



# CONNOR-WINFIELD CORPORATION

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

## OSCILLATORS

### HIGH SPEED CMOS VCXO

SPECIFICATIONS	HV51-*	HV52-*	HV53-*	HV54-*	HV55-*	HV56-*	
Frequency Range	80KHz to 30MHz						
Frequency Stability	±25ppm	±50ppm	±100ppm	±20ppm	±10ppm	±5ppm	
Temperature Range	0°C to +70°C						
Output	Waveform	HCMOS Squarewave					
	Load	15pF					
	Voltage	Voh	4.5V Minimum				
		Vol	0.4V Maximum				
	Current	Ioh	-4.0mA				
		Iol	4.0mA				
	Duty Cycle	45/55 Maximum					
	Rise/Fall Time	6nS					
	Jitter	10pS RMS Maximum (1 Sigma)					
Frequency Control	* Deviation Code (add to model number)						
	40	(±20ppm Minimum)					
	100	(±50ppm Minimum)					
	150	(±75ppm Minimum)					
	160	(±80ppm Minimum)					
	200	(±100ppm Minimum)					
	250	(±125ppm Minimum)					
	300	(±150ppm Minimum) Not available with HV55 or HV56					
	350	(±175ppm Minimum) Not available with HV55 or HV56					
	400	(±200ppm Minimum) Not available with HV55 or HV56					
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	10mA Typical , 20mA Maximum						
Package	All metal, hermetically sealed, welded package						

Specifications subject to change without notice

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REV: 04  
DATE: 8/7/97

ISSUED BY: \_\_\_\_\_



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EXAMPLE MODEL NUMBER:

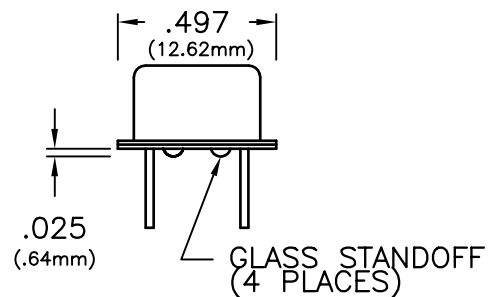
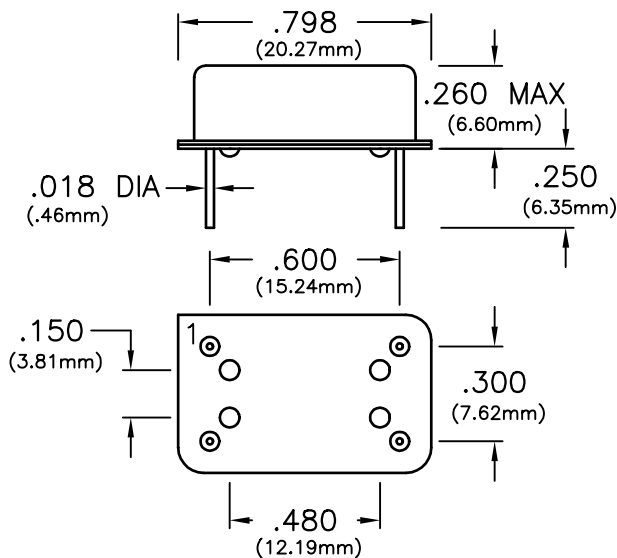
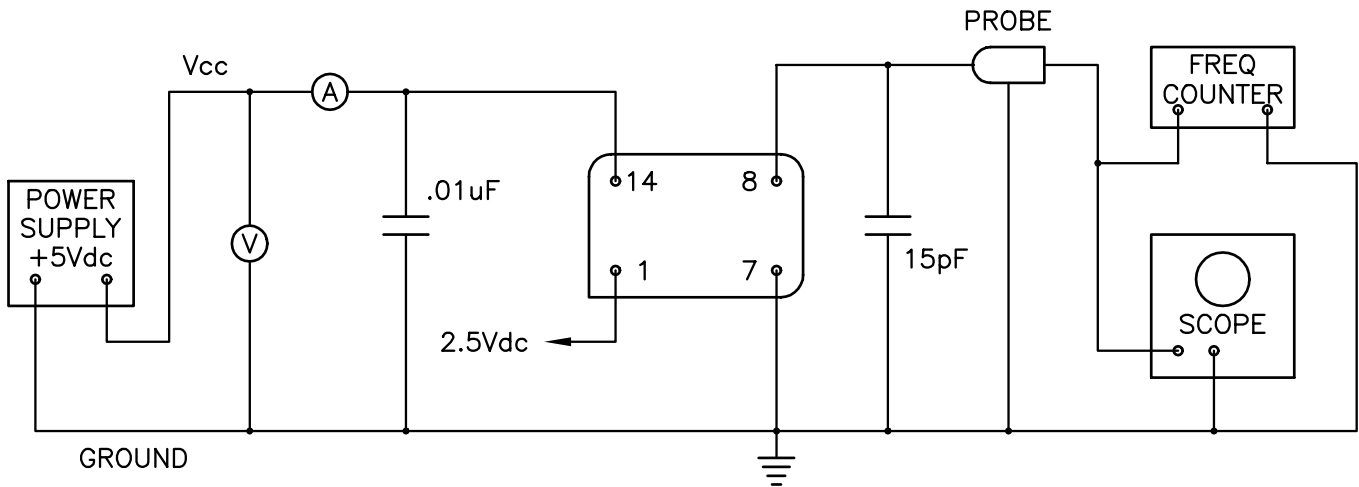
H V 5 2 - 2 0 0 / 1 2 . 3 5 2 M H z

VCXO SERIES

MINIMUM DEVIATION OF  
±100ppm FROM 0.5  
TO 4.5Vdc CONTROL  
VOLTAGE.

CENTER FREQUENCY

## TEST CIRCUIT



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

Dimensional Tolerance ±.005

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