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: 24.575700 MHz
2. Initial Calibration (@ +25°C ±2°C): ±2.0ppm
3. Frequency Stability:
   - vs. Temperature: ±2.0ppm (-40°C to +85°C)
   - vs. Aging: ±1ppm max. 1st year @25°C
   - vs. Supply Voltage: ±0.5ppm max. for a 10% input Voltage change
   - vs. Load: ±0.3ppm max. for a ±10% load condition change
   - vs. Reflow: ±1ppm max.
4. Operating Temperature Range: -40 to +85°C
5. Storage Temperature Range: -55 to +125°C
6. Supply Voltage: +3.3Vdc ±5.0%
7. Current Consumption: 30mA Maximum
8. Output Waveform: CMOS/TTL
9. Output Load: 50pF Maximum
10. Rise / Fall Time: 10nSec Maximum (20%-80% of Waveform)
11. Output Level:
    - Logic "1": 2.4V min.
    - Logic "0": 0.4V max.
12. Start-up Time: 10mSec Max.
13. Phase Noise:
    - @10 Hz offset: -72dBc/Hz
    - @ 100 Hz offset: -110dBc/Hz
    - @ 1.0 KHz offset: -125dBc/Hz
    - @10 Khz offset: -132dBc/Hz
    - @100 Khz offset: -125dBc/Hz
14. Solder Pad Plating: Gold (Au)1.0±0.2 micron over Nickel(Ni) 5.0±1.0 micron
15. Absolutely no process, design or component changes will be allowed without prior written permission from Precision Devices, Inc.

REV.	DATE	PAGE	DESCRIPTION	Auth.	ECN

Originator	Date	Engineering	Date
J.L.	5/6/08	B.A.A.	5/6/08

TITLE	FKA
Temperature Controlled Crystal Oscillator	18253

PART NUMBER: **TC0724575XCLDXA**

DATE	SCALE	ECN.	REV.
5/6/08	N.T.S.	N/A	N/A

SIZE	CAGE	
A	0S4G1	Page 1 of 3

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Environmental Characteristics

Storage Temperature: ..... -55°C to +125°C
Temperature Cycle: .....25 Cycles, -55°C to +125°C
per MIL-STD-883,Method1010
Constant Acceleration: ..... 5000g's, 0.5mS
3 Shocks per direction
per MIL-STD-883, Method 2002
Sinusoidal Vibration: ..... 0.06" D.A., 10 to 55Hz
and 30g's, 55 to 2000 Hz
3 Cycles per direction per
MIL-STD-883, Method 2007
Random Vibration: ..... 20Grms, 20 to 2000 Hz,
per MIL-STD-883, Method 2026

Lead Integrity: ..... per MIL-STD-883
Mehtod 2004 conditions B1 and B2
Hermaticity:..... $3x10^{-4}$ ATM-cc/sec,
per MIL-STD-883, Method
1014 conditions B1 and B2
Moisture Resistance:.....10 cycles, per MIL-STD-883
Method 1014 with step 7 subcycle omitted

Corrosion Resistance:..... 24 hours, per MIL-STD-883
Method 1009 condition A
Solderability:..... per MIL-STD-883, Method 2003
or MIL-STD-202, Method 208.
Except 1 hour Pre-Conditioning
Quality:.....In Accordance with MIL-1-45208
Resistance to Soldering Heat:..... per MIL-STD-202
Method 210 conditions A and C
Marking Permanence: per MIL-STD-883, Method 2015
Thermal Reistance:. per MIL-STD-883, Method 1012.1
Electrostatic Discharge Sensitivity:...per MIL-STD-883
Method 3015 ECL output models-> 4KV
(Class 2- not sensitive)
CMOS output models-> 2KV
(Class 1- not sensitive)
Steady-State Life:..... 1000 hours @ 125°C per
Method 1005, disregarding frequency shift
Frequency Aging:.....<10ppm shift in 30 days
@ 85°C ambient

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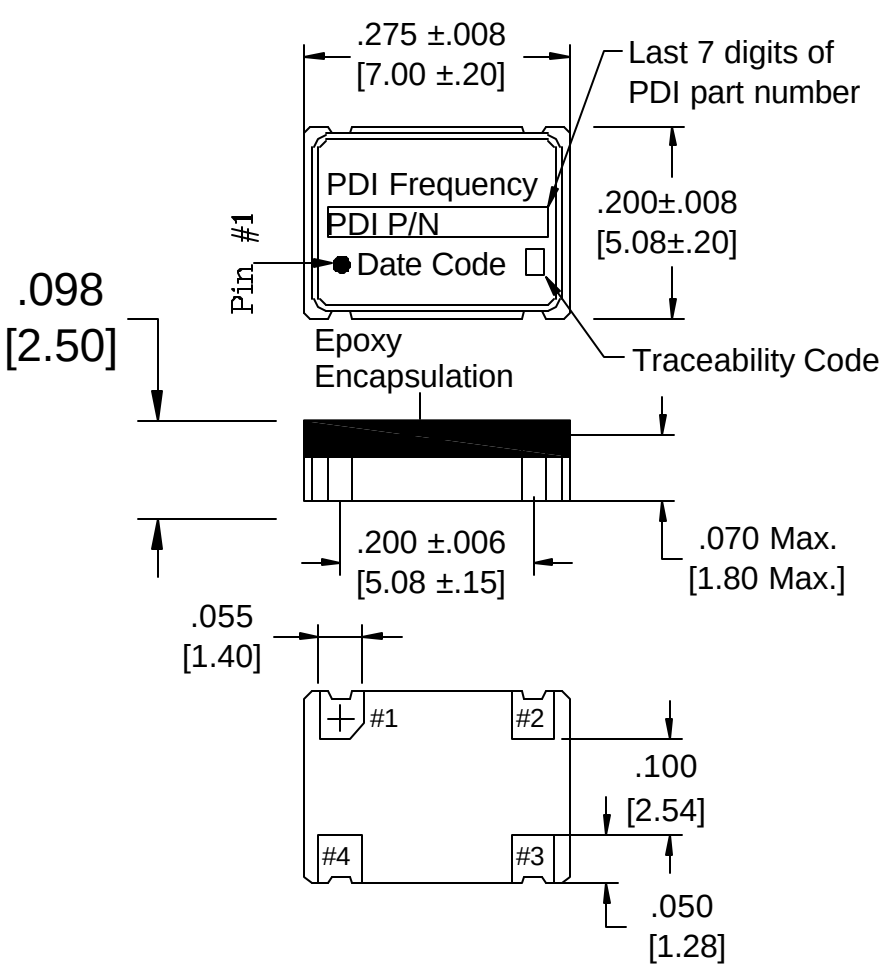

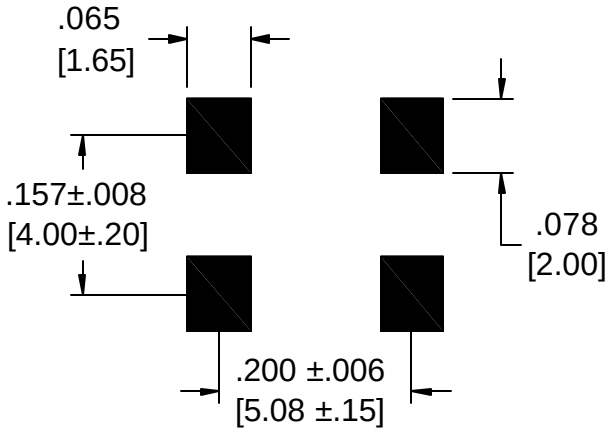

Recommended Land Pattern

PIN	Connection
1	No Connect
2	Ground
3	Output
4	Vcc

GREEN PRODUCT
RoHS
Compliant
EU 2002/95/EC
Precision Devices, Inc.

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Manufacturer of Quartz Crystal Products

DECIMAL XX=±.020 XXX=±.008	DWG FILE 18253	PART NUMBER TC0724575XCLDXA	
METRIC XX=±.50 XXX=±.20	SCALE N.T.S.	FREQUENCY 24.575700 MHz	DRAWN BY J.Lawinger
ANGULAR XX=±2°	DRAWING TYPE Temperature Controlled Crystal Oscillator		DATE 5/6/08
	REV. LEVEL N/A	ECN NO. N/A	CAGE CODE 0S4G1