

Ultra Low Profile Super Single OCXO

NV47AJ Series

Description:

The NV47AJ Super Single Ovenized Crystal Oscillator Series provides an ultra-stable frequency reference in conjunction with excellent phase noise for markets including base stations, test equipment, synthesizers, and digital switching applications.



Features:

- Stability as low as +/- 1.0 ppb
- Available in frequencies from 5 to 13 MHz
- CMOS and Sine Wave output
- 5 or 12 volt supply
- RoHS-6 / Lead-free compliant
- Phase Noise Options

Frequency Range, Operating Temperature, and Frequency Stability:

Frequency Range	Operating Temperature	Product Code	Frequency Stability	Product Code
5 to 13 MHz	0 to +50°C	C	+/- 1.0 ppb	A
	-20 to +70°C	D	+/- 2.0 ppb	B
	-40 to +85°C	E	+/- 3.0 ppb	C
			+/- 5.0 ppb	D

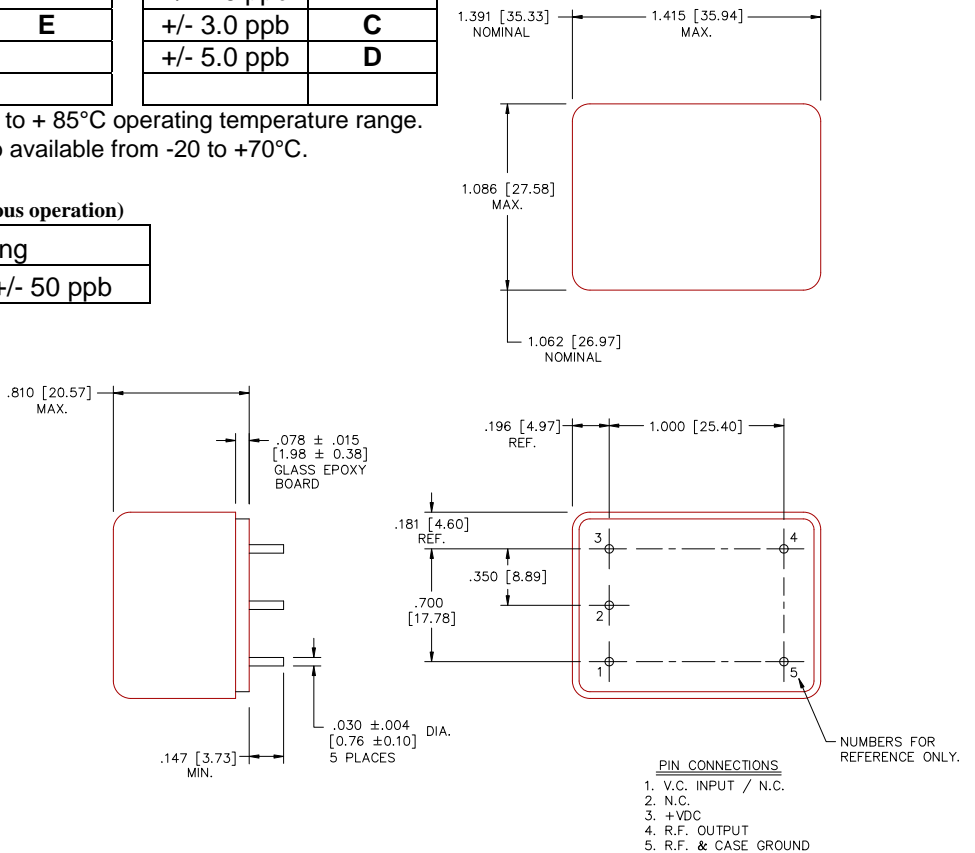
* +/-3ppb and +/-5ppb are available with -40 to +85°C operating temperature range.
 * +/-1ppb available from 0 to +50°C ; +/-2ppb available from -20 to +70°C.

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

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

Phase Noise:

Frequency Offset	10 MHz. Sine Wave
1 Hz	-90 dBc/Hz
10 Hz	-120 dBc/Hz
100 Hz	-150 dBc/Hz
1 KHz	-155 dBc/Hz
10 KHz	-160 dBc/Hz
100 KHz	-160 dBc/Hz



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Supply Voltage & Power Consumption:

Supply Voltage	5V +/-5%	12V +/-5%
Power Consumption	4.0W turn on power 1.5 steady state power	4.0W turn on power 1.5 steady state power
Product Code	A	B

Output Waveform:

Waveform Description	Output Level
Output Power	8 dBm typ.
Harmonics	-30 dBc
Spurious	-75 dBc

Pulling Range:

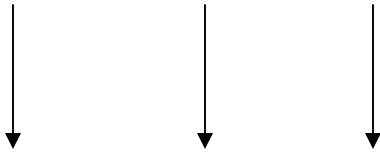
Turning Range (0V to 4V on Vcontrol)	None	+/- 0.5 ppm min.
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Environmental:

Storage Temperature	-55 to +125° C
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Ordering Options:

Operating Temp	Frequency Stability	Supply Voltage	Operating Frequency
C	A	A	10M0
D	B	B	10M0
E	C		10M0
	D		10M0



NV47AJ ___ ___ ___ 10M0

Product Selection Code (refer to the above example):

This part is RoHS compliant, -20 to +70C, +/- 1 ppb frequency stability, Option A phase noise, 12 volt supply, HCMOS output, +/- 1 ppm pull range, and operating frequency of 10MHz