

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: 2.457600 MHz
2. Output: CMOS
3. Output Waveform: Symmetrical square wave
4. Supply Voltage: +5.0Vdc $\pm 10\%$
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 $\pm 5\%$ shunted by 15pf $\pm 5\%$ capacitor for CMOS compatible square.
11. Initial accuracy @ +23°C $\pm 1^\circ\text{C}$: $\pm 15\text{ppm}$
12. Aging: $\pm 5\text{ppm}/\text{year}$ after 30 days
13. Frequency Stability over Temperature Range: $\pm 50\text{ppm}$
14. Operating Temperature Range: -55°C to +125°C
15. Storage Temperature Range: -62°C to +125°C

REV.	DATE	PAGE	DESCRIPTION	Auth.	ECN	Originator	Date	Engineering	Date
						J.L.	4/23/09	C.H.	4/23/09
						TITLE 14-Pin Dip Crystal Oscillator			FKA 6130Q
						PART NUMBER O14N02457XCSEXB			
						DATE 4/23/09	SCALE N.T.S.	ECN.	REV. A
						SIZE A	CAGE 0S4G1	Page 1 of 3	

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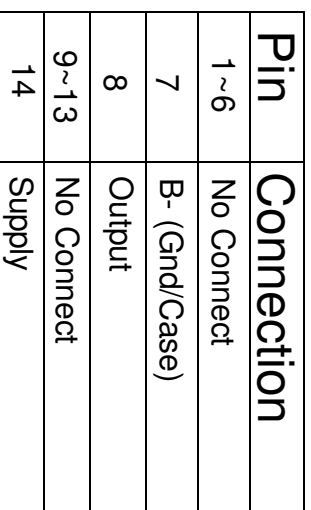
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Test Inspection	Product Level S Method Condition	Product Level B Method Condition
Internal Visual	See 4.4.1- (This is a Non-destructive bond pull test Method 2023 Per MIL-STD-883.	See 4.4.1
Stabization bake (prior to seal) <u>1</u> /	MIL-STD-883, method 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) <u>2</u>	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 <u>3</u> /	MIL-STD-883, Method 2012	N/A

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Pin#1 ID



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DECIMAL		DWG FILE	PART NUMBER
XX=±.020		6130Q	O14N02457XCSEXB
XXX=±.008			
METRIC	SCALE	FREQUENCY	DRAWN BY
XX=±.50	N.T.S.	2.45760MHz	D. Baumgarten
XXX=±.20	DRAWING TYPE		DATE
	14-Pin Dip Crystal Oscillator		4/23/09
ANGULAR	REV. LEVEL	ECN NO.	CAGE CODE
XX=±2°	A		0S4G1

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