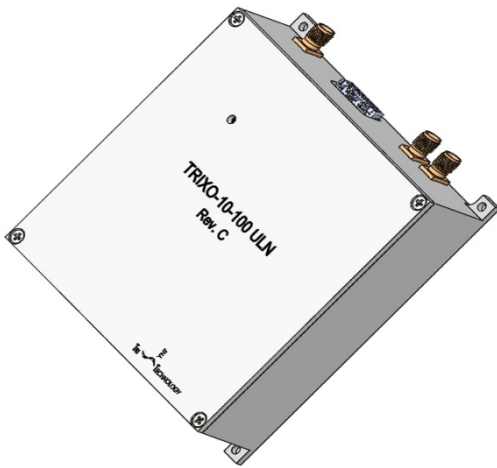


TRIXO-10 -100 ULN

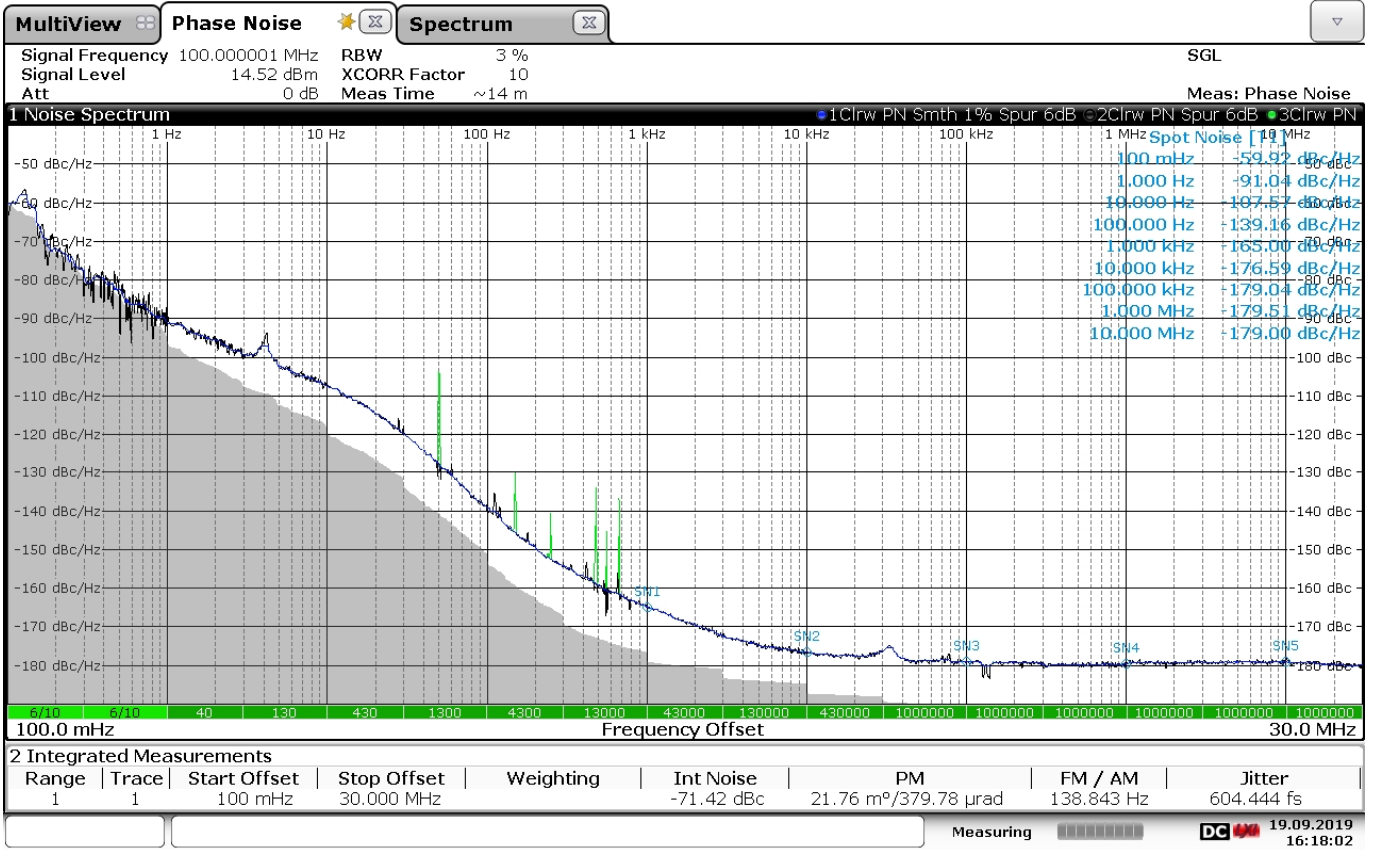


The TRIXO-10-100 ULN is an oven controlled pair of two high performance crystal oscillators: a 100 MHz oscillator locked to a 10 MHz quartz time base. While the 100 MHz oscillator provides a very low noise floor, the 10 MHz oscillator determines the optimum phase noise profile at close-in offsets and guarantees excellent frequency stability. The oscillator provides more than +13 dBm of output power and draws 800 mA in the steady state from a +12V power supply. It comes in a robust aluminum milled form factor and operates over the frequency range of 0...+50°C.

Parameter Description	Parameter Value		
Output Frequency	100 MHz		
Initial Setting Accuracy	$\pm 1 \times 10^{-9}$		
Frequency Temperature Stability after warm-up	$\pm 1 \times 10^{-11}$ (over the temperature range of 0...+50°C)		
Short-term Frequency Stability (Allan Deviation) per 1 sec	$< 2 \times 10^{-12}$		
Warm-up Time within Accuracy of $\pm 5 \times 10^{-8}$ at 25°C	<15 min.		
Aging	$\pm 1 \times 10^{-8}$ /year		
Output Power	+13 dBm (+15dBm typical)		
Output VSWR	2.00 (<1.5 typical)		
Output Impedance	50 Ohm		
Output Waveform	sinusoidal		
Harmonics	<-60 dBc		
Phase Noise	Offset Fm	Guaranteed Value	Typical Value
	0.1 Hz	-50 dBc/Hz	-60 dBc/Hz
	1 Hz	-80 dBc/Hz	-90 dBc/Hz
	10 Hz	-103 dBc/Hz	-108 dBc/Hz
	100 Hz	-135 dBc/Hz	-140 dBc/Hz
	1 kHz	-157 dBc/Hz	-165 dBc/Hz
	10 kHz	-170 dBc/Hz	-175 dBc/Hz
100 kHz	-175 dBc/Hz	-180 dBc/Hz	
Power Supply Voltage (Volts)	+12 V		
Current Consumption (mA)	1400 mA (during warm-up) 800 mA (after warm-up)		
Operating Temperature Range	0...+50°C		
Dimensions	Milled Aluminum Case 110 mm x 115 mm x 23 mm		

TYPICAL PERFORMANCE GRAPHS.

TRIXO-10-100 ULN Typical Phase Noise



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