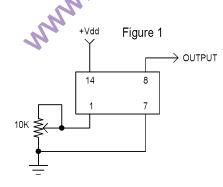
## MXO5165 Series 14 DIP, 5.0 or 3.3 Volt, HCMOS, OCXO

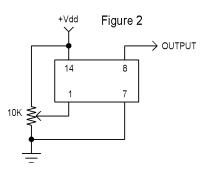


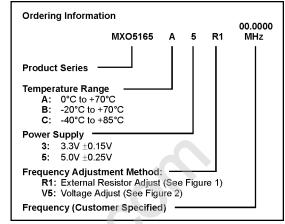


- Standard DIP/DIL package offering tight stabilities, fast warm-up, and low current
- Stratum 3 Application



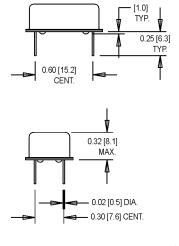
0.04

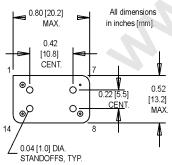




## **Pin Connections**

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





	DA DA METED	0	N. 42	84	1114	01141
	PARAMETER	Symbol	Min. 10	Max. 20	Units	Condition
	Frequency Range				MHz	
	Operating Temperature	TA	(See Ordering Information)		°C	244.00
	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 Ordering Information)			
	Warm-Up Time		To spec after 30 secs.			0°C
	Warm-Up Current			250	mA	During first 10 secs.
	Supply Current	ldd		70	mA	+30°C @ 5.0V
Electrical Specifications				110	mA	+30°C @ 3.3V
				110	mA	-20°C @ 5.0V
				160	mA	-20°C @ 3.3V
	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	Vdd - 0.5		Volts	
	Symmetry	Sym		45/55	%	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			-70	dBc/Hz	Offset from carrier
	10 Hz			-100	dBc/Hz	
	100 Hz			-130	dBc/Hz	01
	1 kHz			-140	dBc/Hz	
tal	Mechanical Shock	2000 g, 0.3 mS, 1/2 sine				
Environmental	Vibration	2000 Hz, 10 g				
	Storage Temperature	-55°C to +125°C			X	
	Hermeticity	Per MIL-STD-202, Method 112			50	
ᇤ	Solderability	EIAJ-STD-002				

M-tron 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. No rights under any patent accompany the sale of such product.