applications
- 3.3V Operation



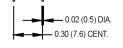


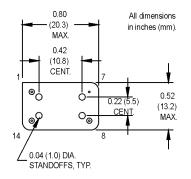


Pin Connections				
PIN	FUNCTION			
1	Frequency Adjust			
7	Case ground & supply return			
8	R.F. Output			
14	Supply (+)			

nostions

	0.04 (1.0) TYP.
0.60 (15.2) - CENT.	0.25 (6.4) TYP.
	0.30 (7.6) MAX.





	PARAMETER	Symbol	Min.	Max.	Units	Condition
Electrical Specifications	Frequency Range	F	10	20	MHz	
	Operating Temperature	TA	(See Ordering Information)		°C	
	Stability Over Temperature	∆F/F	(See Ordering Information)		ppm	
	Short Term Stability			5 x 10 <sup>-10</sup>		0.1 to 30 secs.
	Aging (First Year)			±0.7	ppm	
	Aging (10 Years)			±4.0	ppm	
	Frequency Vs. Supply			±0.1	ppm	
	Frequency Vs. Load			±0.01	ppm	
	Supply Voltage	Vcc	+3.15	+3.45	Volts	
	Warm-Up Time		To spec after 60 secs.			0°C
	Warm-Up Current			250	mA	After 10 secs.
	Supply Current	lcc		100	mA	+30°C
				160	mA	-20°C
	Output Signal		HCMOS Compatible			
	Rise/Fall Time	Tr/Tf		7	ns	Ref. 10% and 90%
	Logic "0" Level	Vol		0.4	Volts	
	Logic "1" Level	Voh	Vcc -0.5		Volts	
	Symmetry			40/60	%	Ref. To 1/2 Vcc
	Output Load			15 pf HCMOS		
				10 LS TTL		
	Frequency Adjustment (Pin 1)		± <b>4</b>		ppm	See Figure 1 or 2
	Tuning Slope		Positive			
	Input Impedance (Pin 1)		4.7K		ohms	
	Phase Noise					(BW = 1 Hz)
	1 Hz			-80	dBc/Hz	Offset from carrier
	10 Hz			-110	dBc/Hz	
	100 Hz			-135	dBc/Hz	
	1 kHz			-145	dBc/Hz	
tal	Mechanical Shock	2000 g, 0.3 mS, 1/2 sine				
Environmental	Vibration	2000 Hz,	) Hz, 10 g			
	Storage Temperature	-55°C to -	5°C to +125°C			
	Hermeticity	Per MIL-STD-202, Method 112				
En	Solderability	EIAJ-STD-002				

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.

Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.