

DATA SHEET NUMBER	NR3606-O
REVISION	В
DATE	2-11-22

<u>NR3606-O</u>

Eight Channel OCXO Reference

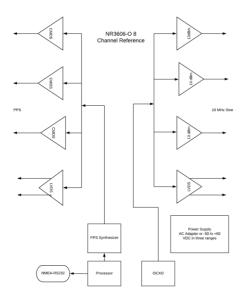
3 PPS and 3 Sine Plus LVDS



Unique in the industry, the NR3606 provides three 10 MHz sine outputs and three synthesized PPS outputs. It also provides a 10 MHz LVDS and PPS LVDS output. Ideally suited for applications requiring the stability of a OCXO frequency reference and the synchronization of a PPS but are operating in a GNSS denied environment. 1PPS synthesizer is factory programmable to other frequencies and pulse widths.

The OCXO provides low phase noise and a holdover stability of 5 ppb/day.

The PPS outputs can be factory configured to either 3.3 or 5.0 Volt CMOS levels capable of driving a 50 Ohm load.



OCXO Holdover

Aging < +-5 ppb/day

<u>LVDS</u>

Three sine and three PPS plus a 10 MHz LVDS and PPS LVDS

Low Phase Noise

Phase Noise	
Offset	dBc/Hz
1	-75
10	-115
100	-140
1K	-145
10k	-145

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Output	10 MHz,0.5 Vrms ±0.2, into 50 Ohms, LVDS 100 Ohms load	
Accuracy at shipment	<±1E-9	
Harmonics	Less than -30 dBc	
First year frequency stability	±50 ppb (long-term unlocked)	
Temperature stability	±10 ppb (long-term unlocked)	
Yearly aging	±50ppb (long-term unlocked)	
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)	
LVDS outputs	On Shore tech OSTOQ033251 mates with Digikey ED2876-ND	
PPS		
Amplitude for 1PPS	3.3 VDC CMOS (5 VDC option)	
Pulse width for 1PPS	100ms	
Rise time for 1PPS	<5 ns	
Connector	BNC	
Load Impedance	50 Ohm	
Location	rear	
Other	Port is factory programmable to other pulse frequencies.	
LVDS	100 Ohm load	
Remote interface & control		
Protocol	RS232	
Connector	DB-9	
Location	Rear panel	
Protocol	Bit plus stop	
Standard Baud Rates	Selectable 4800, 9600, 19200, 38400, 57600 or 115200 bps	
Main Power		
DC input	-60 to +60 in three ranges	
Power	<15 W (steady state < 10 W)	
Warranty	1 year plus 3 year optional extended warranty from date of shipment	

Environmental and Mechanical

Operating temperature		0 to 50°C non-condensin	g	
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Storage temperature	-40 to 70°C
Height	1.58"
Width	6.0"
Depth	6.0 " exclusive of connectors
Weight	1.5 lbs.

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