

NC7400-50

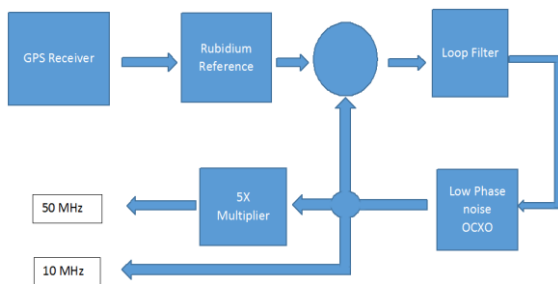
50 MHz Frequency Reference



KEY FEATURES

Rubidium Source Option

Excellent aging <2 ppb/year



Typical Phase Noise

Offset (Hz)	(dBc/Hz)
10	-115
100	-130
1K	-140
10K	-145

The signal source is from a 10 MHz reference that is an ultra-low noise OCO that can be locked to GNSS or Rubidium or an external reference. The 10 MHz reference drives a diode bridge 5 times multiplier. Both the low noise 10 MHz and 50 MHz are available. The NC7400 can be ordered at 20, 30, 40 or 50 MHz.

Extensive Built-in-Test (BIT)

The BIT comprehensively monitors critical functional elements of the system - power supplies, temperature, signal presence, oven status and channel faults. Any failure causes the alert relay to open.

Technical Specifications

10MHz sine output	0.5 Vrms, 50 Ohm – BNC	
Frequency change 0 to 50C	From <3E-10	
Long-term stability		
Month	<5 E-11 (after one month)	
Allan Deviation		
1sec	3E-11	
10 sec	1E-11	
100 sec	3E-12	
10 MHz phase noise dBc/Hz	8 dBm	
1 Hz	-100	
10 Hz	-130	
100 Hz	-145	
1 KHz	-155	
10 KHz	-155	
Harmonics	<-25 dBc	
50 MHz phase noise dBc/Hz	Amplitude 6.5 dBm	
1Hz	- 85	
10 Hz	-115	
100 Hz	-130	
1KHz	-140	
10 KHz	-140	

Environmental and Mechanical

Operating temperature	0 to 50C non-condensing	
Storage temperature	-40 to 70C	
Height	1.73" 1 RU	
Width	19"	
Depth	11.25" (exclusive of connectors)	
AC input	90 to 264 VAC, 50/60Hz (optional DC)	

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