CONNOR WINFIELD

AURORA, IL 60505
PHONE (630) 851-4722
FAX (630) 851-5040
www.conwin.com

CRYSTAL CONTROLLED OSCILLATORS

HIGH FREQUENCY VCXO OSCILLATORS

SPECIFICATIONS			HV61-*	HV62-*	HV63-*	HV64-*
Frequency Range			30MHz to 100MHz			
Frequency vs Temperature			±25ppm	±50ppm	±100ppm	±20ppm
Temperature Range			-40°C to +85°C			
Output	Waveform		HCMOS Squarewave			
	Voltage	Voh	4.5V Minimum			
		Vol	0.5V Maximum			
	Current	Ioh	-8mA (30 to 52MHz) , -16mA (52.1 to 100MHz)			
		Iol	8mA (30 to 52MHz) , 16mA (52.1 to 100MHz)			
	Duty Cycle		40/60 Maximum			
	Rise/Fall Time		3nS Maximum, 15pF Load			
	Jitter (RMS)		5pS Maximum over 10Hz to 20MHz bandwidth 1pS Maximum over 12KHz to 20MHz bandwidth			
	SSB Phase Noise (Typical)		-60dBc/Hz @ 10Hz , -140dBc/Hz @ 10KHz			
Frequency Control			* Deviation Code (add to model number)			
			100	(±50ppm Minimum)		
			150	(±75ppm Minimum)		
			160	(±80ppm Minimum)		
			200	(±100ppm Minimum) Not available above 70MHz		
			300	(±150ppm Minimum) Not available above 50MHz		
			Positive Transfer Characteristic			
	Control Voltage		0.5Vdc to 4.5Vdc			
	Center Frequency		2.5Vdc ±0.5Vdc			
	Monotonic Linearity		< ±10%			
	Input Impedance		⩾ 50K ohms			
	Modulation Bandwidth		⩾ 15KHz			
Supply Voltage			+5Vdc ±5%			
Supply Current			35mA Max <50MHz , 60mA Max <100MHz			
Package			All metal, hermetically sealed, welded package			
Option (add suffix)			S	Duty Cycle 45/55 Maximum		

WARNING! Do not insert oscillator into a hot circuit. Failure to comply will result in damage to oscillator.

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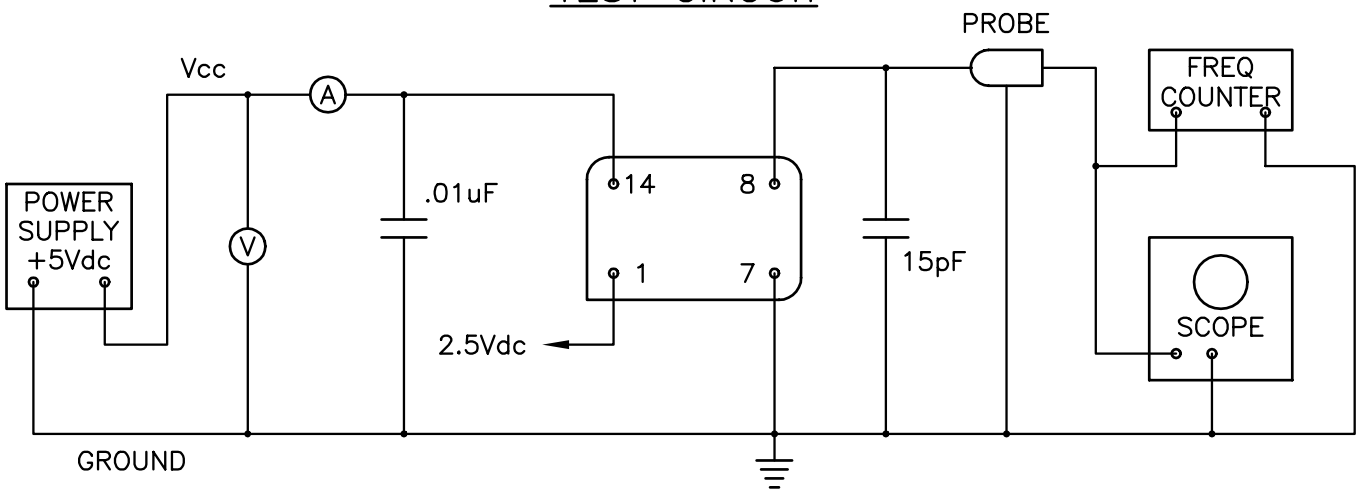
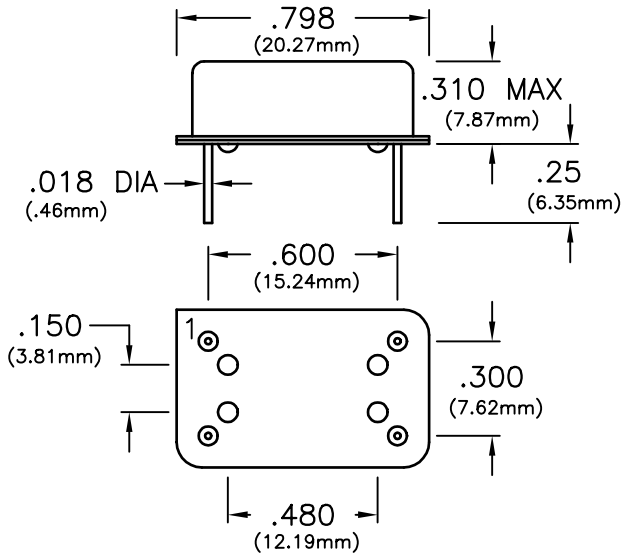
EXAMPLE MODEL NUMBER

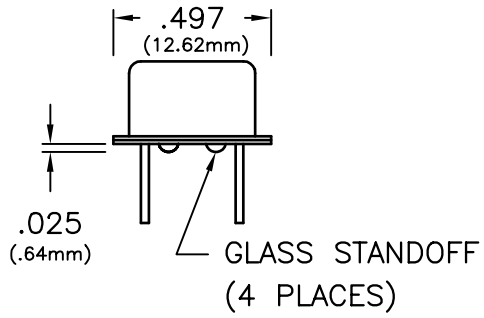
H V 6 3 – 1 0 0 / 4 4 . 7 3 6 M H z

- H V 6 3 — VCXO SERIES
- 1 0 0 — MINIMUM DEVIATION OF ±50ppm FROM 0.5 TO 4.5Vdc CONTROL VOLTAGE.
- 4 4 . 7 3 6 M H z — CENTER FREQUENCY

TEST CIRCUIT







PIN	CONNECTION
1	CONTROL VOLTAGE
7	GROUND (CASE)
8	OUTPUT
14	(+) SUPPLY

Specifications subject to change without notice.

ISSUED BY: _____

Dimensional Tolerance: ±.02" ±.005"