

Ultra Low Profile Super Single OCXO

NV47AG Series

Description:

The NV47AG Super Single Ovenized Crystal Oscillator Series provides an ultra-stable frequency reference at the lowest available standard height in the market for base stations, test equipment, synthesizers, and digital switching applications.



Features:

- Less than .5 inch in height
- Stability as low as +/- 1.0 ppb
- Available in frequencies from 5 to 13 MHz
- CMOS and Sine Wave output
- 5 or 12 volt supply
- RoHS-6 / Lead-free compliant
- 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	+/- 1.0 ppb	A
	-40 to +85° C	D	+/- 2.0 ppb	B
			+/- 3.0 ppb	C
			+/- 5.0 ppb	D

* +/-1ppb and +/- 2ppb are not available with -40 to +85° C operating temperature range.

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

Frequency	Timeframe	Aging
10 MHz	1 Year	Less than +/- 50 ppb

Phase Noise:

Frequency Offset	Option A Square Wave	Option B Sine Wave	Option C Sine Wave
1 Hz	-85 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	4.0W turn on power 1.5 steady state power	4.0W turn on power 1.5 steady state power
Product Code	A	B

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:

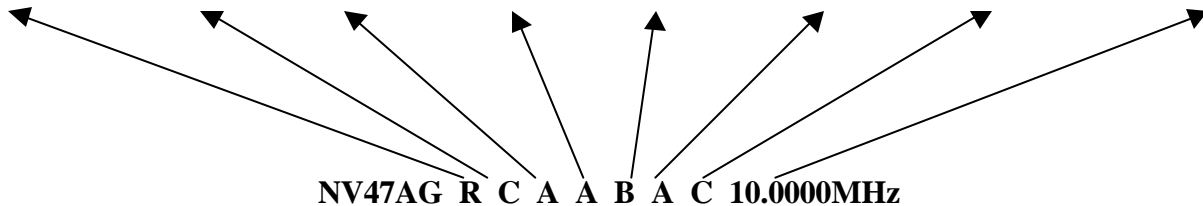
Turning Range (0V to 4V on Vcontrol)	None	+/- 0.5 ppm min.	+/- 1 ppm min.
Product Code	Option A	Option B	Option C

Environmental:

Storage Temperature	-55 to +125° C
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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

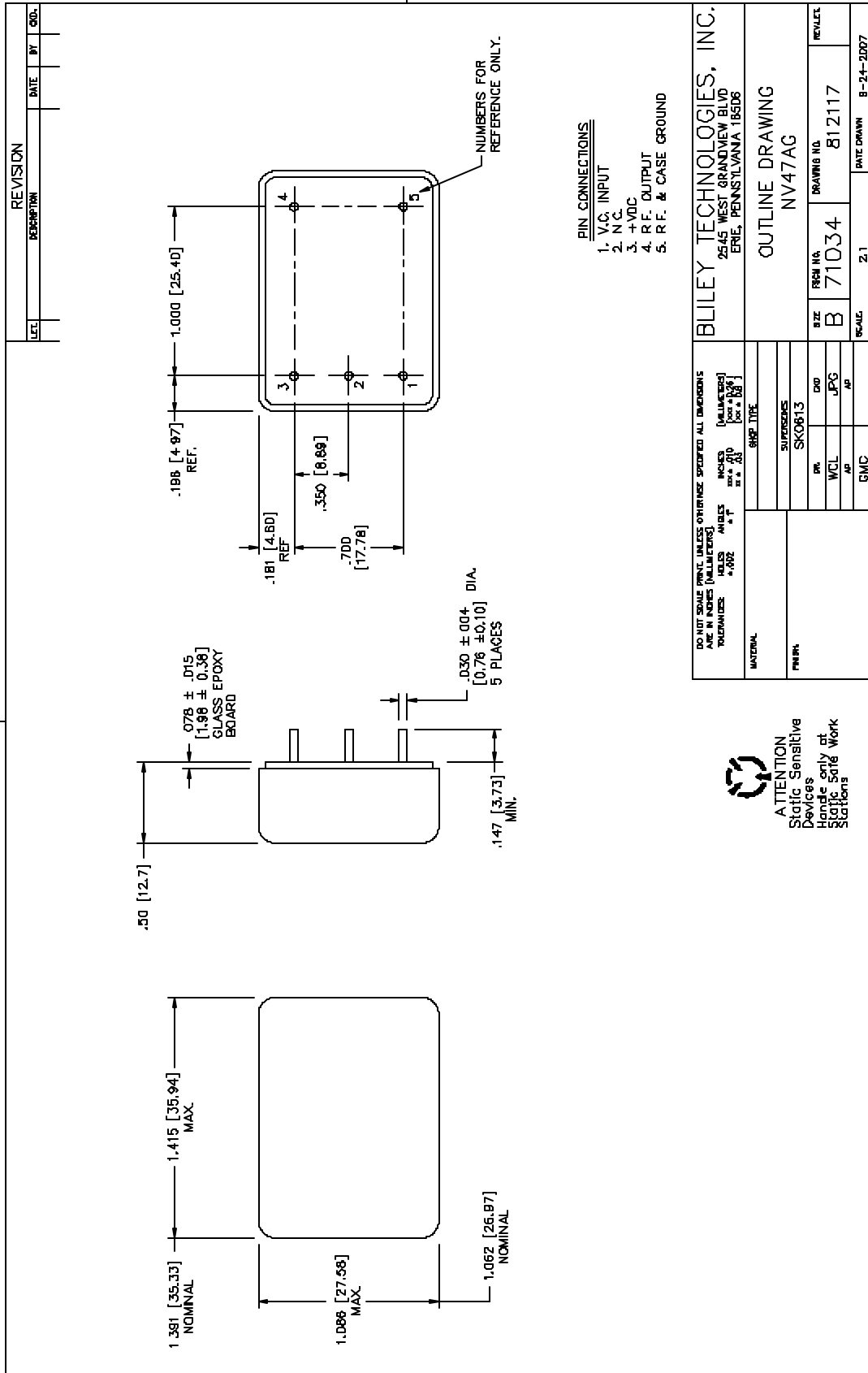


Product Selection Code (refer to the above example):

This part is RoHS compliant, -20 to +70C, +/- 1 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

Web: www.bliley.com

Date: _____

From:

Name: _____ Company: _____

Fax: _____ Phone: _____

Email: _____

Quantities to Quote: _____ Target Price: \$ _____

Application / Reference #: _____