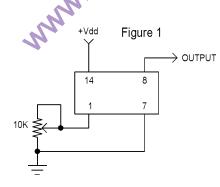
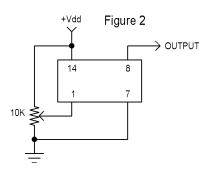
MXO5165 Series 14 DIP, 5.0 or 3.3 Volt, HCMOS, OCXO

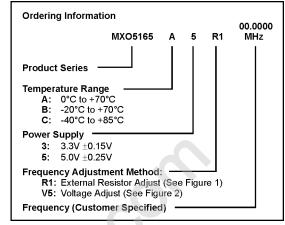




- Standard DIP/DIL package offering tight stabilities, fast warm-up, and low current
- Stratum 3 Application

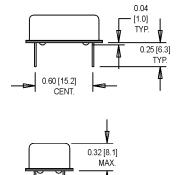


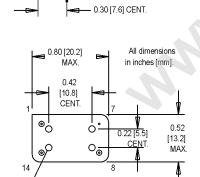




Pin Connections

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





0.04 [1.0] DIA. STANDOFFS, TYP.

0.02 [0.5] DIA.

	PARAMETER	Symbol	Min.	Max.	Units	Condition	
	Frequency Range	F	10	20	MHz		
	Operating Temperature	TA	(See Ordering Information)		°C		
	Short Term Stability		5 x 10 ⁻¹⁰			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	
suc				110	mA	+30°C @ 3.3V	
äţi				110	mA	-20°C @ 5.0V	
Electrical Specifications				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			C)	
	Input Impedance (Pin 1)		4.7K		ohms		
	Phase Noise				l	(BW = 1 Hz)	
	1 Hz			-70	dBc/Hz	Offset from carrier	
Environmental	10 Hz			-100	dBc/Hz	-(2)	
	100 Hz			-130	dBc/Hz		
	1 kHz		2 0 1/2	-140	dBc/Hz		
	Mechanical Shock Vibration	2000 g, 0.3 mS, 1/2 sine 2000 Hz, 10 g)	
	Storage Temperature	-55°C to +125°C			- x2		
	Hermeticity	Per MIL-STD-202, Method 112					
	Solderability	EIAJ-STD-002			YU		
ш_	Solderability LIA0-01D-002						

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