

OCO-M14HLN NEW

Low Phase Noise OCXO HCMOS



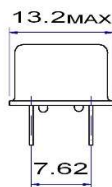
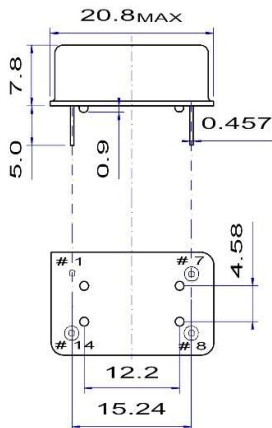
- Features**
- Ultra Low Phase Noise (-170 dBc/Hz)
 - Wide Operating Temperature Range: $\leq \pm 50 \times 10^{-8}$ -40 to +85 °C

Parameter	Specification						
	OCO-M14HLN3			OCO-M14HLN5			
Frequency Range	60 MHz to 120 MHz						
Standard Frequencies	80.000, 100.000 MHz						
Operating Temperature Range	Code	EH	GH	JK	NK	NN	Z
	°C	0 / +60	-10 / +60	-20 / +70	-40 / +70	-40 / +85	Custom
Frequency Stability		u50		u10		50n	
vs Operating Temperature Range	Code	$\leq \pm 50 \times 10^{-8}$		$\leq \pm 10 \times 10^{-8}$		$\leq \pm 5 \times 10^{-8}$	
	Note 2						
vs. Supply Voltage change (Vdc \pm 4 %)		$\leq \pm 2 \times 10^{-8}$					
vs. Load change (\pm 10 %)		$\leq \pm 3 \times 10^{-8}$					
vs. Aging after 30 days of operation 1 st year		$\leq \pm 3 \times 10^{-7}$					
Short term stability (Allan variance @1s)		$< 1 \times 10^{-10}$ (Typ. : 5×10^{-11})					
Output waveform		HCMOS					
Output level		$V_{OL} < 0.4 V$			$V_{OH} > 2.4 V$		
Output load		15 pF					
Rise / Fall time		$< 7 ns$					
Supply Voltage [Vdc]		+3.3 V \pm 4 %			+5.0 V \pm 4 %		
Warm-up current @ +25 °C still air		$< 500 mA$			$< 500 mA$		
Steady-state current @ +25 °C still air		$< 250 mA$			$< 180 mA$		
Warm-up time		$< 2 min$			$< \pm 0.2 \times 10^{-6}$ @ +25 °C		
Electronic Frequency Control [EFC] range		Vdc 3.3V $\leq \pm 2.0 \times 10^{-6}$			Vdc 5.0V $\leq \pm 2.5 \times 10^{-6}$		
Voltage Control (Vc)		0 ~ +3.3 V			0.5 ~ +5.0 V		
Phase Noise [typical value] dBc/Hz		Vdc 3.3 V			Vdc 5.0 V		
	Option	-	LN	-	LN	ULN	
	10 Hz	-80	-85	-85	-90	-92	
	100 Hz	-115	-120	-120	-125	-127	
	1 kHz	-140	-145	-145	-150	-152	
	10 kHz	-150	-155	-155	-162	-165	
	100 kHz	-160	-162	-165	-165	-170	
Storage temperature range		-55 ~ +85 °C					

Note 1: unless otherwise specified conditions are @ 25°C still air

Note 2: all combination not possible (consult factory)

Dimensions



Pin function

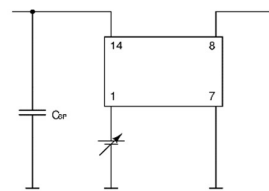
- # 1 Vc
- # 7 GND
- # 8 RF output
- # 14 Vdc

Ordering Guide:

OCO-M14HLN5-JKu10-ULN-100MHz

Vdc OTR Phase Noise

External voltage



External potentiometer

