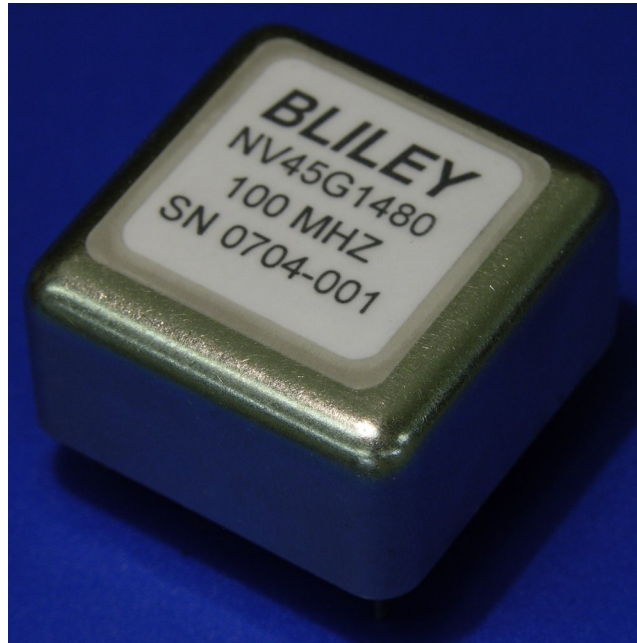


# Low Noise. OCXO NV45G1480

## Description:

The NV45G1480 Ovenized Crystal Oscillator is a 100MHz product specifically targeted to applications requiring superior noise performance out to a 100KHz offset. It is ideal for phase-locked microwave signal sources such as DRO's, low noise test equipment, microwave com. systems, and Radar applications.



## Features:

- Tight Stabilities
- +/- 50 ppb over temp.
- High power output of 15 dBm available
- Low profile package 0.53 inches max.
- Excellent long-term aging
- Low power consumption 1 Watt typical at 25C

## **Operating Frequency:**

100 MHz

## **Output Waveform:**

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

## **Frequency Stability Versus Temperature:**

Temp. range	F vs. T ( Option A )	F vs. T ( B )	F vs. T ( C )	F vs T ( D )
0C to 70C ( option A )	+/- 50 ppb	+/- 100 ppb	+/- 150 ppb	+/- 200 ppb
-20C to 70C ( B )	N/A	+/- 100 ppb	+/- 150 ppb	+/- 200 ppb
-40C to 70C ( C )	N/A	+/- 100 ppb	+/- 150 ppb/	+/- 200 ppb/
-40C to 85C ( D )	N/A	N/A	N/A	+/- 200 ppb

## **Phase Noise ( Options are worst case performance or better )**

Offset Frequency	Option A ( dBc/Hz )	Option B ( dBc/Hz )	Option C ( dBc/Hz )
10	-100	-95	-90
100	-130	-125	-120
1000	-155	-155	-152
10000	-165	-162	-160
100000	-168	-165	-162

## **Aging**

Frequency	Timeframe	Aging	Product Code
All	For 20 Years	+/- 1.25 ppm	N/A

### Voltage and Power Consumption:

12 Vdc +/- 5%			
Turn-on Power	4.8W max.	Steady-State	1.0 W typ. at 25C

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

Option A	Option B	Option C
=/- 1 ppm	+/- 2ppm	+/- 3 ppm
	Not available with Phase Noise option A	Not available with Phase Noise option A

### Environmental:

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

### Ordering Options:

	Phase Noise	Temp. Range	Freq. Vs. Temp Stability	Frequency Vs. voltage
N45G1480	A	A	A	A
	B	B	B	B
	C	C	C	C
		D	D	

Note: Not all combinations are available.

