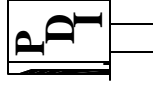


Precision Devices, Inc.

8840 N. Greenview Dr.
 Middleton, WI 53562
 Phone: 608-831-4445
 1-800-274-XTAL
 Fax: 608-831-3343



Vist our web site at www.pdixtal.com

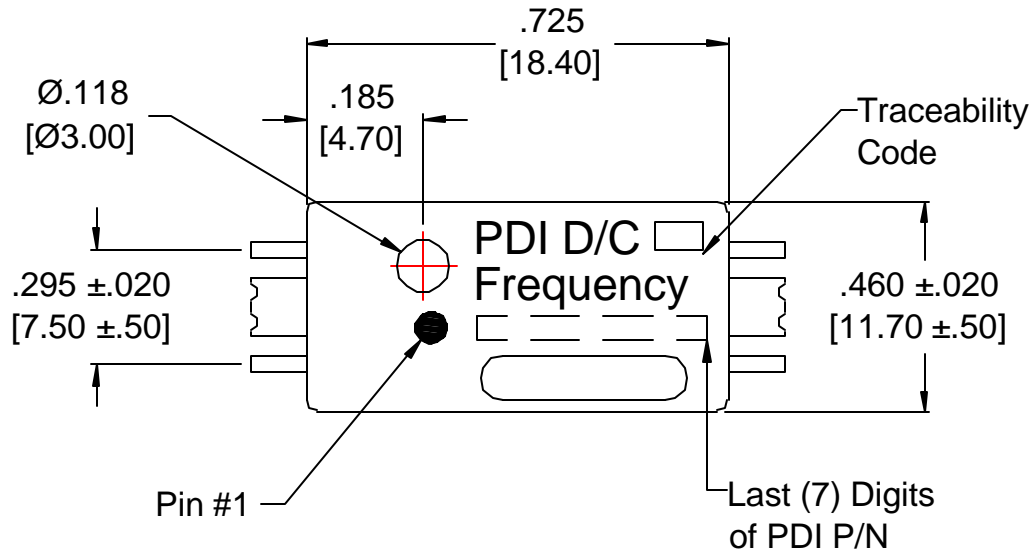
Sales Information sales@pdixtal.com

Electrical Specifications

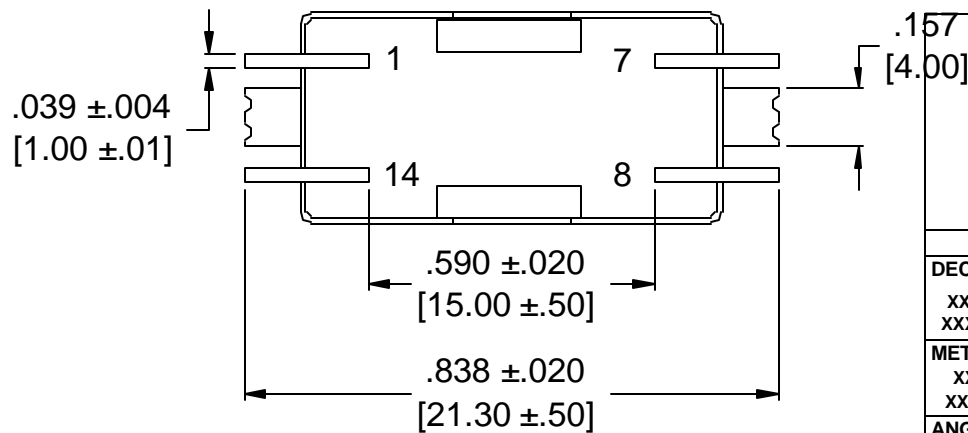
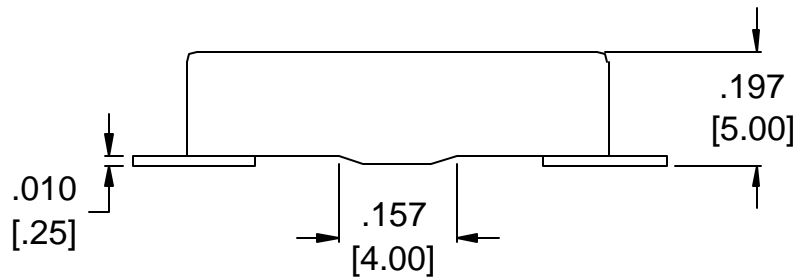
- Center Frequency: 50.40000 MHz
- Calibration Tolerance: Adjustable to nominal frequency at +25°C with +1.65V ±0.3V applied to pin 1
- Output Waveform: HCMOS compatible (Squarewave)
- Frequency Stability:
 - vs. Temperature: ±5.0ppm maximum over -40°C to +85°C w.r.t. nominal frequency @+25°C.
 - vs. Time: ±1.0ppm per year maximum @+25°C
 - vs. Supply Voltage: ±0.3ppm maximum for a ±5.0% change
 - vs. Load: ±0.3ppm maximum for a ±10.0% change
- Operating Temperature Range: -40°C to +85°C
- Storage Temperature Range: -55°C to +105°C
- Supply Voltage: +3.3Vdc ±5%
- Supply Current: 20mA Maximum
- Output Characteristics:
 - Logic Levels: Low<0.10 Vcc, High >0.90 Vcc
 - Fan Out: 15pf
 - Mark Space Ratio: 60:40 to 40:60 Vcc/2
 - Rise/Fall Time: 3.0nSec. maximum

- Frequency Adjustment Range: ±5.0ppm minimum w.r.t. nominal frequency at +25°C via an external control voltage range of +0.15V to +3.15V applied to pin 1.
- Polarity: Positive- Frequency increases with applied voltage
- Linearity: ±10% Maximum error
- Input Impedance: 10K Ohms Minimum
- Phase Noise Response:
 - 110dBc/Hz at 100Hz offset
 - 130dBc/Hz at 1Khz offset
 - 135dBc/Hz at 10Khz offset

REV.	DATE	PAGE	DESCRIPTION	ECN	Originator	Date	Engineering	Date
					D.B.	5/12/09	B.A.A.	5/12/09
					TITLE Temperature Controlled Crystal Oscillator		FKA 17914	
					PART NUMBER TC2650400XHSDXA			
					DATE	SCALE	ECN.	REV.
					5/12/09	N.T.S.	E0862	A
A	5/09	2	Revised package per customer request	E0862	SIZE A	CAGE 0S4G1		Page 1 of 2

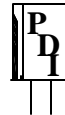


Pin	Connection
1	Voltage Control
7	Ground/Case
8	Output
14	+VE Supply



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Manufacturer of Quartz Crystal Products

DECIMAL XX=±.020 XXX=±.008	DWG FILE 17914	PART NUMBER TC2650400XHSDXA	
METRIC XX=±.50 XXX=±.20	SCALE N.T.S.	FREQUENCY 50.400 MHz	DRAWN BY D. Baumgarten
ANGULAR XX=±2°	DRAWING TYPE Temperature Controlled Crystal Oscillator		DATE 5/12/09
	REV. LEVEL A	ECN NO. E0862	CAGE CODE 0S4G1