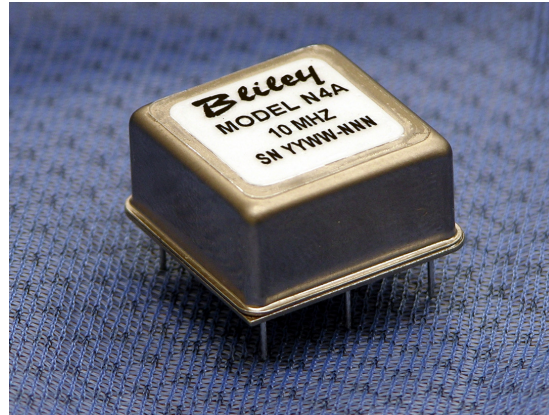


### Description:

The N4A Series OCXO is where price and performance meet. This 20mm square Package is less than 10mm high and offers exceptional price vs. Performance value.

The NV4A Series OCXO are An excellent choice for Network and Timing Applications.



### Features:

- Excellent Frequency vs. Temperature Stability
- Available with +3.3VDC or +5VDC supply voltage
- Output Level LVCMOS or HCMOS
- Available with SMT Option in slightly larger package
- RoHS 5

### Phase Noise:

Frequency Offset	Option A Square Wave	Option C Square Wave
1 Hz	-80 dBc/Hz	-65 dBc/Hz
10 Hz	-120 dBc/Hz	-100 dBc/Hz
100 Hz	-140 dBc/Hz	-120 dBc/Hz
1 KHz	-145 dBc/Hz	-140 dBc/Hz
10 KHz	-150 dBc/Hz	-145 dBc/Hz

### Output Waveform:

HCMOS Type 4	LVCMOS Type 3
Level "0": 0 to 0.5 V Level "1": 3.8 to 5 V	Level "0": 0 to 0.3V Level "1": 2.8 to 3.3V
< 4 nsec Rise/Fall Time	< 4 nsec Rise/Fall Time
50 +/- 5% Duty Cycle	50 +/- 5% Duty Cycle
5V Supply Only	3.3V Supply Only

### Supply Voltage & Power Consumption:

Supply Voltage	3.3V +/-10%	5V +/-10%	5V +/-10%
Power Consumption	3.0W Startup Power 1.3W Steady State	3.0W Startup Power 1.0W Steady State	3.0W Startup Power 1.3 Steady State
		Phase Noise option A	Phase Noise Option C
Product Code	C	D	D

### Operating Temperature and Frequency Stability:

Temperature Range Code	Operating Temperature	Stability Code +/- 200 ppb	Stability Code +/- 150 ppb	Stability Code +/- 20 ppb	Stability Code +/- 10 ppb
		Phase noise option C		Phase Noise Option A	
3	-20 to +70°C	N/A	G	N/A	B
5	-40 to +85°C	H	N/A	D	N/A

### Pulling Range (Positive Slope):

Available only with Phase Noise Option		C	A
Supply 5VDC	Tuning Range (0V to 4V on Vcontrol)	+/-10 ppm	.8ppm min./2.4ppm max.
	<b>Product Code</b>	<b>Option E</b>	<b>Option C</b>
Supply 3.3VDC	Tuning Range (0 to 3.3V on Vcontrol)	+/-10 ppm	.8ppm min./2.4ppm max.
	<b>Product Code</b>	<b>Option F</b>	<b>Option B</b>

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

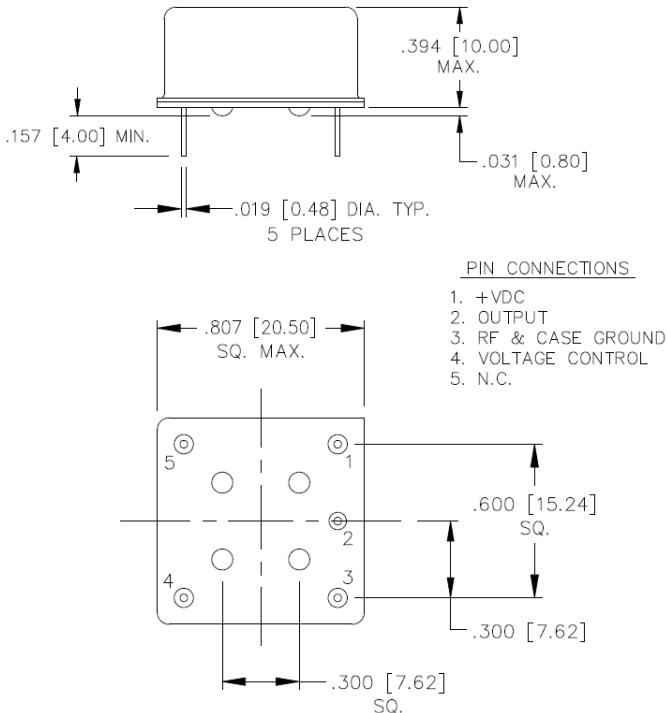
Frequency	Timeframe	Aging	
10 MHz	1 Year	Less than .5ppm	Phase Noise Option C
10 MHz	1 Year	Less than .1ppm	Phase Noise Option A

### Ordering Options:

Model #	Phase Noise	Operating Temp	Freq vs. Temp Stability	Supply Volt	Output Type	EFC	Frequency	Customer Option
N4A	A	3	B	C	3	B	8 to 30MHz	S
	C	5	D	D	4	C		
			G			E		
			H			F		

Part number format N4A-LNL-LNL-10M (Use -S at end for Surface Mount)

### STANDARD PACKAGE OUTLINE



### SMT OPTION OUTLINE

