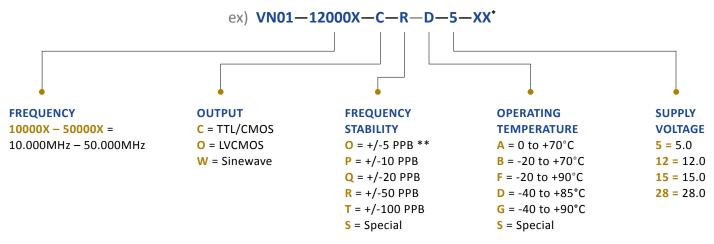
VN01-Series Specifications





36.20L x 27.18W x 16.81H (mm) 1.425L x 1.070W x 0.662H (in)

PDI VN01-Series Oven Controlled Crystal Oscillators (OCXO) ensures precise frequency under the most demanding circumstances. With low phase noise, performance in high vibration environments, and double-hermetically sealed quartz crystal, this OCXO can also be made available in custom frequencies. PDI provides fast sampling for your proto-typing needs, mass production capability, and competitive pricing.

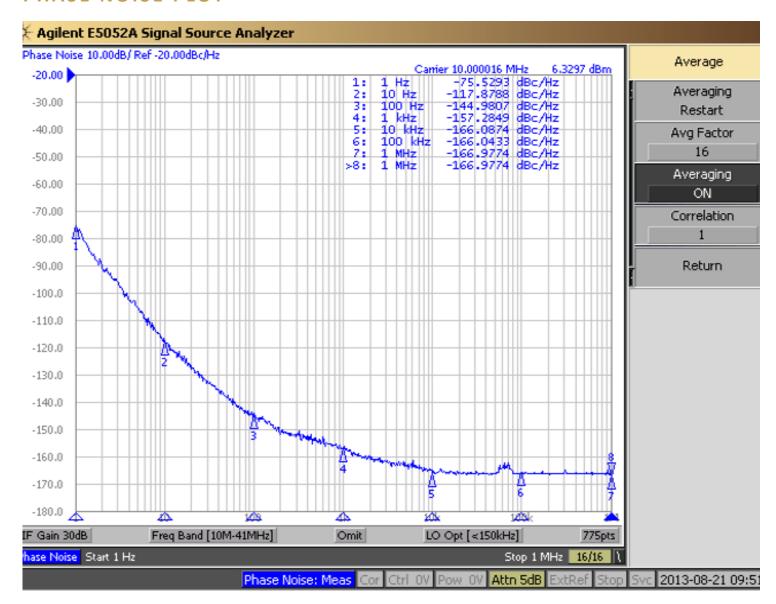


^{** -} Only available with A and B Operating Temperature Options.
* - for standard or assigned for customization.

Parameter		Su	Supply Voltage Range (±5%)		
			5.0 to 28.0		
Frequency Range			10.000000 to 50.000000	MHz	
Frequency Stability	vs Temperature (Max.)		Per Option		
	vs Supply Voltage (Max. for a 5%	charge)	±2.0		
	vs Load (Max. for a 10% charge)		±2.0		
	vs Aging (Max. per year)		±200		
	Calibration (@ +25°C) 3 Minutes After Switch On (Ma	ax.)	±100		
	Operating		Per Option		
Temperature Range	Storage		-55 to +85		
	Frequency Tuning (Min.)		±500	ppb	
	Voltage Control Range		0.0 to Vref		
Frequency Adjustment	Reference Voltage Output (±2.0%)		+5.0		
	Slope		Monotonic and Positive		
	Linearity (Max.)		10		
Supply Power	During 3 Minutes After Switch O	n (Max.)	6.0		
	Steady State @ 25°C (Max.)		2.5		
Output	TTL/CMOS or LVCMOS		5.0		
	Sinewave		0.0 to 6.0		
Load (±10%)	TTL/CMOS or LVCMOS		15		
	Sinewave		50		
Phase Noise (Typical) (10MHz @ +12Vdc)	@ 1 Hz		-77		
	@ 10 Hz		-118		
	@ 100 Hz		-144		
	@ 1 kHz		-156		
	@ 10 kHz		-164		
	@ 100KHz		-165		
	REV: NA	IZE: A	CAGE: A	1 of 3	



PHASE NOISE PLOT









NOTES:

All product supplied in anti-static packaging.

All product is supplied RoHS and REACH compliant.

All tests are performed in Still Air test conditions, unless otherwise stated. Specifications subject to change without notice, last updated 4/1/13.

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



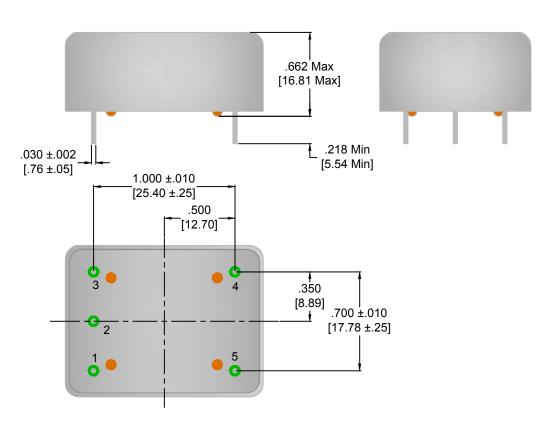
VN01-Series 36.20 x 27.18 x 16.00 (mm)

PACKAGE DIMENSIONS

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

	_	1.425 Max [36.20 Max]	
1.070 Max [27.18 Max]	F	PDI P/N Frequency Date Code □-	_Paper Label used for marking —Traceability Code

PIN	CONNECTION	
1	EFC or No Connect	
2	Vref or No Connect	
3	Supply Voltage	
4	Output	
5	Ground/Case	









NOTES:

All product supplied in anti-static packaging.

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All tests are performed in Still Air test conditions, unless otherwise stated. Specifications subject to change without notice, last updated 4/1/13.

REV: NA	SIZE: A	CAGE: A	3 of 3
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