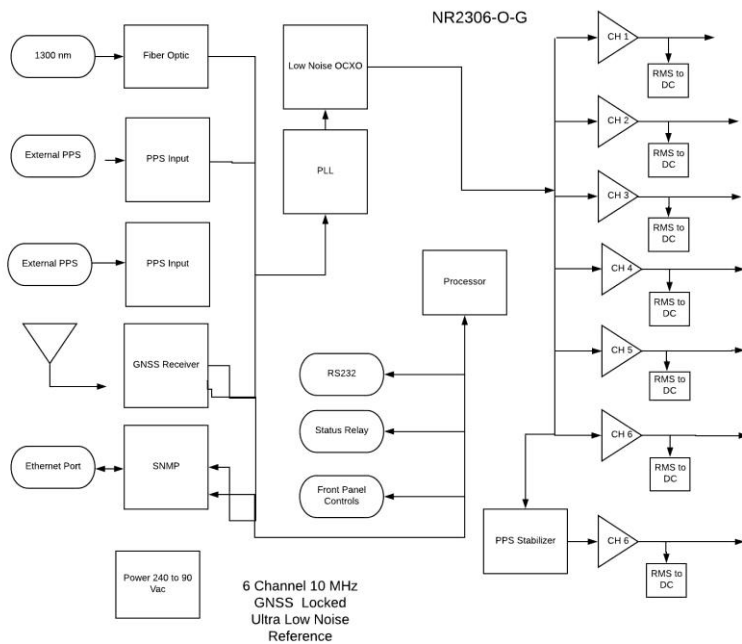


NR3626-CAL

6-Channel 10 MHz OCXO Based GNSS Locked Reference

KEY FEATURES



The NR3620 is a high performance 10 MHz frequency reference that is driven by a low phase noise SC cut OCXO disciplined by a 26 channel GNSS receiver. The unit also offers the flexibility to be locked to an external 10 MHz, external PPS or external 1300 nm fiber source.

Product Highlights



Six Configurable Channels

Six transient and fault protected channels.

GNSS Locked

The 26 channel high-sensitivity, high-accuracy Multi-GNSS receiver. Supports TRAIM, GPS, GLONASS, QZSS, SBAS, Active Anti-Jamming and Advanced Multipath Mitigation Functions.

Low Phase Noise

Phase Noise	
Offset	dBc/Hz
10	-125
100	-140
1K	-145
10K	-150

Technical specifications

10MHz sine	13 ±2 dBm ,50 Ohm - BNC
Harmonics	Less than -30 dBc
Locked stability	<~E-12 @ 100s (see Allan Deviation curve) After 30 mins (Post GNSS lock + Crystal Warmup 10 mins)
First year frequency stability	±50 ppb (long-term unlocked)
Temp stability	±10 ppb (long-term unlocked)
Yearly aging	±50ppb (long-term unlocked)
PPS accuracy	15ns(1σ) (@-130 dBm) 50ns(1σ) (@-150 dBm)
Receiver sensitivity	-155dBm antenna power 3.3 Vdc<30 ma
PPS	15ns(1σ) (@-130 dBm) 50ns(1σ) (@-150 dBm) RMS accuracy, 3.3 volt logic, output impedance CMOS (±20ma) P-P jitter< 20 ns
PPS stabilizer	100 ns RMS accuracy, pulse to pulse jitter < 1000 ps
Power requirements	Standard configuration is 12VDC (9 to 15VDC) Options- ±24VDC (20 to 30VDC), ±48VDC (40 to 60VDC) AC adapter available 100 to 240VAC, 50/60Hz
Connectors	BNC 10 MHz output
	BNC 10 MHz input
	BNC PPS (3.3 VDC CMOS) (assigned when ordered)
Power connector	4-pin Power Con - power in, Digkey mates with 277-1002-ND

Environmental and Mechanical

Operating temperature	0 to 50°C non-condensing (extended temperature range available)
Storage temperature	-40 to 70°C
Width	6.0"

Depth	6.0" (exclusive of connectors)
Height	1.58 "
Weight	~16 oz.

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