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 Sales Information sales@pdixtal.com

Electrical Specifications

1. Center Frequency: 104.400000Hz
2. Output: CMOS
3. Output Waveform: Symmetrical square wave
4. Supply Voltage: +5.0Vdc ±10%
5. Output Logic 1: 4.2Vdc Minimum
6. Output Logic 0: 0.5Vdc Maximum
7. Input Current Max.: 3mA Maximum
8. T-Rise, T-Fall: 70ns Maximum
9. Duty Cycle: 40% to 60% Maximum
10. Output Load: 10K Ohms ±5% shunted by 15pf ±5% capacitor for CMOS compatible square.
11. Initial accuracy @ +23°C ±1°C: ±15ppm
12. Aging: ±5ppm/year after 30 days
13. Frequency Stability over Temperature Range: ±50ppm
14. Operating Temperature Range: -55°C to +125°C
15. Storage Temperature Range: -62°C to +125°C

REV.	DATE	PAGE	DESCRIPTION	Auth.	ECN

FOR PRELIMINARY USE ONLY
Specifications subject to change without notice.

TITLE: 14-Pin Dip Crystal Oscillator		FKA: 6198Q	
PART NUMBER: O14N00010XCSEXX			
DATE: 10/9/06	SCALE: N.T.S.	ECN.: N/A	REV.: N/A
SIZE: A	CAGE: OS4G1	Page 1 of 3	

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Test Inspection	Product Level S Method Condition	Product Level B Method Condition
Internal Visual	See 4.4.1	See 4.4.1
Stabization bake (prior to seal) 1/	MIL-STD-883, method 1008 Conition C (+150°C) 48 hours min.	MIL-STD-883, method 1008 Conition C (+150°C) 24 hours min.
Thermal Shock	MIL-STD-883, method 1011, Condition A	N/A
Temperature Cycling	MIL-STD-883, method 1010 Condition B	MIL-STD-883, method 1010 Condition B
Constant Acceleration	MIL-STD-883, method 2001. Condition A, Y1 only (5000 g's)	MIL-STD-883, method 2001. Condition A, Y1 only (5000 g's)
Seal (Fine and Gross Leak) 2/	See 4.8.2.2.2	See 4.8.2.2.2
Particle Impact Noise Dectection (PIND)	MIL-STD-883, method 2020 Condition B	N/A
Electrical Test: Input Current Power Output Waveform Output Voltage-power As Specified	 4.8.5 4.8.20 4.8.21 3.1	 N/A N/A N/A 3.1
Burn-In (Load)	+125°C, nominal supply voltage and burn-in load, 240 hours minimum	+125°C, nominal supply voltage and burn-in load, 160 hours minimum
Electrical Test: Input Current Power Output Waveform Output Voltage-power As Specified	Nominal and extreme supply voltges, specified load, +23°C and temperature extremes, record all test parameters by serial number 4.8.5 4.8.20 4.8.21 3.1	Nominal supply voltges, specified load, +23°C and verify frequency at the temperature extremes. 4.8.5 4.8.20 4.8.21 3.1
Radiographic 3/	MIL-STD-883, Method 2012	N/A

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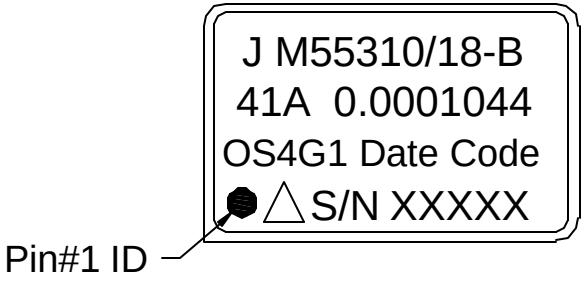
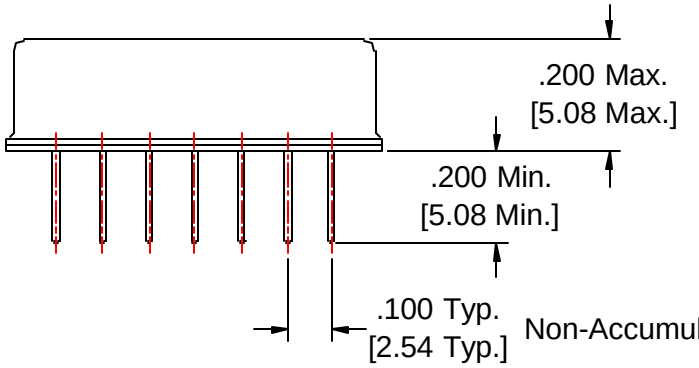
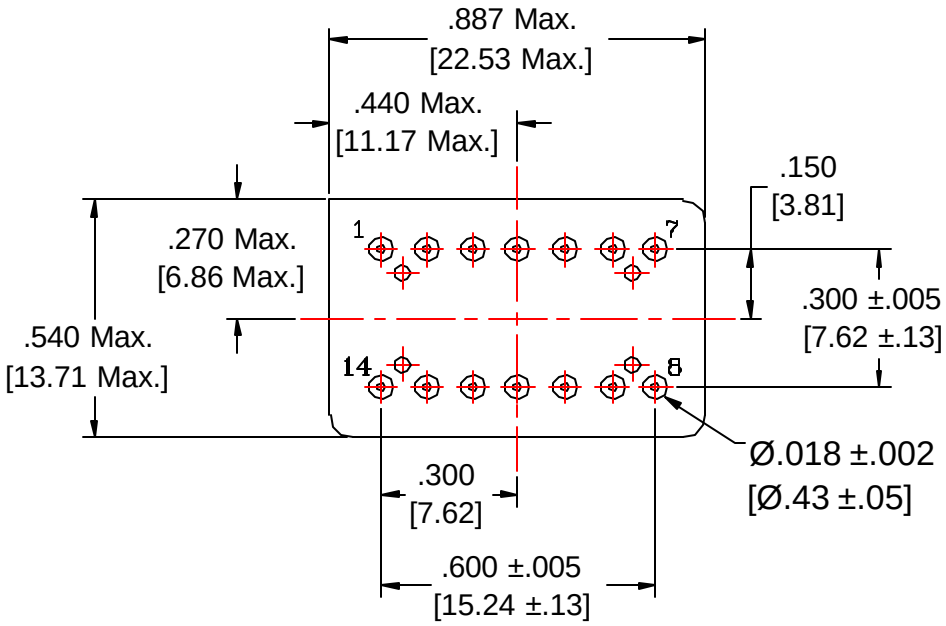
TITLE: 14 Pin Crsystal Oscillator		FKA: 6198Q	
PART NUMBER: O14N00010XCSEXX			
DATE: 10/9/06	SCALE: N.T.S.	ECN.: N/A	REV.: N/A
SIZE: A	CAGE: OS4G1		



Pin	Connection
1~6	No Connect
7	B- (Gnd/Case)
8	Output
9~13	No Connect
14	Supply





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Manufacturer of Quartz Crystal Products

DECIMAL XX=±.020 XXX=±.008	DWG FILE 6198Q	PART NUMBER O14N00010XCSEXX		
METRIC XX=±.50 XXX=±.20	SCALE N.T.S.	FREQUENCY 104.400Hz	DRAWN BY D. Baumgarten	
ANGULAR XX=±2°	DRAWING TYPE 14-Pin Dip Crystal Oscillator		DATE 10/9/06	
	REV. LEVEL N/A	ECN NO. N/A	CAGE CODE OS4G1	Page 3 of 3