

Miniature High Performance NV79A / NVG79A OCXO & OCVCXO

Description:

The NVG79A Series Ovenized Crystal Oscillator Series offers high stability Frequency vs. Temperature performance and SC Cut Crystal Phase Noise performance in a DIP configuration. It is ideally suited for base station, test equipment, synthesizers, and digital switching applications.



Features:

- Available in Frequencies from 10 MHz to 50 MHz
- HCMOS and Sine Wave Output
- 3.3 volts and 5V supply voltage is available.
- Phase Noise Options
- RoHS-6/Leadfree Compliant
- Storage Temperature Range of -55°C to 125°C

Voltage Control:

DC Supply Voltage	3.3VDC	+5VDC
Pull Range ± 0.80 ppm min Positive Slope	0-3V	0-5.0V

Phase Noise	Option A	Option B
1 Hz	-90 dBc/Hz	-85 dBc/Hz
10 Hz	-125 dBc/Hz	-120 dBc/Hz
100 Hz	-145 dBc/Hz	-142 dBc/Hz
1 KHz	-152 dBc/Hz	-148 dBc/Hz
10KHz	-158 dBc/Hz	-155 dBc/Hz
100KHz	-158 dBc/Hz	-155 dBc/Hz

Operating Temperature and Frequency Stability:

Temperature Range Code	Operating Temperature	Stability Code +/- 50 ppb	Stability Code +/- 85 ppb
A	-20 to +70°C	A	N/A
B	-40 to +85°C	N/A	B

Supply Voltage & Power Consumption:

Supply Voltage	3.3V +/-5%	5V +/-5%
Power Consumption	3.75 W Startup Power 2.0 W Steady State	3.75 W Startup Power 2.0 W Steady State
Product Code	A	B

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Output Waveform:

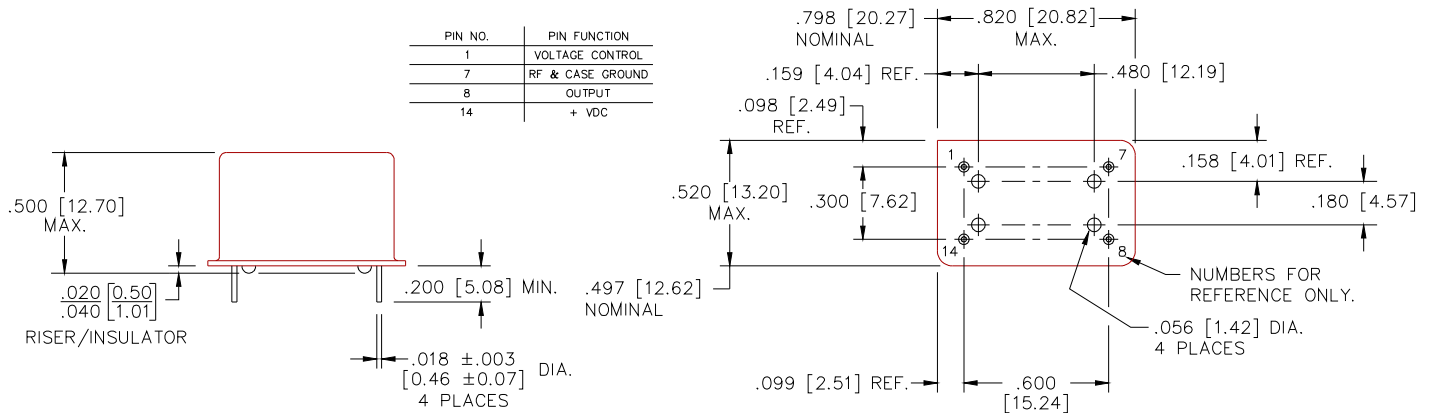
Product Code	
A	B
Sine Wave	HCMOS
8 dBm typ. Output Level	Level "0": 0 to 0.4 V Level "1": 4.5 to 5 V
-30 dBc Harmonics	< 7 nsec Rise/Fall Time (10% to 90% level)
-75 dBc Spurious Response	50 +/- 5% Duty Cycle

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

Frequency	Timeframe	Aging
10 – 50MHz	1 Year	Less than +/- 150 ppb
	10 Years	Less than +/- 500 ppb

Stability vs. Supply and Load

Frequency	Supply	Load
10MHz – 50MHz	±5%	±5%
	±15ppb	±15ppb



Ordering Options:

	Phase Noise	Temp. Range	Frequency Stability	Supply Voltage	Output Waveform	Operating Frequency*
NV79A	A	A	A	A	A	5M0 To 50M0
NVG79A (RoHs)	B	B	B	B	B	

*Trailing Zeros Will Be Omitted In Final Part Number