

Bliley Technologies, Inc.

The Heartbeat of High-Tech for 75 Years

NV45G - 1" Sq. - 100 MHz Low Phase Noise OCXO

Series Features

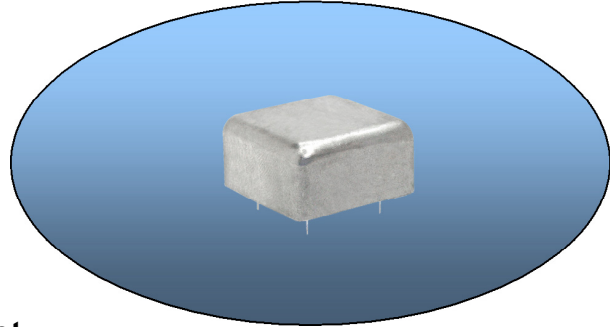
Freq Range: 100 MHz

Outputs: Sinewave

Supply: +12 or +15 Vdc

Package: 1" x 1" x 0.53"

Phase Noise: -130 dBc @ 100 Hz offset



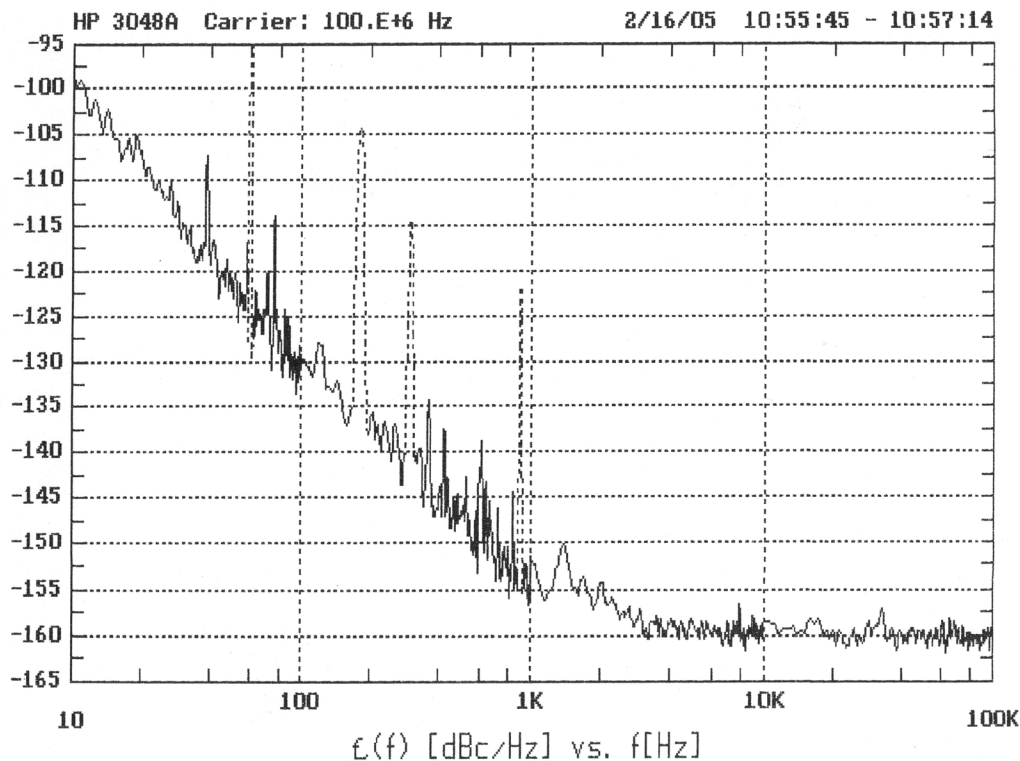
Output Frequency:	100 MHz	
Output:	Sinewave	
Sine Output Levels:	+7 dBm min into 50Ω load	
Harmonics:	-25 dBc max	
Spurious:	-75 dBc max	
Power Supply (Vs):	+12 or +15 Vdc ±5%	
At warm up	3.0 Watts	
Steady State @ +25°C	1.5 Watts	
Phase Noise (Typical):	<u>Offset</u>	<u>dBc/Hz</u>
	100 Hz	-130
	1k Hz	-150
	10k Hz	-155
	100k Hz	-160
Freq vs Temperature:		
0 to +50°C	< ±2 x 10 ⁻⁷	
0 to +70°C	< ±3 x 10 ⁻⁷	
-20 to +70°C	< ±4 x 10 ⁻⁷	
-40 to +85°C	< ±5 x 10 ⁻⁷	
<i>(Note: The above temperature ranges are standard. Custom Temperature ranges and stabilities are welcomed – please let us know your exact requirements if not listed above.)</i>		
Aging:	<5 x 10 ⁻⁷	Per Year
	<2 x 10 ⁻⁶	For 10 Years

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Frequency vs Supply: Frequency vs Load:	$<5 \times 10^{-8}$ per 5% change $<5 \times 10^{-8}$ per 5% change
Warm up:	@ +25°C (referenced to frequency @ 2 hours) $\pm 5 \times 10^{-7}$ in 5 minutes
EFC: Tuning Range: Tuning Slope: Control Voltage Range: Center Frequency: Input Impedance:	Electronic Frequency Control $\pm 3 \times 10^{-6}$ to $\pm 6 \times 10^{-6}$ Positive 0 to +5 Vdc $\pm 5 \times 10^{-7}$ at +25°C, $V_c = +2.5$ Vdc 100 k Ω min
Environmental Storage temperature: Mechanical shock: Vibration:	- 55 to +105 °C 500 G's, half-sine pulse @ 0.1 mSec, 3 axis 20 G's swept sine, 10 to 500 Hz

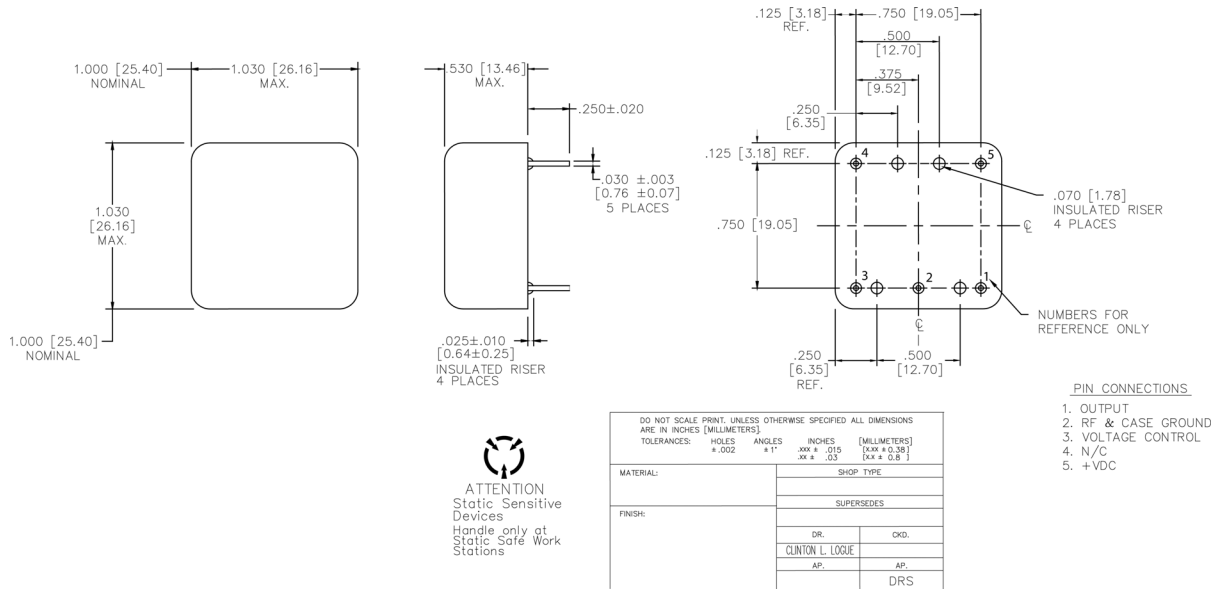
Typical Phase Noise Plot



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Outline Drawing and Pin Out



How to Request: (See last page for Request Form)

1. Specify Supply voltage - **+12 or +15 Vdc**
2. Specify Temperature Range and Stability over Temperature (see page 1 for standard offerings)

RHW 3-8-05

Rev-8Mar05

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 #: _____

NV45G OCXO Request Form

1. Frequency: 100 MHz

2. Output Type: **Sine +7 dBm**

3. Supply Voltage: **+12 Vdc** **+15 Vdc** other: _____
(circle one)

4. Temperature Range: _____ Stability vs. Temp: _____ PPB

Additional Specs: