

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.

