



# Raltron High Performance 10MHz OXCO

Raltron's OXH30/OXH80 Series OXCOs provide high frequency stability, low phase noise, and controlled thermal performance. Designed to maintain precise output over temperature and time, these OXCOs offer a stable reference for synthesizers, timing modules, microwave systems, and test instrumentation.

## APPLICATIONS



New Space



Microwave & RF Communication Systems



Test & Measurement Systems



Frequency Converters



Base Stations



### Electrical Parameter

Frequency  
Type Output  
Output Level (typ)  
Harmonics  
Spurs  
Reference Voltage Option  
Frequency Control Range  
Frequency Tuning Voltage Range  
Frequency Control Input Impedance  
Frequency Stability over Temp. (-40~+85°C)  
Initial Frequency Tolerance  
Aging (1st year)  
Phase Noise (typ) @1Hz  
Phase Noise (typ) @10Hz  
Phase Noise (typ) @100Hz  
Phase Noise (typ) @1kHz  
Phase Noise (typ) @10kHz  
Phase Noise (typ) @100kHz  
Supply Voltage (5%)  
Current Consumption Steady State @+25°C @ Warm Up  
Dimensions

	Raltron OXH30 Series	Raltron OXH80 Series	Raltron OXH80 Series
Frequency	10 MHz	10 MHz	10 MHz
Type Output	Sinewave	Sinewave	Sinewave
Output Level (typ)	10dBm	10dBm	10dBm
Harmonics	-30dBc	-30dBc	-30dBc
Spurs	-80dBc	-80dBc	-80dBc
Reference Voltage Option	5VDC	5VDC	4.4VDC
Frequency Control Range	$\pm 0.3 \sim \pm 1.0 \text{ppm}$	$\pm 0.3 \sim \pm 1.0 \text{ppm}$	$\pm 0.3 \sim \pm 1.0 \text{ppm}$
Frequency Tuning Voltage Range	0~10 VDC	0~10 VDC	0~4.4 VDC
Frequency Control Input Impedance	40k $\Omega$	40k $\Omega$	40k $\Omega$
Frequency Stability over Temp. (-40~+85°C)	$\pm 10 \text{ppb}$	$\pm 10 \text{ppb}$	$\pm 10 \text{ppb}$
Initial Frequency Tolerance	$\pm 100 \text{ppb}$	$\pm 100 \text{ppb}$	$\pm 100 \text{ppb}$
Aging (1st year)	$\pm 50 \text{ppb}$	$\pm 50 \text{ppb}$	$\pm 50 \text{ppb}$
Phase Noise (typ) @1Hz	-110 dBc/Hz	-110 dBc/Hz	-105 dBc/Hz
Phase Noise (typ) @10Hz	-140 dBc/Hz	-140 dBc/Hz	-135 dBc/Hz
Phase Noise (typ) @100Hz	-155 dBc/Hz	-155 dBc/Hz	-155 dBc/Hz
Phase Noise (typ) @1kHz	-167 dBc/Hz	-167 dBc/Hz	-165 dBc/Hz
Phase Noise (typ) @10kHz	-170 dBc/Hz	-170 dBc/Hz	-170 dBc/Hz
Phase Noise (typ) @100kHz	-170 dBc/Hz	-170 dBc/Hz	-170 dBc/Hz
Supply Voltage (5%)	12 VDC	12 VDC	5 VDC
Current Consumption Steady State @+25°C @ Warm Up	120mA 300mA	120mA 300mA	300mA 700mA
Dimensions	36 x 27mm	25 x 25mm	25 x 25mm