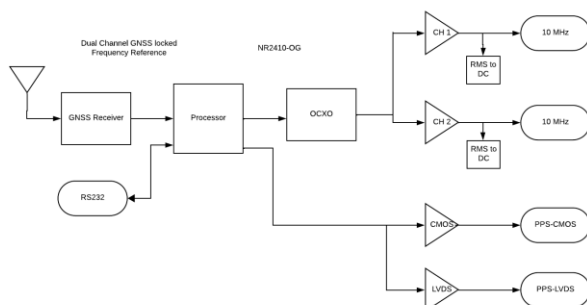


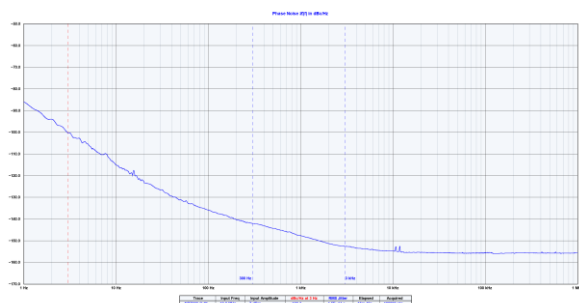
NR2410-OG

10MHz, Low Noise, Dual Channel, GNSS Locked, Desk-Top, Frequency Reference



Phase Noise

Offset Frequency (Hz)	Typical (dBc / Hz)
10	-115
100	-135
1K	-145
10k	-155



High Performance reference featuring the low phase noise OCXO with the long-term stability of GNSS locking. PPS at CMOS levels capable of driving a 50 Ohm load. PPS is also available LVDS. NMEA data available on serial port

Technical Specifications

Output	10 MHz, 1.0 Vrms ± 0.2 , into 50 Ohms, two channels, Sine
Harmonic Distortion	< -30 dBc
Connectors	BNC
PPS	
Amplitude for 1PPS	3.3 Vdc CMOS (5 Vdc option)
Pulse width for 1PPS	Programmable 1 to 500ms in 1 usec steps
Rise time for 1PPS	<2 ns
Connector	SMA
Load Impedance	50 Ohm
PPS LVDS	Three pin connector on rear (Phoenix 1757255, mates with 1757022)
Location	rear
GNSS receiver	GPS L1 C/A, GLONASS L1OF, QZSS L1 C/A, SBAS L1 C/A (Ready): Galileo E1B/E1C, QZSS L1S
Channels	26 channels (GPS, GLONASS, QZSS, SBAS)
Sensitivity	
GPS	Tracking: -161 dBm Hot Start: -161 dBm Warm Start: -147 dBm Cold Start: -147 dBm Reacquisition: -161 dBm
GLONASS	Tracking: -157 dBm Hot Start: -157 dBm Warm Start: -143 dBm Cold Start: -143 dBm Reacquisition: -157 dBm With Novus recommended antenna
Antenna with LNA	
Antenna power	3.5 Vdc, < 35 ma (on center conductor) (factory configurable to 5 Vdc)
Frequency	1574-1607 MHz
Nominal Gain	2 dBic
Amplifier gain	26 dB
Noise Figure	< 2.0 dB
Out of Band rejection	Fo \pm 50MHz=60 dBc, Fo \pm 60 MHz
DC current	<25 ma@3.5 Vdc

Remote interface & control		
Protocol	RS232 NMEA-0183	
Connector	DB-9	
Location	Rear panel	
Protocol	Bit plus stop	
Standard Baud Rates	Selectable 4800, 9600, 19200, 38400, 57600 or 115200 bps	
SSB Phase noise for 10Mhz		
	Standard	
10Hz	<-115dBc	
100Hz	<135dBc	
1000Hz	<-145dBc	
10000Hz	<-155dBc	

Environmental and Mechanical

Operating temperature	0 to 50C non-condensing	
Storage temperature	-40 to 70C	
Height	1.5 inches	
Width	7.0 inches	
Depth	7.5 inches	
AC input	90 to 250 VAC, 50/60hz, less than 10 watts power adapter	
Weight	≈1.5lbs	

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