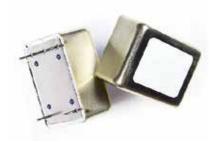
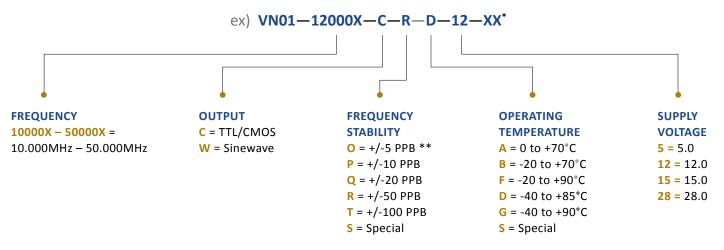
# **VN01-Series Specifications**





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.

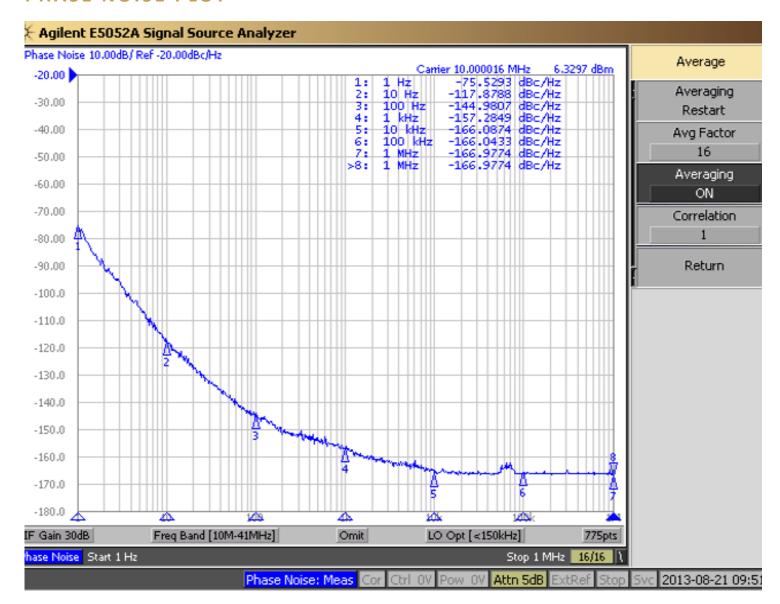


<sup>\*\* -</sup> Only available with A and B Operating Temperature Options. 
\* - for standard or assigned for customization.

Davamatav			Supply Voltage Range (±5%)			Units	
Parameter		5.0 to 28.0			V		
Frequency Range				10.000000 to 50.000000		MHz	
Frequency Stability	vs Temperature (Max.)			Per Option			
	vs Supply Voltage (Max. for	vs Supply Voltage (Max. for a 5% charge)		±2.0			
	vs Load (Max. for a 10% cha	vs Load (Max. for a 10% charge)		±2.0			
	vs Aging (Max. per year)	vs Aging (Max. per year)		±200		ppb	
	Calibration (@ +25°C) 3 Minutes After Switch O	n (Max.)		±100			
Temperature Range	Operating	` '		Per Option		°C	
	Storage			-55 to +85			
Frequency Adjustment	Frequency Tuning (Min.)			±500		ppb	
	Voltage Control Range			0.0 to Vref		V	
	Reference Voltage Output (	Reference Voltage Output (±2.0%)		+5.0		V	
	Slope	Slope		Monotonic and Positi	ve		
	Linearity (Max.)	Linearity (Max.)		10		%	
Supply Power	During 3 Minutes After Swi	ch On (Max.)		6.0		W	
	Steady State @ 25°C (Max.)	Steady State @ 25°C (Max.)		2.5		W	
Outout	TTL/CMOS	TTL/CMOS		5.0		V	
Output	Sinewave	Sinewave		0.0 to 6.0		dBm	
Load (±10%)	TTL/CMOS	TTL/CMOS		15		pF	
Load (±10%)	Sinewave	Sinewave		50		Ω	
Phase Noise (Typical) (10MHz @ +12Vdc)	@ 1 Hz	@ 1 Hz		-77		dBc/Hz	
	@ 10 Hz	@ 10 Hz		-118			
	@ 100 Hz	@ 100 Hz		-144			
	@ 1 kHz	@ 1 kHz		-156			
	@ 10 kHz	@ 10 kHz		-164			
	@ 100KHz	@ 100KHz		-165			
	REV: NA	SIZE: A		CAGE: A	<b>1</b> of <b>3</b>		



## 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

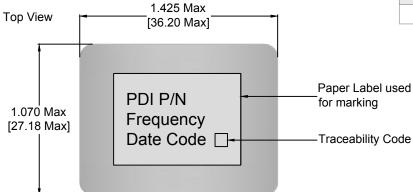


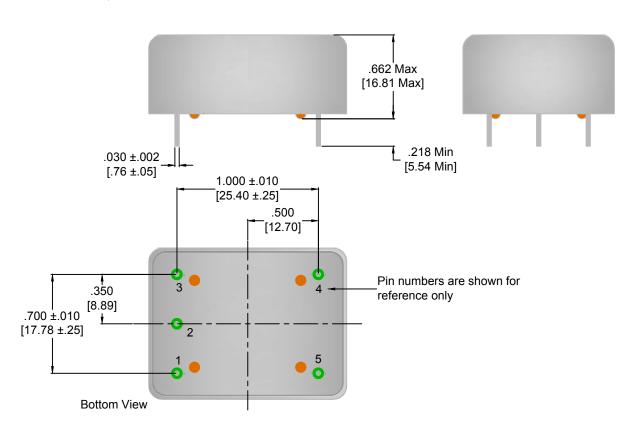
# VN01-Series 36.20 x 27.18 x 16.81 (mm)

## PACKAGE DIMENSIONS

Tolerance: ±.008 [.20mm] (Unless otherwise specified)

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.

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	3 of 3
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