

Company Datasheet #	NR2310-R/O
Revision #:	C
Date:	9/29/15

NR2310-R/O

10MHz Frequency Reference, OCXO, Rubidium, 10 Channel

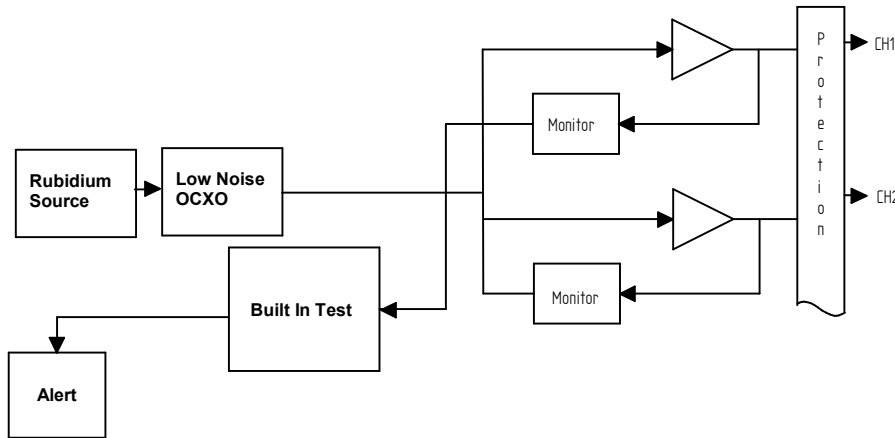


Rubidium Atomic Reference

Aging < 1ppb/year

Typical Phase Noise

Offset (Hz)	dBc/Hz)
10	-130
100	-145
1K	-145
10K	-150



Exceptional holdover stability of less than 0.3 ppb/month. Temperature stability of 0.2ppb. To enhance phase noise, a low noise OCXO is disciplined to the Rubidium source. The result is a source with the stability of Rubidium and the phase noise of a high performance OCXO. The unit has ten outputs, often eliminating the need for a distribution amplifier and reference. All channels are monitored for a fault condition and built-in test monitors critical circuits which drives panel indicators as well as an alarm relay that can be wired into an alarm panel.

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Technical Specifications

Output	10 MHz, 6±1dBm, 10 channels
Accuracy at shipment	<±1E-9
Monthly aging	<±3E-10 after 3 months of operation
Yearly aging	<±1E-9 after 3 months operation- optional ±0.5E-9
Locked Stability	<2 E-12
Harmonic distortion	< -30 dBc
AC input	90 to 250 VAC, 50/60Hz, IEC 320-C14
Alert	20VDC/VAC, 0.5 amp relay contacts - relay closed for normal condition, BNC
Short-term stability	
1 sec	3E-10
10 sec	1E-10
100 sec	3E-11

Environmental and Mechanical

Operating temperature	0 to 50C non-condensing
Storage temperature	-40 to 70C
Height	1RU (~1.73")
Width	19"
Depth	12"
Weight	≈5.5lbs
AC input	90 to 250 VAC, 50/60Hz, less than 10 watts

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