

# 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
- 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	<b>C</b>	+/- 5 ppb	<b>A</b>
	-40 to +85° C	<b>D</b>	+/- 10 ppb	<b>B</b>
			+/- 20 ppb	<b>C</b>
			+/- 30 ppb	<b>D</b>

\* +/-5ppb is not available with -40 to +85° C operating temperature range.

\*\* For tighter frequency stabilities or wider frequency range 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	<b>N/A</b>

### 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.

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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	<b>A</b>	<b>B</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
<b>Option A</b>		<b>Option B</b>	

### Pulling Range:

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

### Ordering Options:

Lead-free / Leaded	Operating Temp.	Frequency Stability	Phase Noise	Supply Voltage	Output Waveform	Pulling Range	Operating Frequency
R or NR	C	A	A	A	A	A	xx.xxxxMHz
R or NR	D	B	B	B	B	B	xx.xxxxMHz
R or NR		C	C			C	xx.xxxxMHz
R or NR		D					xx.xxxxMHz

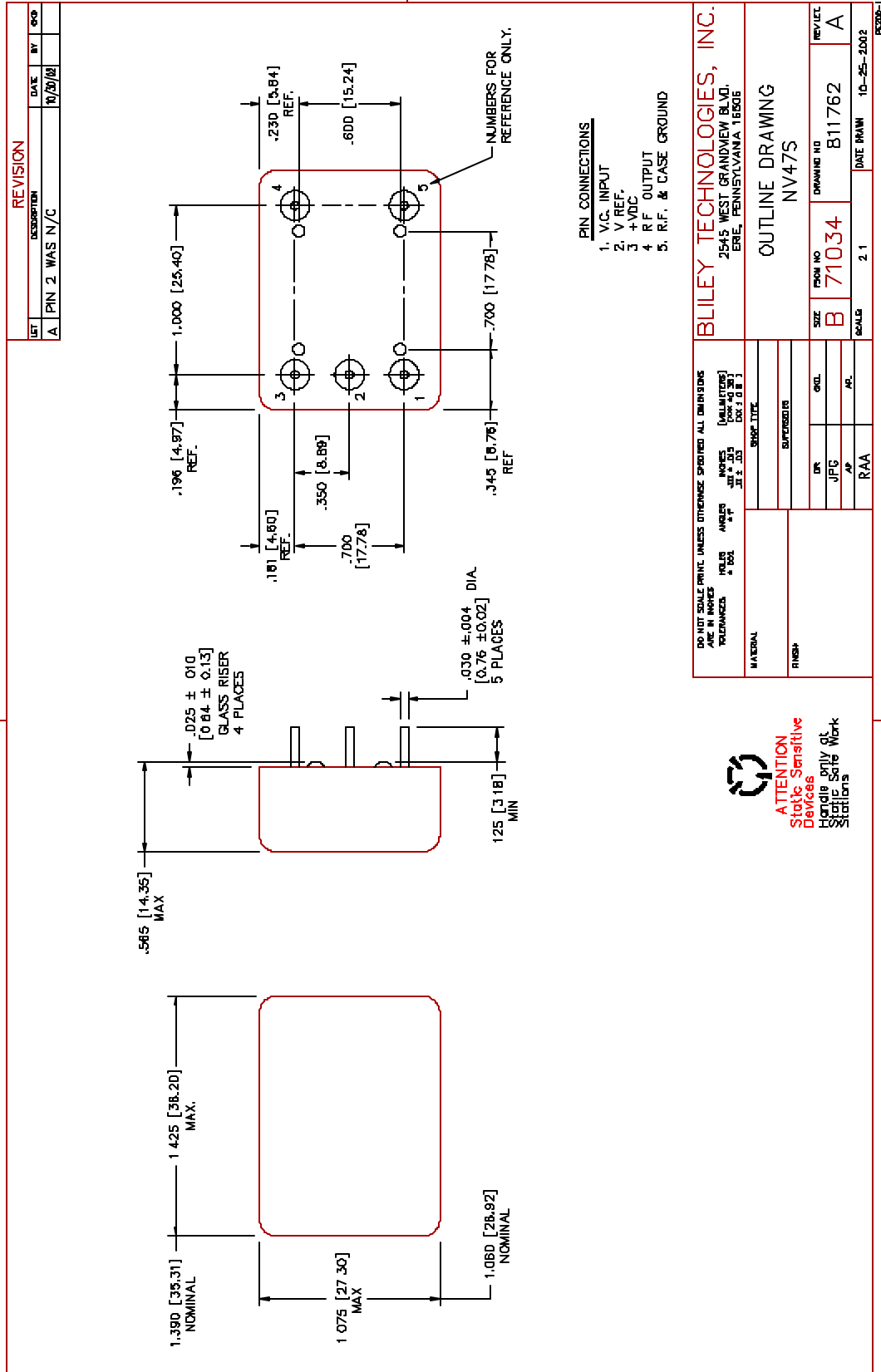
### Part Number Build Example:

NVG47S R C A A B A C 10.0000MHz

**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**

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## How to Order This Product:

Contact Bliley Technologies with Product Selection Code from Ordering Options Section above.

**Attn:**

Sales @ Bliley

Fax: **814-833-2712**

Phone: 814-838-3571

Email: [info@bliley.com](mailto:info@bliley.com)

Web: [www.bliley.com](http://www.bliley.com)

Date: \_\_\_\_\_

**From:**

Name: \_\_\_\_\_ Company: \_\_\_\_\_

Fax: \_\_\_\_\_ Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Quantities to Quote: \_\_\_\_\_ Target Price: \$ \_\_\_\_\_

Application / Reference #: \_\_\_\_\_