

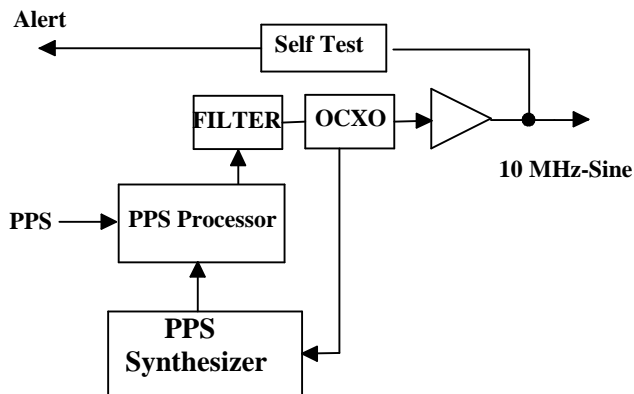
Company Datasheet #	NR6720-CAL-PPS
Revision #:	B
Date:	05-04-20

NR6720-PPS

A 10 MHz Reference Locked to an External PPS Source



KEY FEATURES



The NR6720-CAL-PPS locks a low phase noise OCXO to an external PPS source. All inputs and outputs are transient and fault protected. The Incoming PPS source is compared to a synthesized PPS to develop an error signal that is further processed to control the OCXO frequency. Lock indicator and status signal provided on the RS232 serial port. Versatile power supply can operate from -60 to +60 Vdc in three ranges. Auto-calibration stores the derived OCXO bias point in FLASH memory to be applied to the OCXO when external PPS is not present.

OCXO Locks to External PPS

Typical Phase Noise- 10 MHz Sine

Offset Frequency (Hz)	Typical (dBc / Hz)
10	-110
100	-125
1K	-136
10K	-145

Auto Cal

The unit stores the temperature/time performance of the holdover crystal multiple times per day. If lock is lost, the unit uses the last best known OCXO bias point.

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Technical Specifications

10 MHz Sine	13 ±2 dBm ,50 Ohm - SMA
Harmonics	Less than -30 dBc
First Year Frequency Stability	±50 ppb (long-term unlocked)
Temp Stability	±10 ppb (unlocked)
External PPS	3,3 Vdc CMOS logic 5 Vdc tolerant. Minimum pulse width= 1 usec
	External PPS accuracy <± 5 ppb
	Input impedance > 1 kOhm
	SMA Connector
Power Connector	2-pin Power Con- power in, Digikey 277-2416-ND mates with 277-2417-ND
Power	Available -60 to +60 Vdc in three ranges

Environmental and Mechanical

Operating Temperature	0 to 50C non-condensing (extended temperature range available)
Storage Temperature	-40 to 70C
Width	3.5 inches
Depth	5 inches (exclusive of Connectors)
Height	1.13 inches
Weight	~16 oz

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