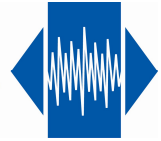


OCO-M14SLN

Low Phase Noise OCXO Sine wave



QuartzCom
the communications company



Features

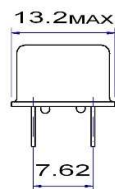
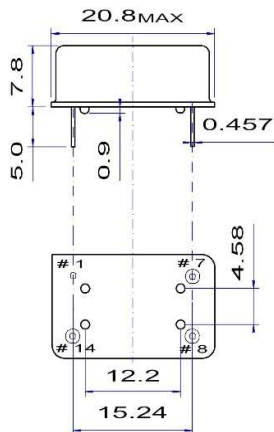
- Ultra Low Phase Noise (-170dBc/Hz)
- Wide Operating Temperature Range: $\leq \pm 50 \times 10^{-8}$ -40 to +85 °C

Parameter	Specification						
	OCO-M14LSN3			OCO-M14SLN5			
Frequency Range	60 MHz to 120 MHz						
Standard Frequencies	80.000, 100.000 MHz						
<u>O</u> perating <u>T</u> emperature <u>R</u> ange	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 <u>O</u> perating <u>T</u> emperature <u>R</u> ange	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		Sine wave					
Output level		> 500 mV RMS					
Output load		50 Ω $\pm 5\%$					
Harmonics		< -20 dBc					
Sub-harmonics		< -70 dBc					
Supply Voltage [Vdc]		+3.3 V $\pm 5\%$			+5.0 V $\pm 5\%$		
Warm-up current @ +25 °C still air		Consult factory			< 500 mA		
Steady-state current @ +25 °C still air					< 180 mA		
Warm-up time		< 2 min		$< \pm 2 \times 10^{-7}$ @ +25 °C			
Electronic Frequency Control [EFC] range						$\leq \pm 2.5 \times 10^{-6}$	
Voltage Control (Vc)						0 ~ +5.0 V	
Phase Noise [typical value] dBc/Hz						Vdc 5.0 V	
	Option			-	LN	ULN	
	10 Hz			-85	-90	-95	
	100 Hz			-120	-125	-127	
	1 kHz			-145	-150	-152	
	10 kHz			-155	-162	-165	
	100 kHz			-160	-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-M14SLN5-JKu10-ULN-100MHz

Vdc OTR Phase Noise

External voltage

External potentiometer

