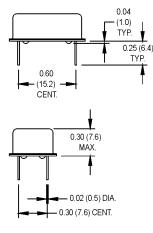
XO5161 Series 14 pin DIP, 12.0 Volt, HCMOS/TTL, OCXO

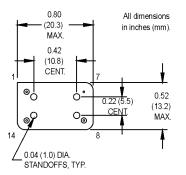






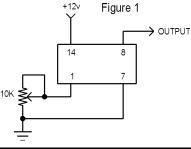
- Standard DIP/DIL package (20.3 x 13.2 x 7.6 mm) offering tight stabilities, fast warm-up, and low current
 Ideal for PCS base stations, cellular base stations,
- phase locking, and SAR/SAT applications

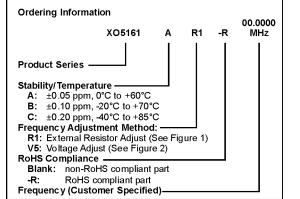


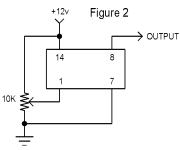


Pin Connections

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







Electrical Specifications	PARAMETER	Symbol	Min.	Max.	Units	Condition		
	Frequency Range	F	10	20	MHz			
	Operating Temperature	Та	(See Ordering Information)		°C			
	Stability Over Temperature	$\Delta F/F$	(See Ordering Information)		ppm			
	Short Term Stability			5 x 10 ⁻¹¹		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	+11.5	+12.5	Volts			
	Warm-Up Time		To spec after 30 secs.			0°C		
	Warm-Up Current			250	mA	After 10 secs.		
	Supply Current	lcc		25	mA	+30°C		
				40	mA	-20°C		
	Output Signal		HCMOS/TTL 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	Sym		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			-60	dBc/Hz	Offset from carrier		
	10 Hz			-90	dBc/Hz			
	100 Hz			-120	dBc/Hz			
	1 kHz			-130	dBc/Hz			
Environmental	Mechanical Shock	ŷ	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						
Ш	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.