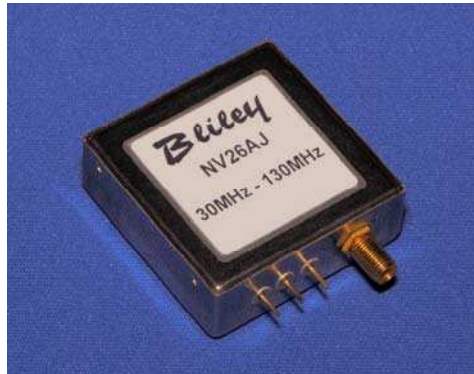


# Low Noise 30 to 130MHz OCXO

# NV26AJ Series

## Description:

Bliley Technologies NV26AJ series Crystal Oscillators are specifically designed and manufactured for applications requiring superior noise performance. These oscillators are ideal for phase-locked microwave signal sources such as DRO's, low noise test equipment, Communication systems, and Radar applications.



## Features Include:

- Excellent Temperature Stability
- High power output up to +15 dBm available
- Low profile package
- Excellent long-term aging
- Low power consumption (1 Watt typical at 25C )

## **Operating Frequency:**

30 to 130 MHz

## **Output:**

Sinewave: 10 dBm typical 15dBm max. Available  
 Harmonics: -30dBc max.  
 Spurious: -75dBc max.

## **Phase Noise Performance (Typical):**

Offset Frequency ( dBc/Hz )	Option A	Option B	Option C	Option D
	50 MHz (Typical)		100 MHz (Typical)	
100	-130	-135	-120	-130
1000	-152	-155	-150	-155
10000	-165	-165	-165	-165
100000	-165	-167	-165	-170

## **Frequency Stability Vs. Temperature Performance:**

Temp. range	Freq Stability (Opt. A)	Freq Stability (Opt. B)	Freq Stability (Opt. C)	Freq Stability (Opt. D)	Freq Stability (Opt. E)
0°C to 50°C (Option A )	+/- 50 ppb	+/- 100 ppb	+/- 200 ppb	+/- 500 ppb	+/- 1 ppm
0°C to 70°C (Option B )	N/A	+/- 100 ppb	+/- 200 ppb	+/- 500 ppb	+/- 1 ppm
-20°C to 70°C (Option C)	N/A	+/- 100 ppb	+/- 200 ppb	+/- 500 ppb	+/- 1 ppm
-40°C to 70°C (Option D)	N/A	N/A	+/- 200 ppb	+/- 500 ppb	+/- 1 ppm
-40°C to 85°C (Option E)	N/A	N/A	+/- 200 ppb	+/- 500 ppb	+/- 1 ppm



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### Aging

Frequency	Timeframe	Aging	Product Code
All	20 Years	+/- 1.25 ppm/Year, 20-Years (Typ)	N/A

### Supply Voltage and Power Consumption:

Option A		Option B	
12 Vdc +/- 5%		15 Vdc +/- 5%	
Turn-on Power	4.8W max.	Turn-on Power	4.8W max.
Steady-State	1.0 W typical at 25C	Steady-State	1.0 W typical at 25C

### Frequency Versus Voltage (Vcontrol = 0V to 10V)

Option A	Option B	Option C
+/- 1 ppm	+/- 2ppm	+/- 3 ppm

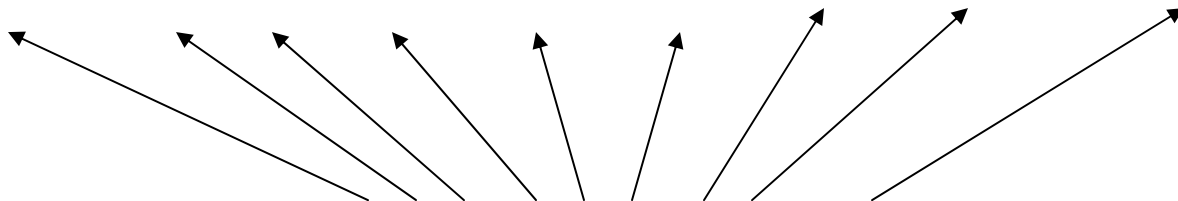
**\*\*Control Pin has 100Kohm input impedance.**

### Environmental:

Storage Temperature			-55C	85C
Shock	MIL-STD 202G	Method 213 Condition C		
Vibration	MIL-STD 202G	Method 204 Condition A		

### Ordering Options:

Type	Lead-free / Leaded	Package Style	Phase Noise	Temp. Range	Freq. Vs. Temp Stability	Supply Voltage	Frequency Vs. Voltage	Operating Frequency
NV	G for ROHS/ blank for Non-ROHS	26AJ	A	A	A	A	A	xx.xxxxMHz
			B	B	B	B	B	
			C	C	C		C	
			D	D	D			
			E	E	E			

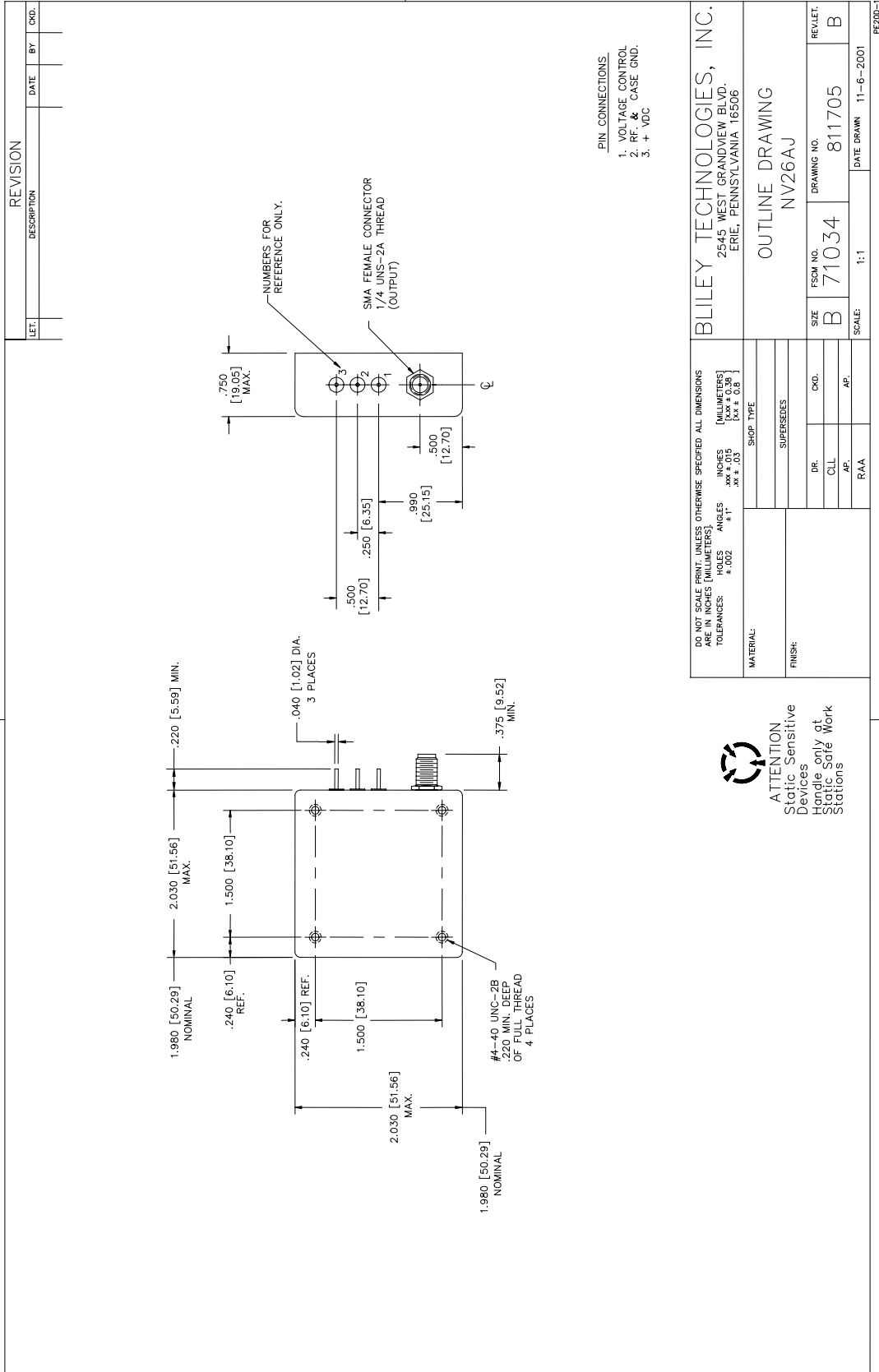


**NV G 26AJ C A A A C 100.0000MHz**  
**Product Selection Code (refer to the above example)**

# Low Noise 30 to 130MHz OCXO

# NV26AJ Series

## Outline Drawing & Pin Out:



<b>BLILEY TECHNOLOGIES, INC.</b>	
2545 WEST GRANDVIEW BLVD. ERIE, PENNSYLVANIA 16506	
<b>OUTLINE DRAWING NV26AJ</b>	
DO NOT SCALE PRINT. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) TOLERANCES: DIMENSIONS IN INCHES: .002 ± .002 ANGLES: ± 11° INCHES: .002 ± .015 [MAX ± 0.38] [MIN ± 0.18] MILLIMETERS: .02 ± .03	MATERIAL: SHIP TYPE: SUPERSIDES:
FINISH:	
DR. _____	CHK. _____
CLL _____	AP. _____
RAA _____	RAA _____
SIZE: B	FSOM NO.: 71034
DRAWING NO.: 811705	REVLET: B
SCALE: 1:1	DATE DRAWN: 11-6-2001


**ATTENTION**  
 Static Sensitive  
 Devices  
 Handle only at  
 Static Safe Work  
 Stations



# Low Noise 30 to 130MHZ OCXO

# NV26AJ Series

### How to Order This Product:

Contact Bliley Technologies with Product Selection Code from the worksheet or Product Information Request Form.

**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 #: \_\_\_\_\_