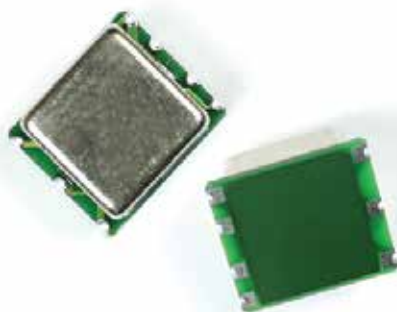


VN05-Series Specifications



25.40L x 22.00W x 13.00H (mm)

Wi2Wi's VN05-Series Oven Controlled Crystal Oscillators (OCXO) ensures precise frequency under the most demanding circumstances. With ultra-low phase noise, excellent performance in high vibration environments, and double-hermetically sealed quartz crystal, this OCXO can also be made available in custom frequencies. Wi2Wi provides sampling for your proto-typing needs, mass production capability, and competitive pricing.

ex) **VN05—12000X—C—R—D—5—XX***

FREQUENCY

10000X – 50000X =
10.000MHz – 50.000MHz

OUTPUT

C = TTL/CMOS
O = LVCMOS
W = Sinewave

FREQUENCY STABILITY

O = ±5 ppb
P = ±10 ppb
Q = ±20 ppb
R = ±50 ppb
T = ±100 ppb
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
12 = 12.0

*(XX) for standard or assigned for customization.

Parameter		Supply Voltage Range (±5%)	Units
		3.3 to 12.0	V
Frequency Range		10.000000 to 50.000000	MHz
Frequency Stability	vs Temperature (Max)	±5.0 to ±100	ppb
	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 (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 (±2.0%)	+5.0	V
	Slope	Monotonic and Positive	
	Linearity (Max)	10	%
Supply Power	During 3 Minutes After Switch On (Max)	5	W
	Steady State @ 25°C (Max)	1.5	W
Output	TTL/CMOS or LVCMOS	3.3 to 5.0	V
	Sinewave	0.0 to 6.0	dBm
Load (±10%)	TTL/CMOS or LVCMOS	15	pF
	Sinewave	50	Ω
Phase Noise (Typical)	@ 1 Hz	-90	dBc/Hz
	@ 10 Hz	-120	
	@ 100 Hz	-140	
	@ 1 kHz	-150	
	@ 10 kHz	-150	

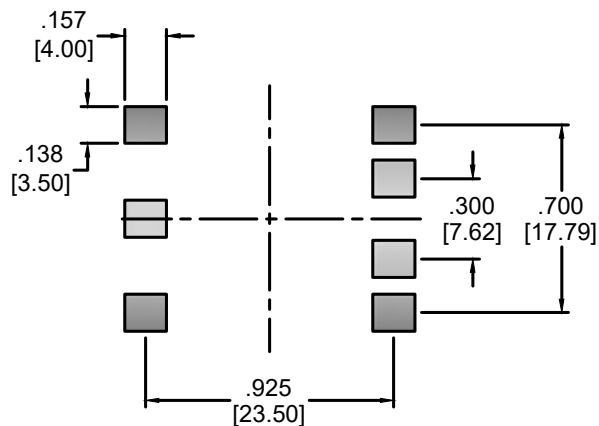
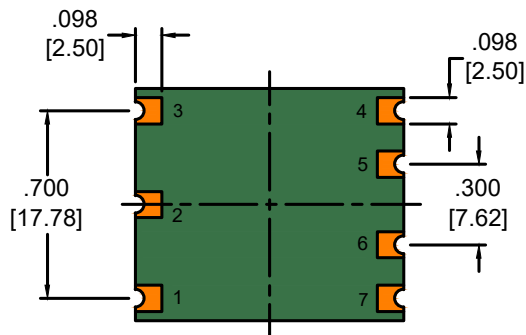
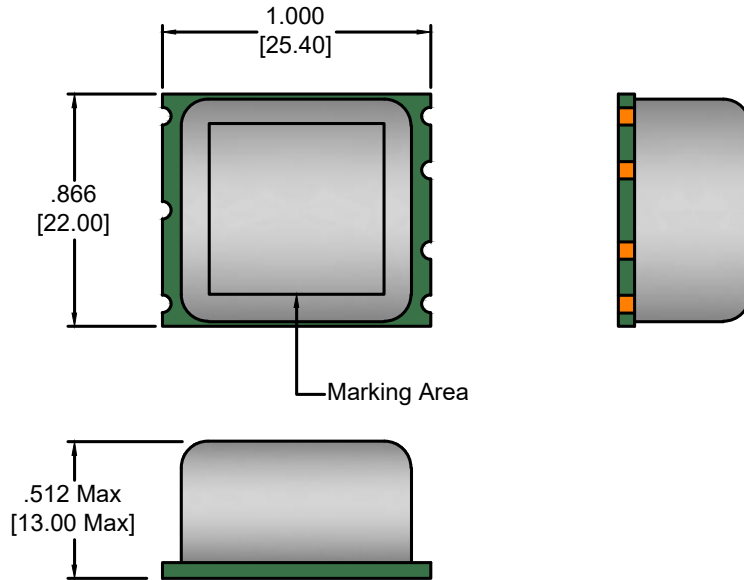
VN05-Series 25.40 x 22.00 x 13.00 (mm)



Wireless 2 Wireless

PACKAGE DIMENSIONS

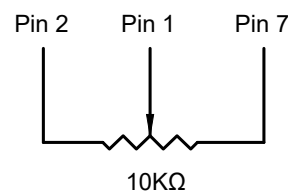
Tolerance: ± 0.008 [.20mm] (Unless otherwise specified)



Recommended Pad Layout
(Top View)

PIN	CONNECTION
1	EFC
2	Vref or No Connect
3	Supply Voltage
4	Output
5-6	No Connect
7	Ground/Case

External Frequency Adjust



All product is supplied **RoHS** and **REACH** compliant.
Specifications subject to change without notice.