

Euro-Style Low Noise High Stability OCXO

NVG47S Series

Description:

The NVG47S Ovenized Oscillator Series products provide a low noise highly stable frequency reference for base stations, test equipment, synthesizers, and digital switching applications.



Features:

- Available in frequencies from 5 to 13 MHz
- CMOS and Sine Wave output available
- RoHS-6 / Lead-free complaint available
- 5V and 12V available
- Phase Noise Options

Frequency Range, Operating Temperature, and Frequency Stability:

Frequency Range	Operating Temperature	Product Code	Frequency Stability	Product Code
5 to 13 MHz	-20 to +70° C	C	+/- 5 ppb	A
	-40 to +85° C	D	+/- 10 ppb	B
			+/- 20 ppb	C
			+/- 30 ppb	D

* +/-5ppb is not available with -40 to +85° C operating temperature range.
 ** For tighter frequency stabilities consult Bliley Sales.

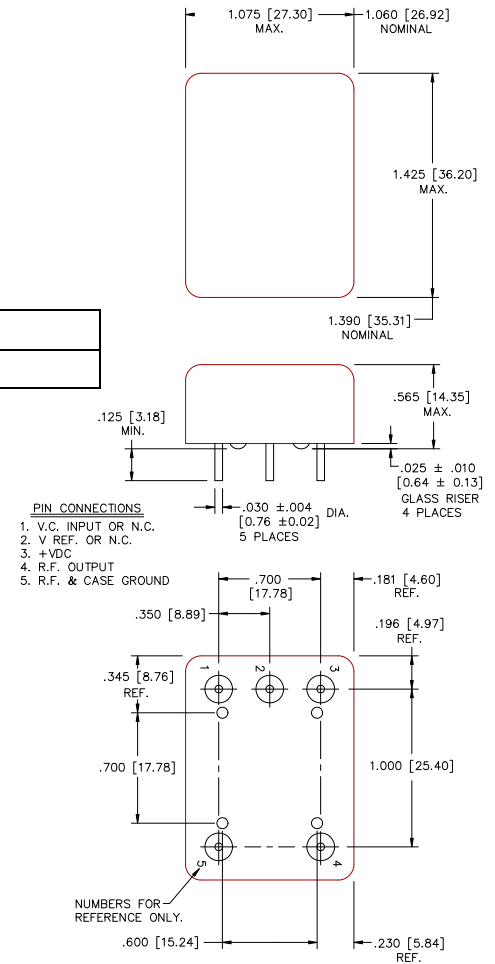
Aging: (typical at 10 MHz after 30 days continuous operation)

Frequency	Timeframe	Aging	Product Code
10 MHz	1 Year	Less than +/- 50 ppb	N/A

Phase Noise:

Frequency Offset	Option A Square Wave	Option B Sine Wave	Option C Sine Wave
1 Hz	-80 dBc/Hz	-90 dBc/Hz	-95 dBc/Hz
10 Hz	-115 dBc/Hz	-120 dBc/Hz	-125 dBc/Hz
100 Hz	-145 dBc/Hz	-150 dBc/Hz	-155 dBc/Hz
1 KHz	-150 dBc/Hz	-155 dBc/Hz	-160 dBc/Hz
10 KHz	-155 dBc/Hz	-160 dBc/Hz	-165 dBc/Hz
100 KHz	-155 dBc/Hz	-160 dBc/Hz	-165 dBc/Hz

Options B and C are not available with square wave out.
 Option C not available with +5VDC supply voltage



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Supply Voltage & Power Consumption:

Supply Voltage	5V +/-5%	12V +/-5%
Power Consumption	3.5W turn on power 1.5 steady state power	3.5W turn on power 1.5 steady state power
Product Code	A	B

Environmental:

Storage Temperature	-55 to +125° C
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Output Waveform:

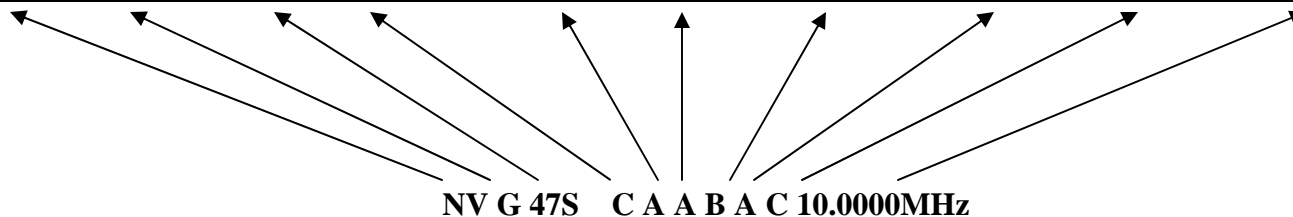
HCMOS		Sine Wave	
Waveform Description	Output Level	Waveform Description	Output Level
HCMOS Output Levels (15pf load)	“0” < 0.5V; “1” > 4.5V	Output Power	8 dBm typ.
Rise / Fall Time	< 10ns (10% to 90%)	Harmonics	-30 dBc
Duty Cycle	45% to 55% @ 50% Logic 1	Spurious	-75 dBc
Option A		Option B	

Pulling Range:

Turning Range (0V to 4V on Vcontrol)	None	+/- 0.5 ppm min.	+/- 1 ppm min.
Product Code	Option A	Option B	Option C

Ordering Options:

Type	Lead-free/ Leaded	Package Style	Operating Temp	Frequency Stability	Phase Noise	Supply Voltage	Output Waveform	Pulling Range	Operating Frequency
NV	G for ROHS/ blank for Non-ROHS	47S	C	A	A	A	A	A	xx.xxxxMHz
			D	B	B	B	B		
				C	C		C		
				D					



This example part number has the following specs:

RoHS compliant, -20 to +70C, +/- 5 ppb frequency stability, Option A phase noise, 12 volt supply HCMOS output, +/- 1 ppm pull range, and operating frequency of 10MHz