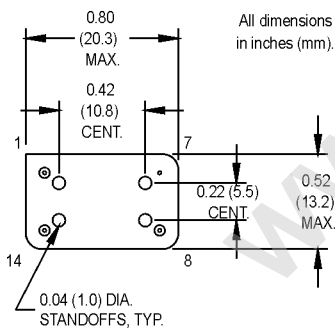
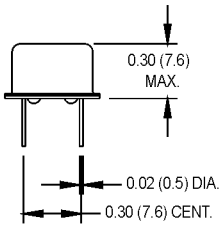
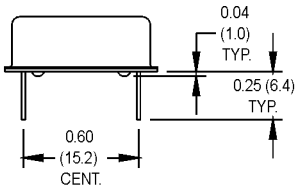
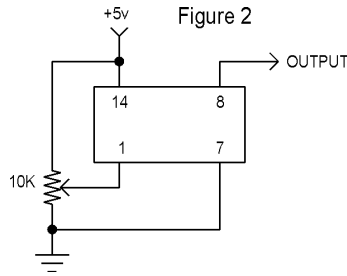
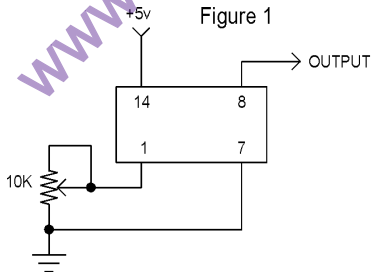
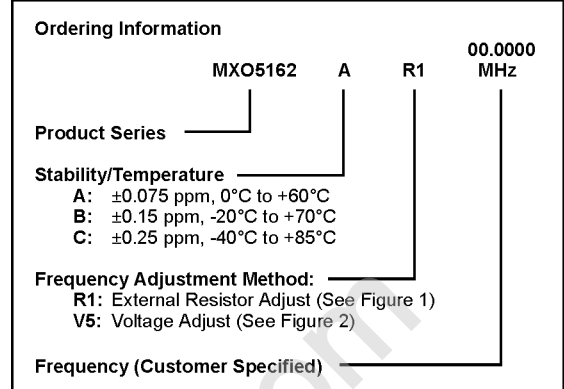


MXO5162 Series

14 DIP, 5.0 Volt, Sinewave, OCXO



- Standard DIP/DIL package offering tight stabilities, fast warm-up, and low current
- Ideal for PCS base stations, cellular base stations, phase locking, and SAR/SAT applications
- 5V Operation



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	
Operating Temperature	T _A	(See Ordering Information)		$^{\circ}\text{C}$	
Stability Over Temperature	$\Delta F/F$	(See Ordering Information)		ppm	
Short Term Stability			5×10^{-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	V _{cc}	+4.8	+5.2	Volts	
Warm-Up Time		To spec after 30 secs.			0°C
Warm-Up Current			250	mA	After 10 secs.
Supply Current	I _{cc}		70	mA	$+30^{\circ}\text{C}$
			110	mA	-20°C
Output Signal		Sinewave			
Output Level		1	2	V pk-pk	
Harmonics		-10		dBc	
Spurious Modes		-70		dBc	
Output Load			1K 5 pF		+10%
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) Offset from carrier
1 Hz			-80	dBc/Hz	
10 Hz			-110	dBc/Hz	
100 Hz			-135	dBc/Hz	
1 kHz			-145	dBc/Hz	
10 kHz			-150	dBc/Hz	
Mechanical Shock		2000 g, 0.3 ms, 1/2 sine			
Vibration		2000 Hz, 10 g			
Storage Temperature		-55°C to $+125^{\circ}\text{C}$			
Hermeticity		Per MIL-STD-202, Method 112			
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.

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