### **XO5165 Series**

### 14 pin DIP, Stratum 3, 5.0 or 3.3 Volt, HCMOS, OCXO

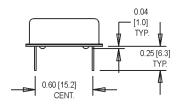


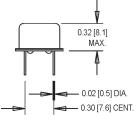


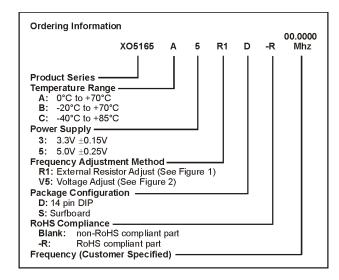


- Stratum 3 Application
- Standard DIP/DIL package offering tight stabilities, fast warm-up, and low current
- SMT Surfboard Option

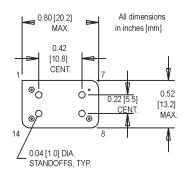
### **PTH Package**

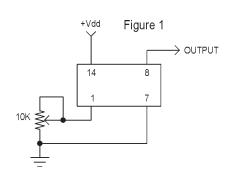




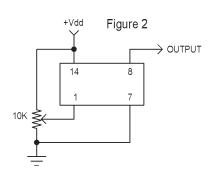


M7011Sxxx - Contact factory for datasheets.



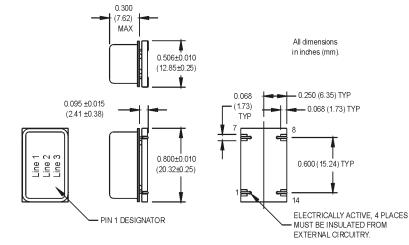


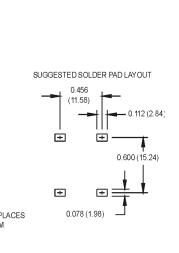
**SMTPackage** 



#### **Pin Connections**

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





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.

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	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition	
	Frequency Range	F	10		20	MHz		
	Operating Temperature	TA	(See Ordering Information)		nformation)	°C		
	Short Term Stability		5 x 10 <sup>-10</sup>				0.1 to 30 secs.	
	Holdover Stability				±0.28	ppm	24 hours	
	Overall Stability				±4.6	ppm	15 years	
	Supply Voltage	Vdd	(See C	rdering l	nformation)			
	Warm-Up Time		To spec after 30 secs.				0°C	
	Warm-Up Current				250	mA	During first 10 secs.	
۱,	Supply Current	ldd			70	mA	+30°C @ 5.0 V	
ü					110	mA	+30°C @ 3.3 V	
at:					110	mA	-20°C @ 5.0 V	
ij					160	mA	-20°C @ 3.3 V	
pecifications	Output Signal						HCMOS/TTL Compatible	
ഗ	Rise/Fall Time	Tr/Tf			7	ns	Ref. 10% and 90%	
Electrical	Logic "0" Level	Vol			0.4	Volts		
Ή	Logic "1" Level	Voh	Vdd - 0.5			Volts		
<u>e</u>	Symmetry	Sym			45/55	%	Ref. To ½ Vcc	
	Output Load				15 pf HCMOS 10 LS TTL			
	Frequency Adjustment (Pin 1)		±4		1020112	ppm	See Figure 1 or 2	
	Tuning Slope		Positive					
	Input Impedance (Pin 1)		4.7 K			ohms		
	Phase Noise						(BW = 1 Hz)	
	1 Hz			-70		dBc/Hz	Offset from carrier	
	10 Hz			-100		dBc/Hz		
	100 Hz			-130		dBc/Hz		
	1 kHz			-140		dBc/Hz		
a	Mechanical Shock	2000 g, 0.3 mS, ½ sine						
Environmental	Vibration	2000 Hz, 10 g						
Ĕ	Storage Temperature	-55°C to +125°C						
ľ	Hermeticity	Per MIL-STD-202, Method 112						
N	Solderability	EIAJ-STD-002						
Ш	Wax Coldoning Conditions	+245°C for 10 secs. Max. (DIP version only)						
	Max Soldering Conditions	Max Soldering Conditions +220°C for 10 secs. Max. (SMT version only)  MOS Load – see load circuit diagram #2.						

HCMOS Load – see load circuit diagram #2.

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