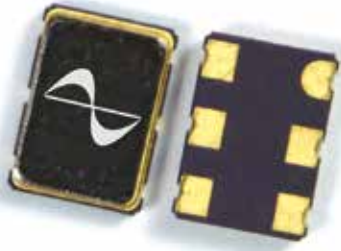


VC07-Series Specifications

7.00L x 5.00W x 1.80H (mm)



PDI VC07-Series Voltage Controlled Crystal Oscillator (VCXO) ensure a precise frequency under demanding circumstances. With ultra-low phase noise, low jitter, and excellent performance in high vibration environments, this VCXO is offered in both standard and custom frequencies. PDI provides quick-turn sampling for your proto-typing needs, mass production capability, and competitive pricing.

ex) **VC-0-7-25000X-C-B-B-3-R-X***

ENABLE

T = Tri-State
(6-Pad Only)
O = No/Connect
(4-Pad Only)

FREQUENCY

00750X-99999X =
0.7500 MHz –
99.000 MHz
C10000-C16000 =
100.00 MHz –
160.00 MHz

OUTPUT

C = TTL/CMOS
O = LVCMOS

FREQUENCY STABILITY

B = ±25
C = ±50
D = ±100
S = Special

OPERATING TEMPERATURE

A = 0 to +70°C
B = -20 to +70°C
D = -40 to +85°C
S = Special

SUPPLY VOLTAGE

3 = 3.3
5 = 5.0

PACKAGE

R = Tape & Reel

* - for standard or assigned for customization.

Parameter		Supply Voltage ^{*1} (±10%)		Units
		5.0	3.3	V
Frequency Range ^{*1}		0.750000-160.000000		MHz
Frequency Stability ^{*1}	All Causes (Maximum) ^{*2}	Per Option		ppm
Frequency Adjustment	Control Voltage Range	10 to 90		%Vcc
	Absolute Pull Range (APR) (Minimum)	±50		ppm
	Linearity (Maximum)	10		%
	Input Impedance (Minimum)	50K		Ω
	Modulation Bandwidth (Minimum)	10		KHz
Temperature Range ^{*1}	Operating	Per Option		°C
	Storage	-55 to +125		
Supply Current (Maximum)	0.750000 to 29.999999 MHz	25	20	mA
	30.000000 to 69.999999 MHz	30	25	
	70.000000 to 160.000000 MHz	60	50	
Output		Per Option		
Load		15pF/10 TTL gates		
Duty Cycle (at 50% Vcc)		40 to 60% (45 to 55% option)		
Rise/Fall Times (Maximum)	Rise Time (10% to 90% Vcc)	5.0		ns
	Fall Time (90% to 10% Vcc)	5.0		
Start up Time (Maximum)		10		ms
Output Voltage Levels	High (Minimum)	90		% Vcc
	Low (Maximum)	10		
Pin 2 (Tri-State) (6-Pad Option Only)	Enable (High Voltage) (Minimum)	70		% Vcc
	Disable (Low Voltage) (Maximum)	30		% Vcc
Phase Noise (Typical For 38.4 MHz)	@ 100Hz Offset	-110		dBc/Hz
	@ 1KHz Offset	-130		
	@ 10KHz Offset	-140		

*1 - Not all Frequency/Temperature/Voltage combinations are available.

*2 - Inclusive of Tolerance @25°C, Operating Temperature, Supply Voltage, Load, Aging, Shock and Vibration.

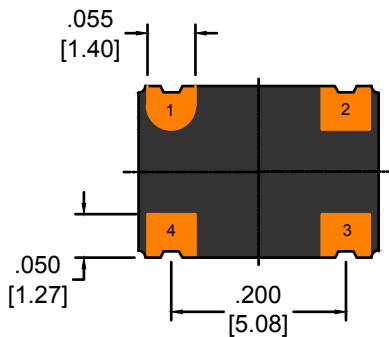
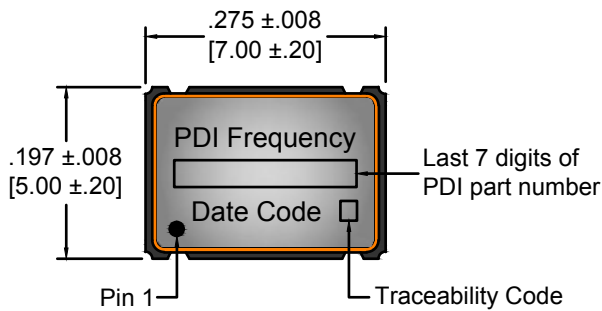
VC07-Series 7.00 x 5.00 x 1.80 (mm)



PACKAGE DIMENSIONS

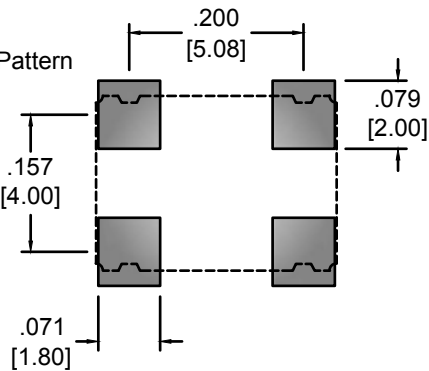
Decimal XXX = $\pm .008$, XX = $\pm .02$ Metric [XXX = $\pm .20$], [XX = $\pm .50$]

4-Pad Option
(No Connect)

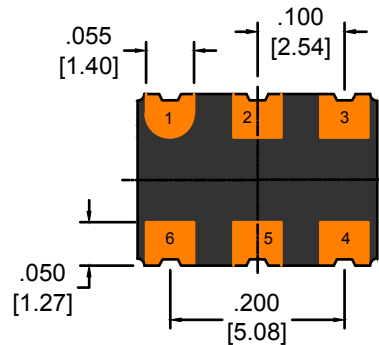
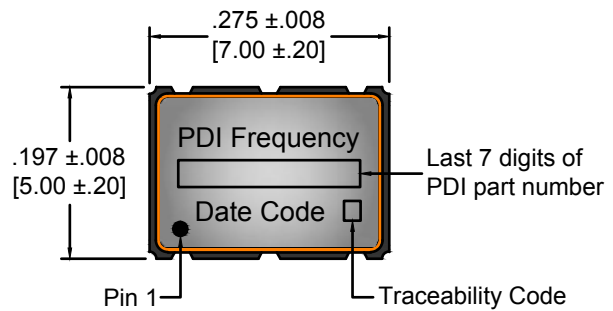


Recommended Land Pattern
(Top View)

PIN	CONNECTION
1	Voltage Control
2	Ground/Case
3	Output
4	Supply Voltage

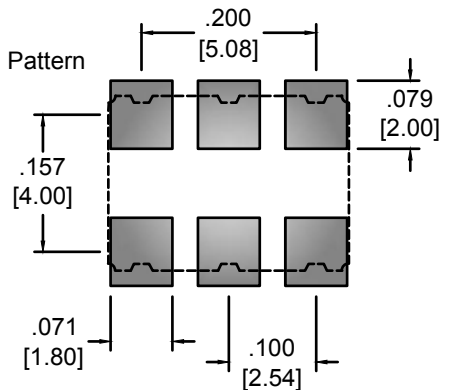


6-Pad Option
(Tri-State)



Recommended Land Pattern
(Top View)

PIN	CONNECTION
1	Voltage Control
2	Tri-state
3	Ground/Case
4	Output
5	No Connect
6	Supply Voltage



NOTES:

Terminals are Au.

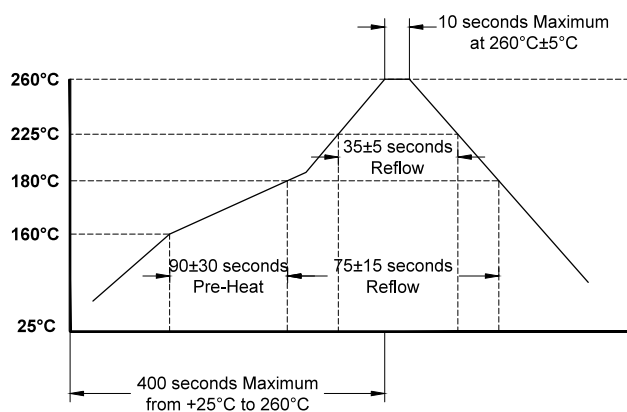
Other options are available, please consult factory.

All product is supplied RoHS and REACH compliant.

Product can be supplied on Tape and Reel, on reels of 1,000 units.

Specifications subject to change without notice, last updated 4/1/13.

-
- Technical drawing of a circular mechanical part, showing three views: Section A-A, a top view, and a side view.
- Section A-A:** A cross-sectional view of the part, showing a central hole with a diameter of $\varnothing 0.059$ [1.50]. The part is divided into three segments by a central vertical line. The segments are separated by gaps of $.079$ [2.00]. The segments have a thickness of $.157$ Typ. [4.00 Typ.]. The total width of the part is $.630 \pm .012$ [16.00 $\pm$.30]. The part is shown with a break in the middle.
- Top View:** A circular view of the part, showing three segments separated by gaps. The segments are separated by gaps of $.079$ [2.00]. The segments have a thickness of $.157$ Typ. [4.00 Typ.]. The total width of the part is $.630 \pm .012$ [16.00 $\pm$.30]. The part is shown with a break in the middle.
- Side View:** A side view of the part, showing a rectangular profile. The total width of the part is $.538$ [16.20]. The height of the part is 3.15 [80.00]. The part is shown with a break in the middle.
- Dimensions:**
- Section A-A: $\varnothing 0.059$ [1.50], $.079$ [2.00], $.157$ Typ. [4.00 Typ.], $.630 \pm .012$ [16.00 $\pm$.30], $.069$ [1.75], $.295$ [7.50], $.315$ Typ. [8.00 Typ.], $.012 \pm .002$ [0.30 $\pm$.05].
 - Top View: 120° , $\varnothing 7.09$ [180.00].
 - Side View: $.538$ [16.20], 3.15 [80.00].



Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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