XO5161 Series

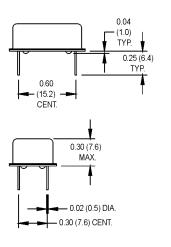
14 pin DIP, 12.0 Volt, HCMOS/TTL, OCXO

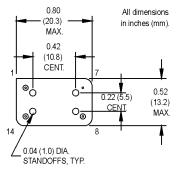






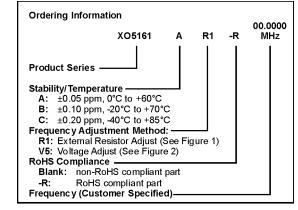
- Standard DIP/DIL package (20.3 x 13.2 x 7.6 mm) offering tight stabilities, fast warm-up, and low current
- Ideal for PCS base stations, cellular base stations, phase locking, and SAR/SAT applications

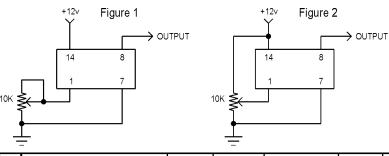




Pin Connections

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





	PARAMETER	Symbol	Min.	Max.	Units	Condition
	Frequency Range	F	10	20	MHz	
Electrical Specifications	Operating Temperature	TA	(See Ordering Information)		°C	
	Stability Over Temperature	∆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		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				
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.