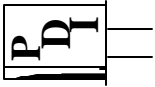
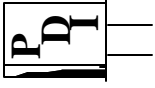


# Precision Devices, Inc.



8840 N. Greenview Dr.  
 Middleton, WI 53562  
 Phone: 608-831-4445  
 1-800-274-XTAL  
 Fax: 608-831-3343



Visit our web site at [www.pdixtal.com](http://www.pdixtal.com)

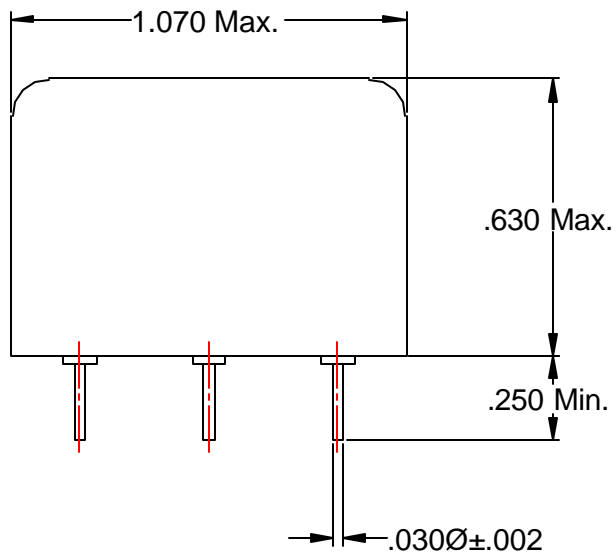
Sales Information [sales@pdixtal.com](mailto:sales@pdixtal.com)

## Electrical Specifications

1. Center Frequency: 10.500000 MHz
2. Frequency Stability: vs. Temperature:  $\pm 10$ ppb  
 vs. Warm-Up: within  $\pm 200$ ppb (5 minutes @  $+25^{\circ}\text{C}$ )  
 vs. Short Term (Allan Deviation):  $1 \times 10^{-11}$ @ 1sec. Typ.  
 vs. Long Term:  $< \pm 1$ ppb per day  
 vs after 30 days of continuous operation:  $< \pm 100$ ppb per year
3. Power Consumption: Steady State: 1.7W Max. @  $+25^{\circ}\text{C}$   
 During Warm-Up: 6.5W Max.
4. Operating Temperature:  $-40^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$
5. Storage Temperature:  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
6. Supply Voltage:  $+12\text{Vdc} \pm 5\%$
7. Output: Sine Typ.  $+9\text{dBm}$
8. Load: nom 50 Ohm
9. Harmonics:  $-35\text{dBc}$  Max.
10. Spurious:  $-110\text{dBc}$  Max.
11. Ref. Output: 11V
12. Control Voltage: 0V to 10V
13. Impedance: 10K Ohm Min.
14. Slope: Positive
15. Tuning Range:  $\pm 0.3$ ppm Typ.
16. Phase Noise: @ 1Hz  

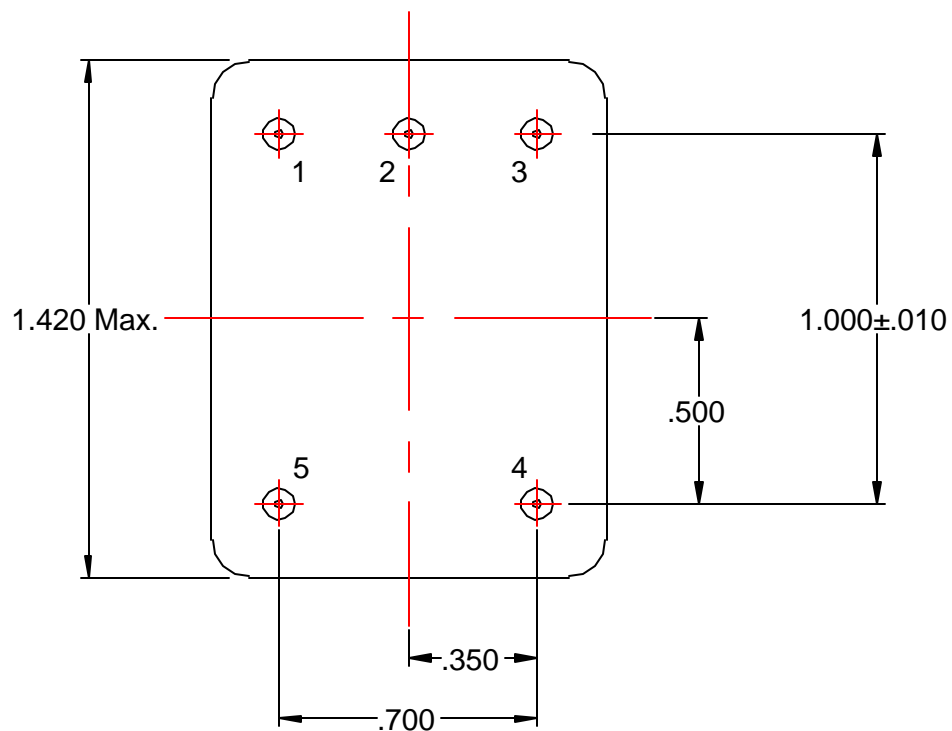
-85dBc/Hz
@ 10Hz
-120dBc/Hz
@ 100Hz
-147dBc/Hz
@ 1KHz
-160dBc/Hz
@ 10KHz
-167dBc/Hz
@ 100KHz
-170dBc/Hz

REV.	DATE	PAGE	DESCRIPTION	Auth.	ECN
<b>FOR PRELIMINARY USE ONLY</b> Specifications subject to change without notice.					
TITLE		Oven Oscillator Assembly		FKA 18334	
PART NUMBER			<b>VN0110500XWSDXX</b>		
DATE	SCALE	ECN.	REV.		
2/4/09	N.T.S.	N/A	N/A		
SIZE	CAGE			Page 1 of 2	
A	0S4G1				



## PIN CONNECTIONS

1. Frequency Adjust
2. Voltage Reference
3. Supply
4. RF Output
5. Ground



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Manufacturer of Quartz Crystal Products

DECIMAL XX $\pm$ .020 XXX $\pm$ .008	DWG FILE <b>18334</b>	PART NUMBER <b>VN0110500XWSDXX</b>	
METRIC XX $\pm$ .50 XXX $\pm$ .20	SCALE <b>N.T.S.</b>	FREQUENCY <b>10.500000 MHz</b>	DRAWN BY <b>J.Lawinger</b>
ANGULAR XX $\pm$ 2°	DRAWING TYPE Oven Oscillator Assembly		DATE <b>2/4/09</b>
	REV. LEVEL <b>N/A</b>	ECN NO. <b>N/A</b>	CAGE CODE <b>0S4G1</b>