XO5164 Series

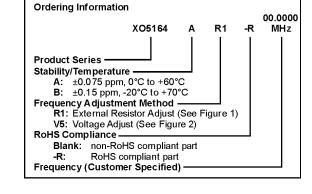
14 pin DIP, 3.3 Volt, HCMOS, OCXO

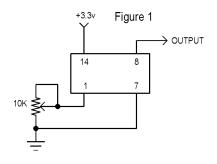


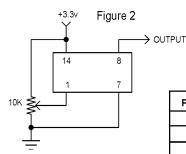




- Standard DIP/DIL package offering tight stabilities, fast warm-up, and low current
- Ideal for PCS base stations, cellular base stations, phase locking, and SAR/SAT applications
- 3.3V Operation

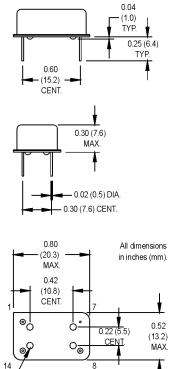






Pin Connections

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



O.04 (1.0) DIA.
STANDOFFS, TYP.

	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 ⁻¹⁰		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)		± 4		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		
Environmental	Mechanical Shock		2000 g, 0.3 mS, 1/2 sine				
	Vibration	2000 Hz, 10 g					
	Storage Temperature	-55°C to +125°C					
	Hermeticity	Per MIL-STD-202, Method 112					
ΔÜ	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.