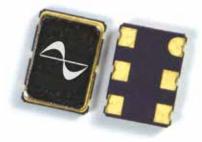
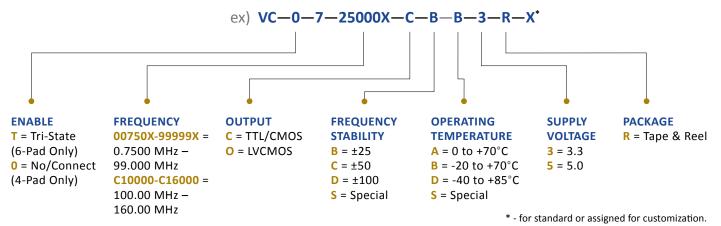


VC07-Series Specifications



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.



	Supply Voltage ^{*1} (±10%)		Units	
Parameter		5.0	3.3	V
Frequency Range ^{*1}		0.750000-1	60.000000	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		
	0.750000 to 29.999999 MHz	25	20	mA
Supply Current (Maximum)	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
Pin 2 (In-State) (6-Pad Option Only)	Disable (Low Voltage) (Maximum)	30		% Vcc
Phase Noise	@ 100Hz Offset	-110		dBc/Hz
	@ 1KHz Offset	-130		
(Typical For 38.4 MHz)	@ 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.

	rev: NA	SIZE: A	CAGE: 0S4G1	1 of 3
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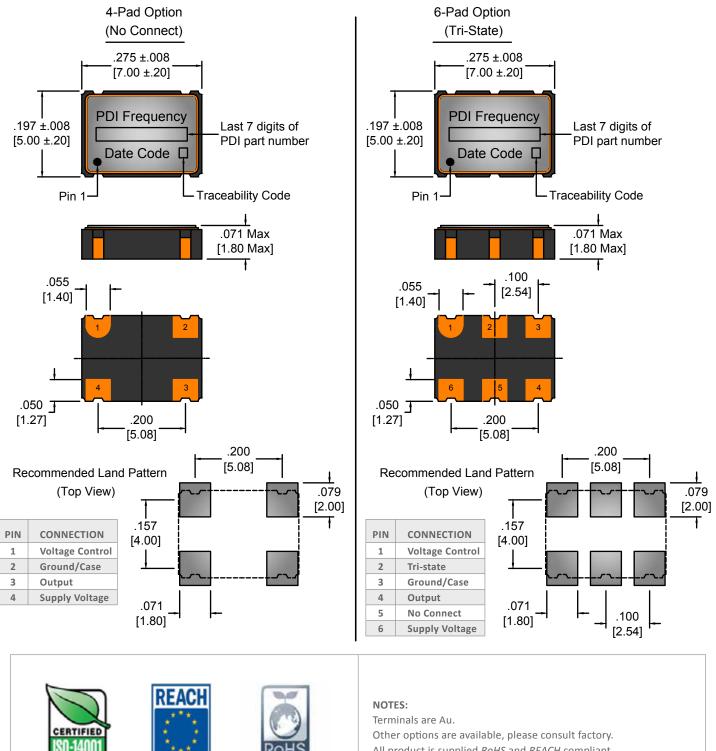
VC07-Series 7.00 x 5.00 x 1.80 (mm)

PACKAGE DIMENSIONS

COMPANY

COMPLIANCE

Decimal XXX = ± .008, XX = ± .02 Metric [XXX = ± .20], [XX = ± .50]



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.

REV: NA	SIZE: A	CAGE: 0S4G1	2 of 3

VC07-Series 7.00 x 5.00 x 1.80 (mm)



- 1. Material: Black Conductive Polystyrene or equivalent.
- ${\bf 2}.$ 10 Sprocket Hole pitch cumulative tolerance of $\pm.008.$
- ${\bf 3}.$ Camber in compliance with EIA 481.
- 4. Empty pockets: Trailing end (Minimum) 200 mm. and Leading end (Minimum) 400 mm.
- **5**. Pocket position relative to sprocket hole measured as true position of pocket, not pocket hole.

