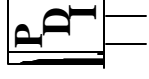


# Precision Devices, Inc.

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)

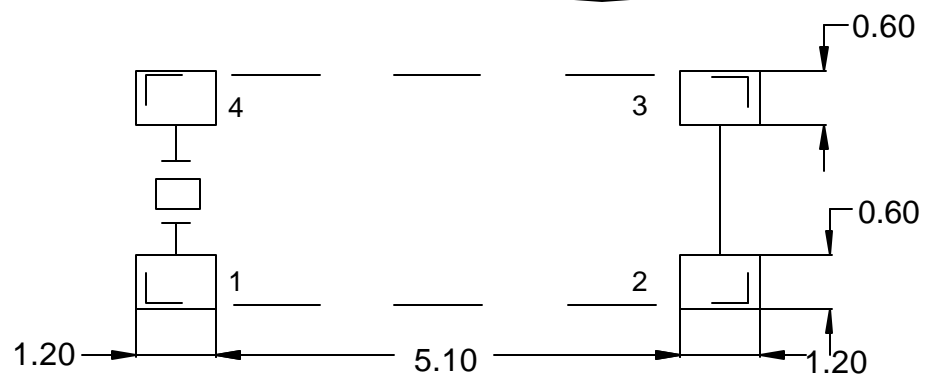
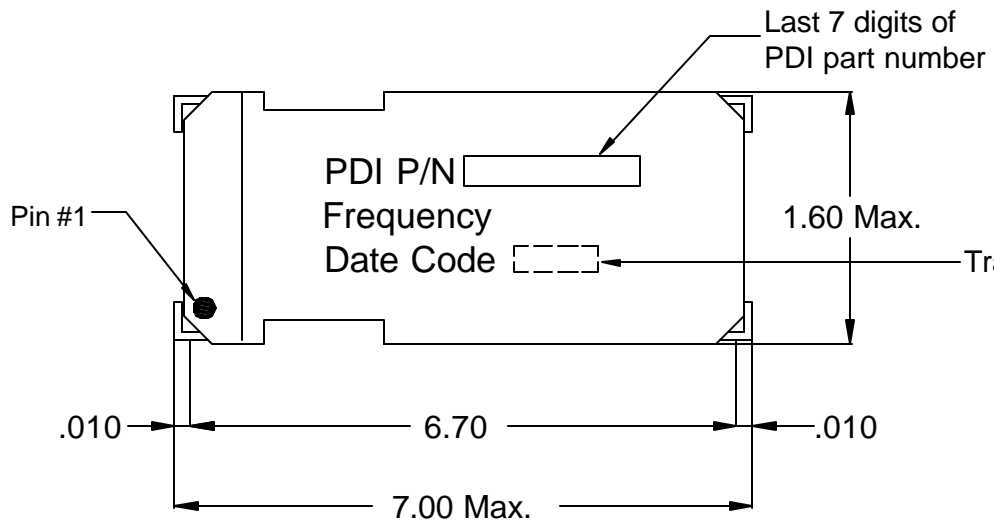
Sales Information [sales@pdixtal.com](mailto:sales@pdixtal.com)

## Electrical Specifications

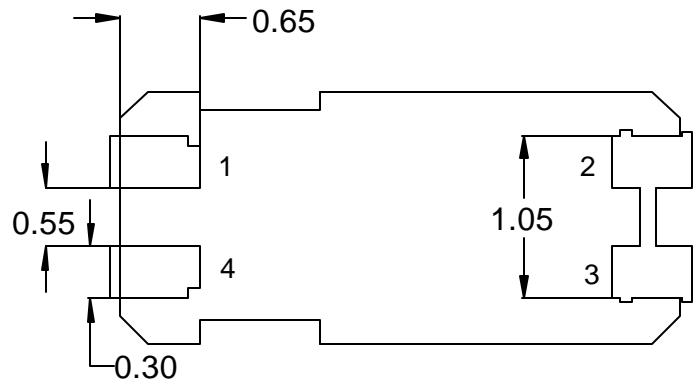
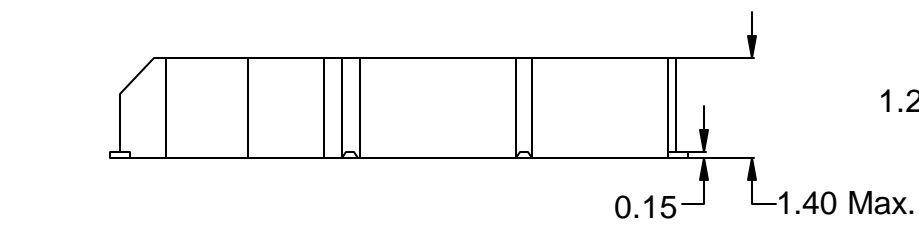
- Center Frequency: 32.768000 KHz
- Oscillation Mode: Fundamental
- Max. Series Resistance: 65K Ohms Maximum
- Tolerance @ 25°C: ±20ppm
- Operating Temperature Range: -40°C to +85°C
- Max. Change over Temp Range: ±20ppm
- Drive Level: 1uW Maximum
- Seal Method: RW
- Co (Shunt Capacitance): 1.2pF Typical
- C1 (Motional Capacitance): 2.3fF Typical
- CI (Load Capacitance): 12.5pF
- Aging: ±3ppm/year
- Spurious: -1.5dB Min.
- Insulation Resistance: 500 Megaohms Minimum
- Frequency Temperature Coefficient: -0.034±.006ppm/°C<sup>2</sup>
- Storage Temperature Range: -55°C to +125°C
- Capacitance Ratio: 520 Typical
- Plating Finish Device Package: 96.5% Tin Max., 0% Lead

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REV.	DATE	PAGE	DESCRIPTION	Auth.	ECN
<b>FOR PRELIMINARY USE ONLY</b> Specifications subject to change without notice.					
TITLE		FKA		12338	
Crystal Assembly					
PART NUMBER <b>CM00032XFSD12XX</b>					
DATE	SCALE	ECN.	REV.		
3/5/07	N.T.S.	N/A	N/A		
SIZE	CAGE	Page 1 of 2			
A	OS4G1				



Recommended Pad Layout



# Precision Devices Inc.

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Manufacturer of Quartz Crystal Products

DECIMAL XX=±.020 XXX=±.008	DWG FILE <b>12338</b>	PART NUMBER <b>CM00032XFSD12XX</b>	
METRIC XX=±.50 XXX=±.20	SCALE <b>N.T.S.</b>	FREQUENCY <b>32.768000 KHz</b>	DRAWN BY <b>J.Lawinger</b>
ANGULAR XX=±2°	REV. LEVEL <b>N/A</b>	ECN NO. <b>N/A</b>	DATE <b>3/5/07</b>
		CAGE CODE <b>OS4G1</b>	<b>Page 2 of 2</b>