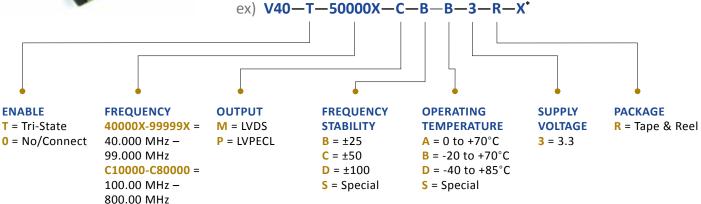
VC40-Series Specifications





14.00L x 9.10W x 4.70H (mm)

PDI *VC40-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.



* - for standard or assigned for customization.

Parameter		LVDS	LVPECL	Units
Frequency Range ^{*1}		40.000000-800.000000		MHz
Frequency Stability*1	All Causes (Max)*2	Per C	Option	ppm
Frequency Adjustment	Control Voltage Range	10 to 90		%Vcc
	Absolute Pull Range (APR) (Min)	±50		ppm
	Linearity (Max)	10		%
	Input Impedance (Min)	50K		Ω
	Modulation Bandwidth (Min)	10		KHz
Temperature Range ^{*1}	Operating	Per Option		°C
	Storage	-55 to +125		
Supply Current (Max)	No Load	40	65	mA
Load		100Ω Between Outputs	50Ω Into Vcc-2V	
Duty Cycle	@ 50% Level	40 to 60% (45 to 55% option)		
Rise/Fall Times (Max)	Rise Time (20% to 80% Vcc)	0.4	0.5	nS
	Fall Time (80% to 20% Vcc)	0.4	0.5	
Start up Time (Max)		10		mS
Output Voltage Levels	High	1.43 Typ , 1.60 Max	Vcc-1.025 Min, Vcc-0.95 Typ Vcc-0.88 Max	V
	Low	0.90 Min , 1.10 Typ	Vcc-1.81 Min, Vcc-1.70 Typ Vcc-1.62 Max	
Differential Voltage		250 Min, 350 Typ, 450 Max	595 Min, 750 Typ, 930 Max	mV
Pin 2 (Tri-State)	Enable (High Voltage) (Min)	70		% Vcc
	Disable (Low Voltage) (Max)	30		% Vcc
Integrated Phase Jitter	12KHz to 20MHz	0.3 Typical , 1.0 Maximum	0.2 Typical , 1.0 Maximum	pS
Phase Noise (Typical For 155.52 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.

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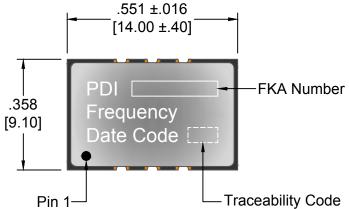


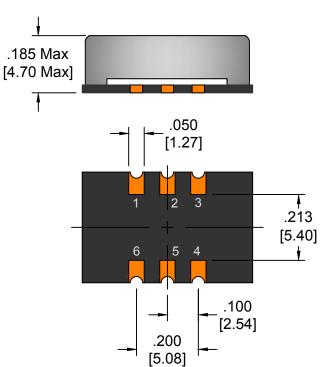
VC40-Series 14.00 x 9.10 x 4.70 (mm)

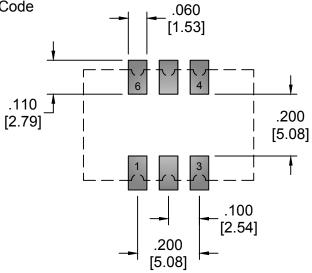
PACKAGE DIMENSIONS

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

PIN	CONNECTION	
1	Voltage Control	
2	Tri-State or NC	
3	Ground/Case	
4	Output	
5	Complementary Output	
6	Supply Voltage	







Recommended Pad Layout (Top View)







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.

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



VC40-Series 14.00 x 9.10 x 4.70 (mm)

- 1. Material: Black Conductive Polystyrene or equivalent.
- **2**. 10 Sprocket Hole pitch cumulative tolerance of \pm .008.
- **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.

