	Company Datasheet #	NR2310D-R-O
	Revision #:	A
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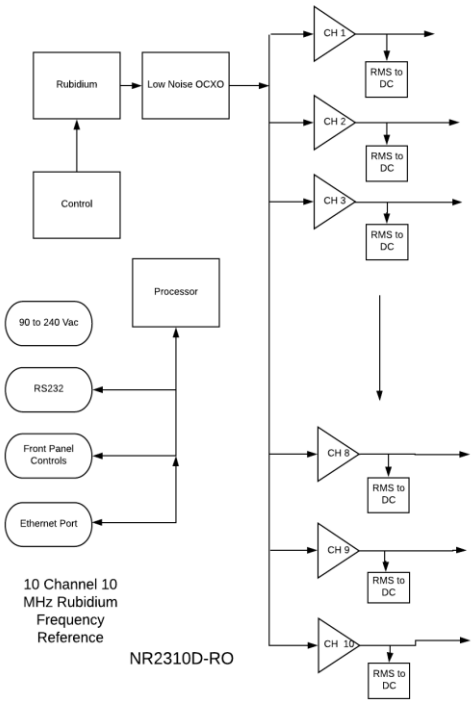
NR2310D-R-O

10 MHz 10 Channel Low Noise Rubidium



Rubidium Atomic Reference

Aging < 2ppb/year

Phase Noise

Offset Frequency (Hz)	Typical (dBc / Hz)
10	-130
100	-140
1K	-145
10k	-150

For many applications, the phase noise of a Rubidium reference is not acceptable. The NR2310D-R-O incorporates a low noise OCXO that is disciplined to the Rubidium reference. Ten channels meet the needs of most applications without requiring a distribution amplifier saving space and less opportunity to introduce noise. Continuous channel monitoring available locally or via RS232/Ethernet. Dual power source options for AC and DC power driven systems.

Technical Specifications

Output	10 MHz,0.5 Vrms ±0.1, into 50 Ohms, 15 channels, sine or square	
Accuracy at Shipment	<±2E-9	
Monthly aging	<±3E-11 after 3 months of operation	
Yearly Aging	<±3E-10 after 3 months operation	
Harmonic Distortion	< -30 dBc	
AC input	90 to 250 vac, 50/60hz, IEC 320-C14	
Long-term stability		
Day	$<2x10^{-11}$	
Month	$<5x10^{-11}$ After one month	
Year	$<2x10^{-9}$	
Short-term stability		
1sec	$3x10^{-11}$	
10 sec	$9x10^{-12}$	
100 sec	$5x10^{-12}$	
Phase Noise dBc/Hz		
1Hz	-65	
10 Hz	-130	
100Hz	-135	
1KHz	-140	
10Khz	-145	

Environmental and Mechanical

Operating temperature	0 to 50C non-condensing	
Storage temperature	-40 to 70C	
Height	1RU (~1.73)	
Width	19 inch	
Depth	13 inch	
AC input	90 to 250 VAC, 50/60hz, less than 10 watts	
Weight	≈5.5lbs	