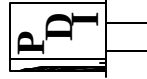
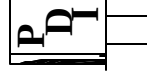


Precision Devices, Inc.



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

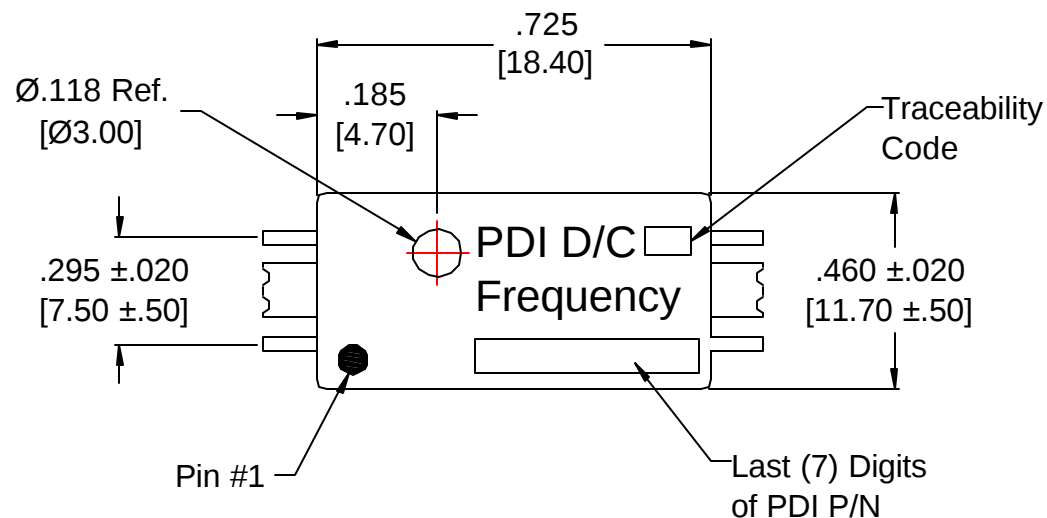
Sales Information sales@pdixtal.com

Electrical Specifications

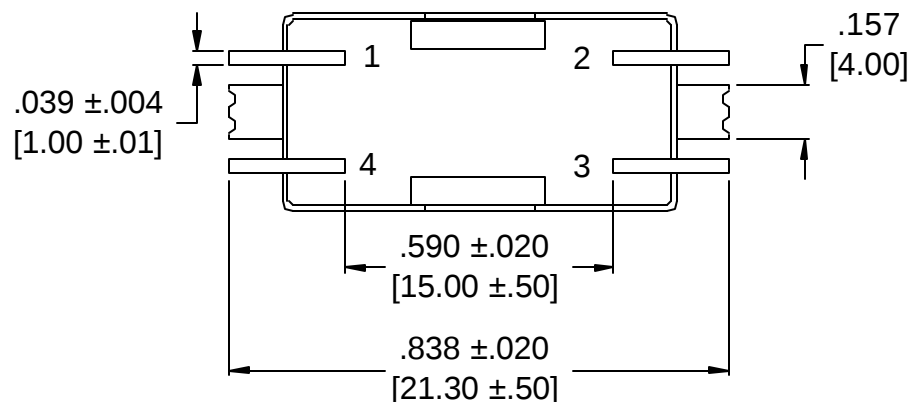
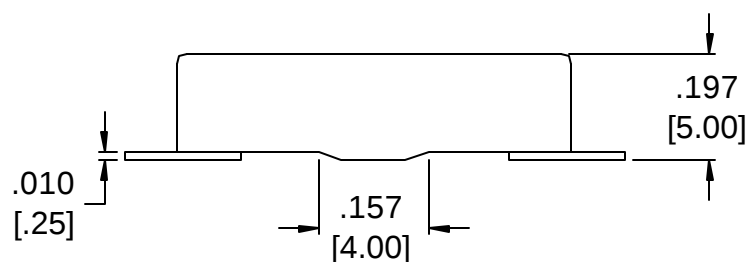
- Center Frequency (fo): 21.000000 MHz
- Input Voltage: V1 = +3.3Vdc ± 0.17 v maximum
- Supply Ripple & Noise: 50mV peak/peak sinewave @ any frequency between 100 Hz and 12 MHz
- Input Current: 3mA maximum
- Frequency: Frequency shall be set to within ± 1 ppm of desired frequency fo at +25°C at time of shipping.
- RF Output: Within 500 mS maximum after application of input voltage.
- Load VSWR: RF output must withstand continuous applications of loads of any VSWR including short and open circuit conditions.
- Output Waveform: Sinewave 0.7 volt peak to peak min. Output shall be AC coupled (DC open)
- Oscillator Load: 5pf $\pm 10\%$ maximum in parallel 10K Ohms $\pm 10\%$ minimum
- Long Term Aging: Less than 5ppm/10 years maximum
- Temperature Stability: ± 2.0 ppm maximum when run over a temperature loop starting at +25°C, going to -45°C up to +85°C and back to -25°C with transition rates of 2°/minute
- Voltage Stability: ± 0.2 ppm maximum @ +25°C for the input range
- Acceleration Sensitivity: 0.001ppm/G maximum
- Harmonics: The 2nd harmonics must be less than -15dBc minimum relative to carrier
- Spurious: -60dBc maximum, -50dBc maximum during vibration.
- Phase Noise:
 - @ 1Hz: -47dBc/Hz Maximum
 - @ 10Hz: -82dBc/Hz Maximum
 - @ 100Hz: -112dBc/Hz Maximum
 - @ 1kHz: -132dBc/Hz Maximum
 - @ 10kHz: -142dBc/Hz Maximum
 - @ 100kHz: -147dBc/Hz Maximum
- Response to Supply Ripple: With the specified power supply ripple, the total power of the spurious outputs at frequencies removed from fo by 100Hz to 12MHz must be no greater than -57dBc maximum
- Temperature Range: Operating; -45°C to +85°C, Storage; -65°C to +85°C
- Cold Temperature Start-Up: After and extended cold soak at -55°C with no power applied, the part shall start-up and run with application of power.

Note: Additional requirements per customer drawing 277-0825-010

REV.	DATE	PAGE	DESCRIPTION	ECN	Originator	Date	Engineering	Date
					D.G.	6/15/09	B.A.	6/15/09
					TITLE Temperature Controlled Crystal Oscillator		FKA 17201	
					PART NUMBER TC2621000XWLDXX			
					DATE 6/15/09	SCALE N.T.S.	ECN. N/A	REV. A
					SIZE A	CAGE 0S4G1	Page 1 of 2	



Pin	Connection
1	No Connect
2	Ground
3	Output
4	Supply



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Manufacturer of Quartz Crystal Products

DECIMAL	DWG FILE	PART NUMBER
XX=±.020 XXX=±.008	17201	TC2621000XWLDXX
METRIC	SCALE	FREQUENCY
XX=±.50 XXX=±.20	N.T.S.	21.0000 MHz
ANGULAR	DRAWING TYPE	DATE
XX=±2°	Temperature Controlled Crystal Oscillator	6/15/09
	REV. LEVEL	ECN NO.
	A	N/A
	CAGE CODE	0S4G1

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