



CONNOR-WINFIELD CORPORATION

AURORA, IL. 60505

PHONE (630) 851-4722

FAX (630) 851-5040

HIGH FREQUENCY VCXO WITH TRI-STATE

SPECIFICATIONS		HVT54I-100	HVT54I-150	HVT54I-200
Frequency Range (Fo)		30MHz to 100MHz	30MHz to 100MHz	30MHz to 65MHz
Frequency Stability (Voltage Control= 2.50Vdc)				
Vs Temperature		$\pm 10\text{ppm}$ Typical		
Vs Calibration @25°C		$\pm 5\text{ppm}$ Typical		
Vs Aging (15yrs)		$\pm 5\text{ppm}$		
Total Frequency Tolerance		$\pm 20\text{ppm}$ Maximum (Referenced to Fo)		
Temperature Range		0°C to +70°C		
Output	Waveform	CMOS Squarewave, TTL Compatible		
	Load	50pF Maximum		
	Voltage	Voh		4.5V Minimum
		Vol		0.5V Maximum
	Current	Ioh		-16mA
		Iol		16mA
	Duty Cycle	40/60 Maximum		
	Rise/Fall Time	3nS Maximum		
	Jitter (RMS)	5pS Maximum		
	SSB Phase Noise (Typical)	-65dBc/Hz @ 10Hz , -130dBc/Hz @10KHz		
Frequency Control				
Pullability @25°C (Referenced to Fo)		$\pm 50\text{ppm}$ Minimum	$\pm 75\text{ppm}$ Minimum	$\pm 100\text{ppm}$ Minimum
		$\pm 100\text{ppm}$ Maximum	$\pm 150\text{ppm}$ Maximum	$\pm 200\text{ppm}$ Maximum
Absolute Pull Range		$\pm 30\text{ppm}$ Minimum	$\pm 55\text{ppm}$ Minimum	$\pm 80\text{ppm}$ Minimum
Slope		Positive Transfer Characteristic		
Control Voltage		0.5Vdc to 4.5Vdc		
Monotonic Linearity		< $\pm 10\%$		
Input Impedance		$\geq 50\text{K ohms}$		
Modulation Bandwidth		$\geq 15\text{KHz}$		
Input (Tri-State Enable/Disable Function)	Output E/D Time	100nS Maximum		
	Enable Vih	2.0V Minimum - Output Active		
	Disable Vil	0.8V Maximum - Output High Impedance		
	No connection	Output is enabled with no connection on pin 3		
Supply Voltage		+5Vdc $\pm 5\%$		
Supply Current		50mA Max <50MHz , 70mA Max <100MHz		
Package		All metal, hermetically sealed, welded package		

WARNING!

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

Specifications subject to change without notice

BULLETIN #: VX227
PAGE 1 OF 2

REV: 02
DATE: 7/2/98

ISSUED BY: _____

Dimensional Tolerance: $\pm .02"$
 $\pm .005"$



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14 PIN VCXO OSCILLATOR

EXAMPLE MODEL NUMBER:

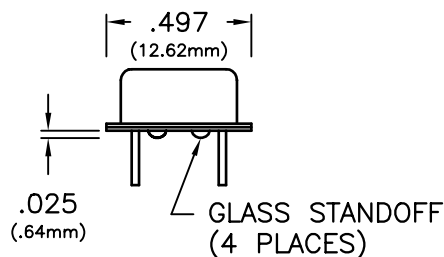
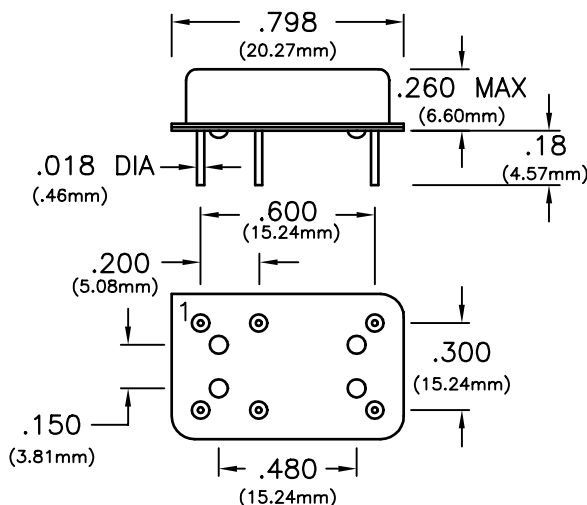
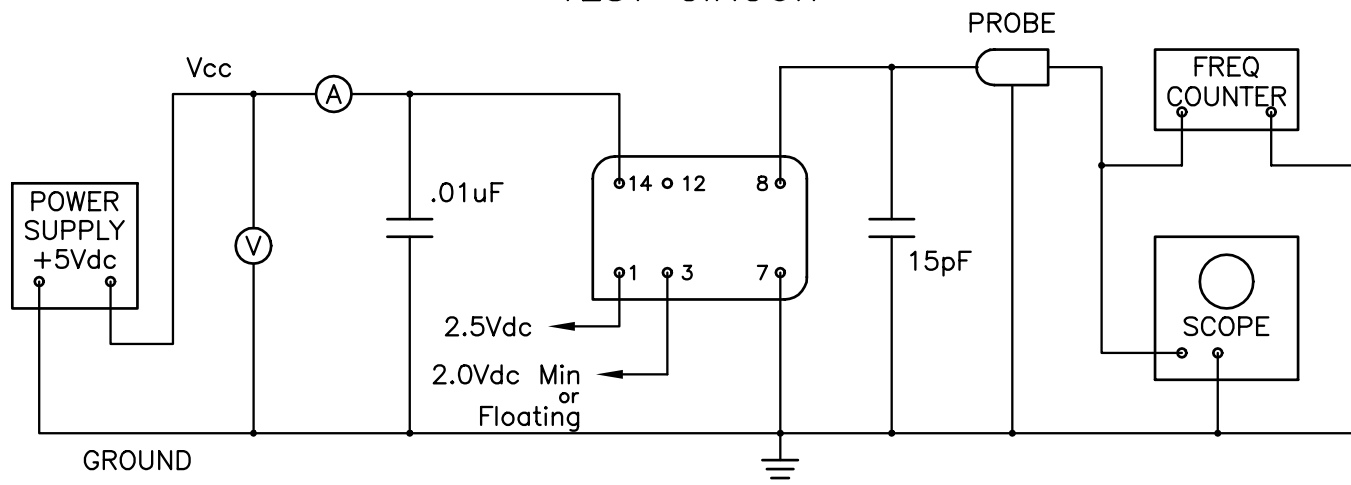
H V T 5 4 1 - 1 0 0 / 4 4 . 7 3 6 M H z

VCXO SERIES

MINIMUM DEVIATION OF
 $\pm 50\text{ppm}$ FROM 0.5
TO 4.5Vdc CONTROL
VOLTAGE.

CENTER FREQUENCY

TEST CIRCUIT



PIN	CONNECTION
1	CONTROL VOLTAGE
3	TRI-STATE VOLTAGE
7	GROUND (CASE)
8	OUTPUT
12	NO CONNECTION
14	(+) SUPPLY

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