

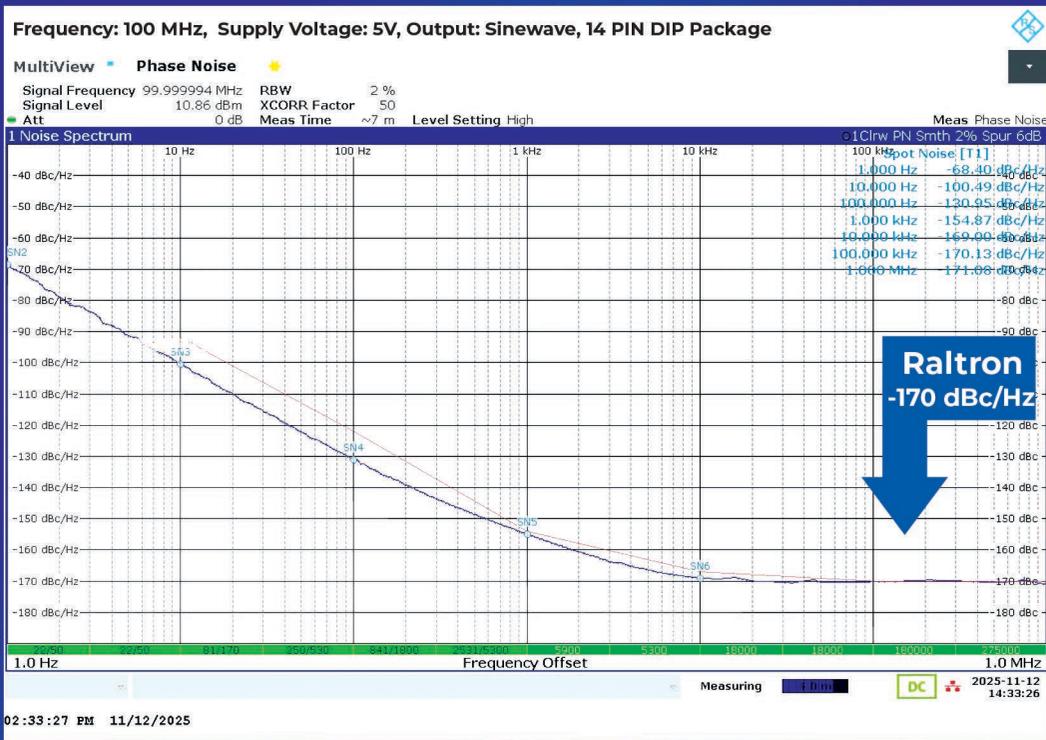


## Raltron OXL Low Power OCXO Series

Raltron's OXL Low Power OCXO series provides excellent frequency stability and low phase noise with ultra-low power consumption. The series covers a frequency range from 10MHz to 100MHz with both small size through-hole and SMD style packages available.

### APPLICATIONS

- Portable Microwave & RF Communication Systems
- Portable Test & Measurement Systems
- Radar Systems
- Satellite Communications
- Seismic and Ocean Exploration
- Medical Instrumentation



Electrical Parameter	Raltron 14 PIN DIP 10 MHz Sinewave/CMOS	Raltron 8 PIN DIP 10MHz Sinewave/CMOS	Raltron 14 PIN DIP 100 MHz Sinewave/CMOS	Raltron 8 PIN DIP 100 MHz Sinewave/CMOS
Output (Sinewave) @ 3.3Vdc @ 5.0Vdc	5dBm 7dBm	5dBm 7dBm	5dBm 7dBm	5dBm 7dBm
Output (CMOS) @ Vhigh/Vlow	2.4Vmin/ 0.4Vmax	2.4Vmin/ 0.4Vmax	2.4Vmin/ 0.4Vmax	2.4Vmin/ 0.4Vmax
Frequency Control Input Impedance	25kΩ	25kΩ	25kΩ	25kΩ
Reference Voltage @3.3/5.0Vdc	2.8 / 4.4Vdc	2.8 / 4.4Vdc	2.8 / 4.4Vdc	2.8 / 4.4Vdc
Frequency Control Range	±0.5ppm	±0.5ppm	±0.8ppm	±0.8ppm
Frequency Tuning @ 3.3Vdc @ 5.0Vdc	0~2.8Vdc 0~4.4Vdc	0~2.8Vdc 0~4.4Vdc	0~2.8Vdc 0~4.4Vdc	0~2.8Vdc 0~4.4Vdc
Power Consumption @ Steady State @+25°C @ Warm Up	0.3W 1.2W	0.3W 1.2W	0.3W 1.2W	0.3W 1.2W
Frequency Stability over Temp. (-40~+85°C)	±100ppb	±100ppb	±100ppb	±100ppb
Initial Frequency Tolerance (Daily)	±100ppb	±100ppb	±200ppb	±200ppb
Aging (per year) (10 years)	±100ppb ±300ppb	±100ppb ±300ppb	±200ppb ±500ppb	±200ppb ±500ppb
Phase Noise (typ) @10Hz	-125 dBc/Hz	-125 dBc/Hz	-95 dBc/Hz	-95 dBc/Hz
Phase Noise (typ) @100Hz	-145 dBc/Hz	-145 dBc/Hz	-125 dBc/Hz	-125 dBc/Hz
Phase Noise (typ) @1kHz	-155 dBc/Hz	-155 dBc/Hz	-155 dBc/Hz	-155 dBc/Hz
Phase Noise (typ) @10kHz	-160 dBc/Hz	-160 dBc/Hz	-167 dBc/Hz	-165 dBc/Hz
Phase Noise (typ) @100kHz	-165 dBc/Hz	-165 dBc/Hz	-170 dBc/Hz	-165 dBc/Hz
Phase Noise (typ) @1MHz	-165 dBc/Hz	-165 dBc/Hz	-170 dBc/Hz	-165 dBc/Hz
Supply Voltage (5%)	3.3 or 5.0Vdc	3.3 or 5.0Vdc	3.3 or 5.0Vdc	3.3 or 5.0Vdc
Current Consumption @Start Up @3.3/5.0VDC	360 / 240mA	360 / 240mA	360 / 240mA	360 / 240mA
Warm-up Time (max) @ ±100ppb of final frequency (1hour)	60 sec.	60 sec.	60 sec.	60sec.
G-Sensitivity (Each Axis)	1ppb/G	1ppb/G	1ppb/G	1ppb/G
Dimensions	20 x 15.3mm	16 x 15.3mm	20 x 15.3mm	16 x 15.3mm