CONNOR–WINFIELD CORPORATION

AURORA, IL. 60505
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4 PIN J–LEAD SURFACE MOUNT VCXO

SPECIFICATIONS			VSM61**4	VSM62**4	VSM64**4
Center Frequency Range (Fo)			2MHz to 100MHz		
Frequency Stability (Vcontrol=2.50Vdc)			±25ppm	±50ppm	±20ppm
			Includes frequency changes due to operating temperature.		
	Aging (10 yrs)		±10ppm		
Temperature Range			−40°C to +85°C		
Output	Waveform		CMOS Squarewave , TTL Compatible		
	Load		25pF Maximum		
	Voltage	Voh	4.5V Minimum		
		Vol	0.5V Maximum		
	Current	Ioh	−16mA		
		Iol	16mA		
	Duty Cycle		40/60 Maximum Measured @2.5Vdc		
	Rise/Fall Time		5nS Maximum		
	Jitter (BW=10Hz to 20MHz)		5pS RMS Maximum		
	Jitter (BW=12kHz to 20MHz)		1pS RMS Maximum		
	SSB Phase Noise (Typical)		−95dBc/Hz @ 100Hz , −135dBc/Hz @ 10KHz		
Frequency Control					
	Control Voltage Range		0.5 to 4.5Vdc		
	Pullability Options (measured @ 25°C, referenced to Fo) (**– Add to model number)	15	±75ppm Minimum		
		22	±100ppm Minimum Only available to 80MHz		
	Control Voltage for Fo		2.5Vdc ±0.5Vdc		
	Slope		Positive		
	Monotonic Linearity		< ±10%		
	Input Impedance		50K Ohm		
	Modulation Bandwidth		3dB cutoff frequency at 10KHz Typical		
Supply Voltage (Vcc)			+5Vdc ±5%		
Supply Current			60mA Maximum		
Package			Hermetically sealed, ceramic package with gold "J" leads		

EXAMPLE MODEL NUMBER:

V S M 6 1 1 5 4 / 7 7 . 7 6 M H z

- V S M 6 1 — SURFACE MOUNT VCXO SERIES
- 1 5 4 — MINIMUM DEVIATION OF ±75ppm OVER CONTROL VOLTAGE RANGE
- 7 7 . 7 6 M H z — CENTER FREQUENCY

Specifications subject to change without notice

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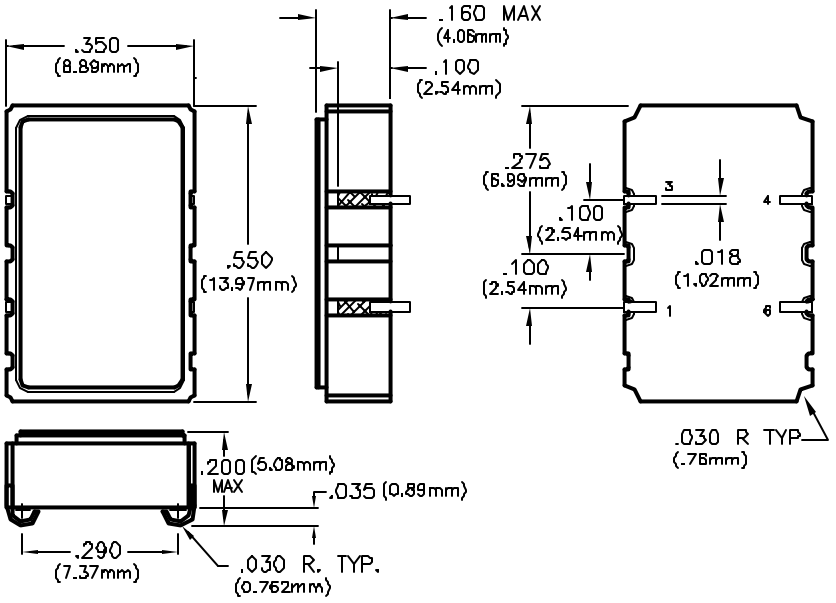
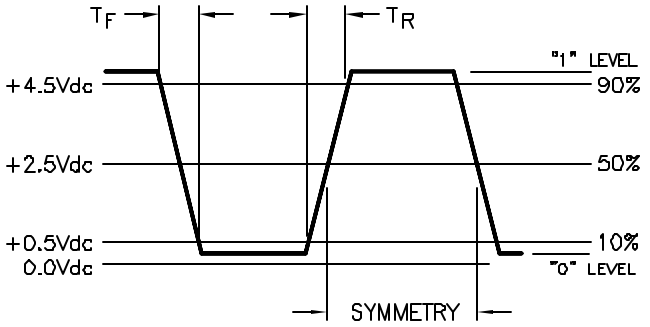
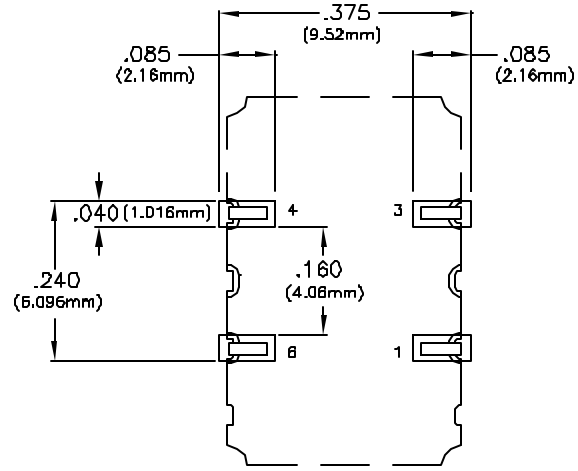


PAD	CONNECTION
1	CONTROL VOLTAGE
3	GROUND
4	OUTPUT
6	Vcc

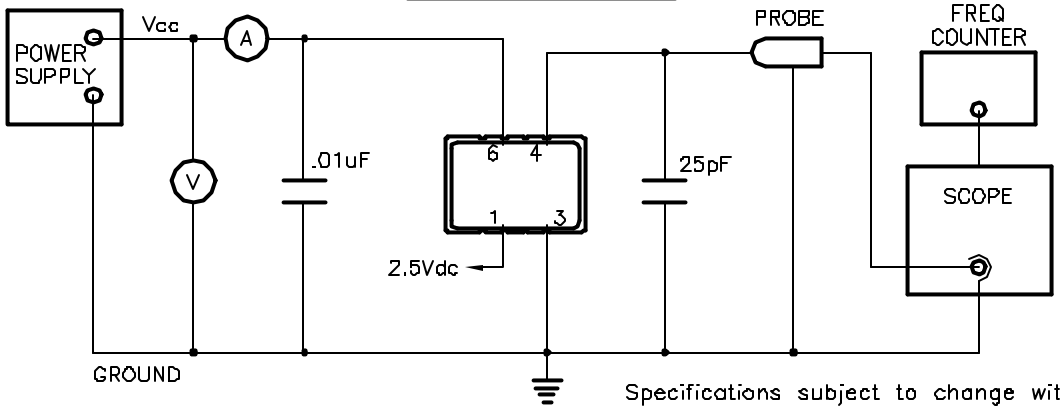
OUTPUT WAVEFORM



SUGGESTED PAD LAYOUT



TEST CIRCUIT



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BULLETIN #: VX245	REV: 03		Dimensional Tolerance: ±.02" ±.005"
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