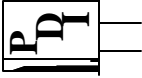
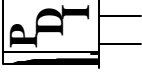


Precision Devices, Inc.



8840 N. Greenview Dr.
Middleton, WI 53562
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Electrical Specifications

1. Center Frequency: 48.000000MHz \pm 1Hz
2. Output Wave Shape: Sinewave
3. Input Voltage: +15Vdc \pm 3% Max.
4. Input Power: Less than 1.125Watts
5. Load Impedance: 50 Ohms Nominal with a load VSWR of 2.0:1 of any phase
6. Output Level: Shall be +9dBm \pm 1.5dBm into a 50 Ohm load at the following temperatures;
-54°C, -40°C, -20°C +25°C, +70°C, +85°C, +105°C
7. Frequency Stability: after 1/2 hour of operation, the output frequency shall not change by more than the following limits from the reference frequency:

Temperature Range

- \pm 40°C to +85°C
- 20°C to +70°C
- 54°C to -40°C
- +85°C to +105°C

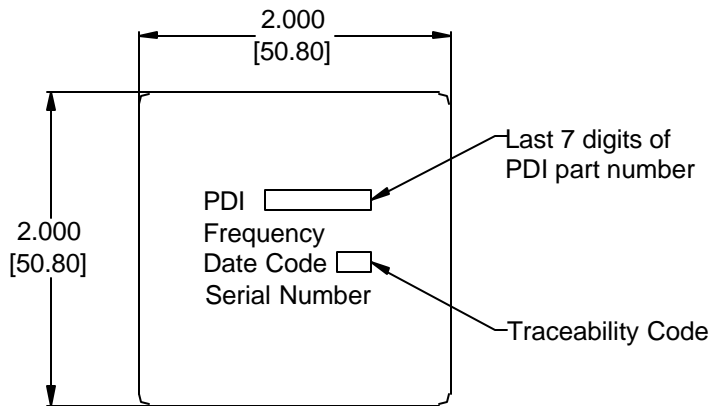
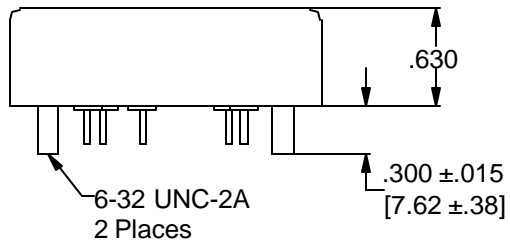
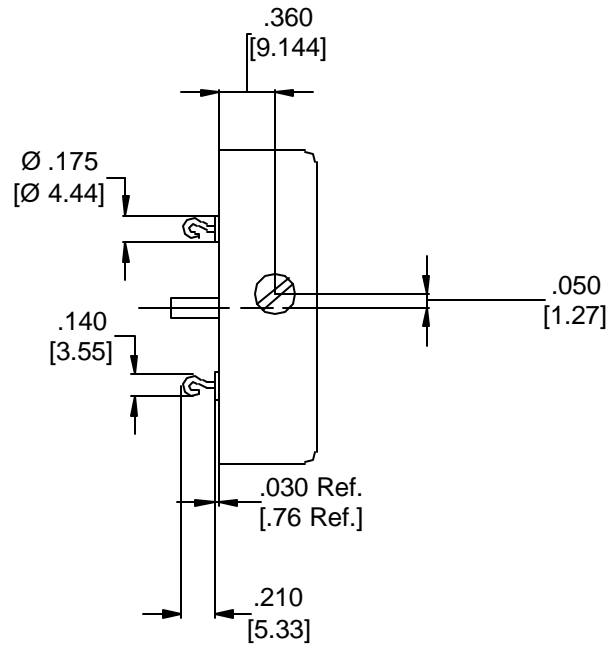
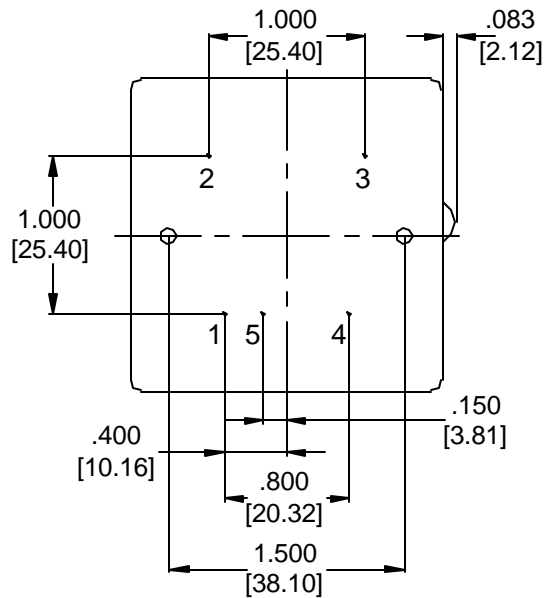
Frequency Change In 24hr Period

- \pm 240Hz Max.
- \pm 96Hz Max.
- \pm 5KHz Max.
- \pm 5KHz Max.

8. Aging: 96Hz per year Max.
9. Harmonic Related Outputs: The harmonic content of the output shall be at least 40dB below the rated output.
10. Non-Harmonic Related Outputs: The non-harmonic content of the output shall be at least 60dB below the rated output.
11. Frequency Adjustment: Adjustment range shall be sufficient for 5 years aging.
12. Operating Temperature Range: -54°C to +105°C
13. Storage Temperature Range: -62°C to +125°C
14. For all other specifications and testing requirements please refer to Hazeltine Corporation drawing number 331706.

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REV.	DATE	PAGE	DESCRIPTION	Auth.	ECN	FOR PRELIMINARY USE ONLY Specifications subject to change without notice.			
						Temp. Compensated Crystal Oscillator		17719	
						PART NUMBER SPCL48000XWSSXX			
						DATE	SCALE	ECN.	REV.
						2/3/05	N.T.S.	N/A	N/A
						SIZE	CAGE	Page 1 of 2	
						A	OS4G1		

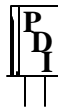


PIN CONNECTION

- 1 | RF Output
- 2 | B+
- 3 | B- and common
- 4 | Case
- 5 | RF Return

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Manufacturer of Quartz Crystal Products

DECIMAL XX=±.020 XXX=±.008	DWG FILE 17719	PART NUMBER SPCL48000XWSSXX	
METRIC XX=±.50 XXX=±.20	SCALE N.T.S.	FREQUENCY 48.000000MHz	DRAWN BY J. Bender
ANGULAR XX=±2°	REV. LEVEL N/A	ECN NO. N/A	DATE 2/3/05
		CAGE CODE OS4G1	Page 2 of 2