



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°C

Parameter Description	Parameter Value		
Operating Frequency	100 MHz		
Warm-up time (to achieve the nominal frequency)	<15 minutes		
Frequency Stability after warm-up	$\pm 1 \times 10^{-8}$		
Aging	$\pm 1 \times 10^{-7}$ /year		
Frequency Pulling Range	$\pm 1 \times 10^{-6}$		
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 Fm	Guaranteed Value	Typical 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	Milled Aluminum Case 44 mm x 44 mm x 15 mm		

