

Ultra Low Phase Noise Oven Controlled Quartz Oscillator ELV-OCXO 100 ULN Frequency 100 MHz

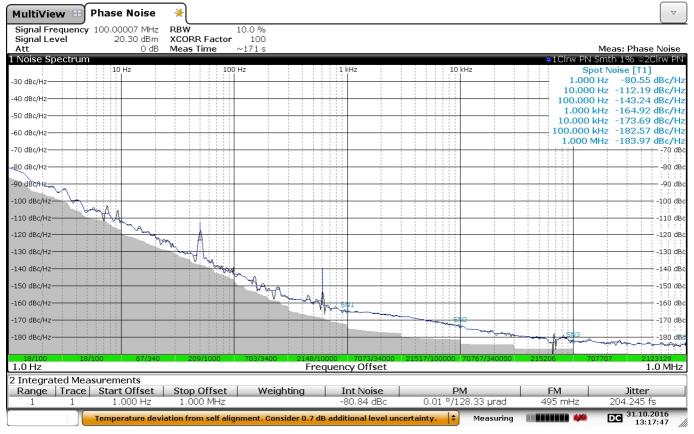


The ELV-OCXO 100 ULN is a high performance oven controlled crystal oscillator which features excellent frequency stability and ultra low single sideband phase noise. The oscillator provides more than +18 dBm of output power and draws 250 mA in the steady state from a +15V power supply. It comes in a compact aluminum milled form factor and operates over the frequency range of $0...+50^{\circ}C$

Parameter Description		Parameter Value		
Operating Frequency		100 MHz		
Warm-up time (to achieve the nominal frequency)		<15 minutes		
Frequency Stability after warm-up		±1x10 ⁻⁸		
Aging		±1x10 ⁻⁷ /year		
Frequency Pulling Range		±1x10 ⁻⁶		
Output Power		+18 dBm (+20dBm typical)		
Output VSWR		2.00 (<1.5 typical)		
Output Impedance		50 Ohm		
Output Waveform		sinusoidal		
Harmonics		<-60 dBc		
Phase Noise	Offset	Guaranteed	Typical	
	Fm	Value	Value	
	1 Hz	-70 dBc/Hz	-80 dBc/Hz	
	10 Hz	-105 dBc/Hz	-110 dBc/Hz	
	100 Hz	-135 dBc/Hz	-140 dBc/Hz	
	1 kHz	-157 dBc/Hz	-162 dBc/Hz	
	10 kHz	-170 dBc/Hz	-175 dBc/Hz	
	100 kHz	-175 dBc/Hz	-180 dBc/Hz	
Power Supply Voltage (Volts)		+15 V		
Current Consumption (mA)		340 mA (during warm-up) 250 mA (after warm-up)		
Operating Temperature Range		0+50°C		
Dimensions	Mill	Milled Aluminum Case 44 mm x 44 mm x 15 mm		

TYPICAL PERFORMANCE GRAPHS.





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