

Euro-Style Low Noise NV47AE / NVG47AE, Low Profile High Stability OCXO

Description:

The N47AE Ovenized Crystal Oscillator Series is designed for VMA slot applications and provides a low noise, ultra-stable frequency reference for base stations, test equipment, synthesizers, and digital switching applications.



Features:

- Frequencies from 5 to 13 MHz
- HCMOS and Sine Wave Output
- 5 or 12 Volt Supply
- Multiple phase noise options
- RoHS-6 / Lead-free Compliant
- Storage Temperature Range of -55°C to 125°C

Voltage Control Range: N47AE NV47AE

Turning Range (0V to 4V on Vcontrol)	None	+/- 0.5 ppm min.
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Operating Temperature and Frequency Stability:

Temperature Range Code	Operating Temperature	Stability Code ± 5 ppb	Stability Code ± 10 ppb	Stability Code ± 20 ppb	Stability Code ± 30 ppb
A	0 to +50°C	A	B	C	D
B	-20 to +70°C	A	B	C	D
C	-40 to +85°C	N/A	B	C	D

Phase Noise:

Frequency Offset	Option A HCMOS Output	Option B Sine Wave Output only	Option C Sine Wave Output only
1 Hz	-80 dBc/Hz	-90 dBc/Hz	-95 dBc/Hz
10 Hz	-115 dBc/Hz	-120 dBc/Hz	-125 dBc/Hz
100 Hz	-145 dBc/Hz	-150 dBc/Hz	-155 dBc/Hz
1 KHz	-150 dBc/Hz	-155 dBc/Hz	-160 dBc/Hz
10 KHz	-155 dBc/Hz	-160 dBc/Hz	-165 dBc/Hz
100 KHz	-155 dBc/Hz	-160 dBc/Hz	-165 dBc/Hz

Options "C" not available +5VDC Supply Voltage.

Frequency	Timeframe	Aging
10 MHz	1 Year	Less than +/- 50 ppb

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

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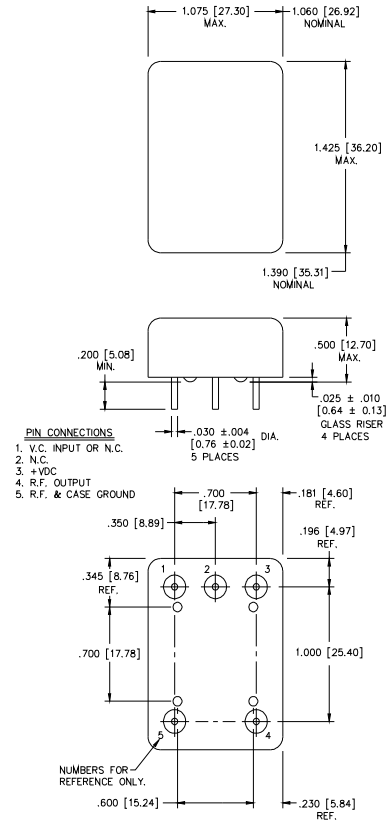
Supply Voltage & Power Consumption:

Supply Voltage	5V +/-5%	12V +/-5%
Power Consumption	3.5W Startup Power 1.5 W Steady State	3.5W Startup Power 1.5 W Steady State
Product Code	A	B

Output Waveform:

Sine Wave Type A	HCMOS Type B*
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
-75 dBc Spurious Response	50 +/- 5% Duty Cycle

*HCMOS Only Available with +5 VDC Supply



Ordering Options:

Model OCXO	Temp. Range	Frequency Stability	Phase Noise	Supply Voltage	Output Waveform	Operating Frequency*
N47AE For Leaded Part	A	A	A	A	A	5M0
	B	B	B	B	B	To
NG47AE For ROHS Part	C	C	C			13M0
		D				

Model OCVCXO	Temp. Range	Frequency Stability	Phase Noise	Supply Voltage	Output Waveform	Operating Frequency*
NV47AE For Leaded Part	A	A	A	A	A	5M0
	B	B	B	B	B	To
NVG47AE For ROHS Part	C	C	C			13M0
		D				

*Trailing Zeros Will Be Omitted In Final Part Number