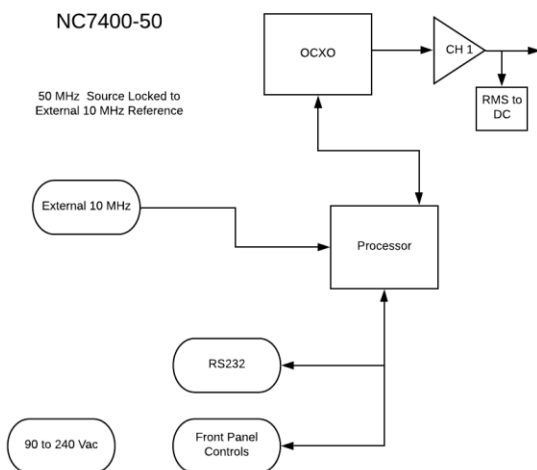


# NC7400-50MHz- Frequency Multiplier



## KEY FEATURES



The NC7400 is a low phase noise high frequency reference locked to a external 10 MHz reference or an internal GNSS receiver. The result is a very low phase noise reference that affords a considerable reduction in phase noise in a high frequency application such as satellite up-links compared to a 10 MHz reference.

The unit may also be driven by an external 10 MHz reference instead of an embedded GNSS receiver.

## High Frequency Reference

By using the NC7400 with a GPS locked or Atomic reference you can to build a 20, 30 or 50 MHz reference.

## Typical Low Phase Noise

Using the NC7400 with a low noise Rubidium source at 50 MHz- the following phase noise was measured:

Frequency	Phase Noise
1	- 65
10	-100
100	-125
1000	-145
10,000	-150

## Technical Specifications

Output Level	7 dBm	
Max output frequency	50 MHz	
First Year Freq Stability	± 50 ppb (unlocked)	
Temperature Stability	± 10ppb unlocked	
Daily Aging OCXO	± 5 ppb/day unlocked	
Yearly Aging	± 50 ppb unlocked	
<b>Remote interface &amp; control</b>		
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	

## Environmental and Mechanical

<b>Operating temperature</b>	0 to 50C non-condensing	
<b>Storage temperature</b>	-40 to 70C	
Height	1RU (~1.73)	
Width	19 inches	
Depth	12 inches	
AC input	90 to 250 Vac, 50/60hz, less than 10 watts	
Weight	≈ 6.0 lbs	

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