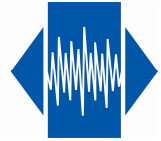


OCO-M14S

OCXO Sine wave



QuartzCom
the communications company



Features

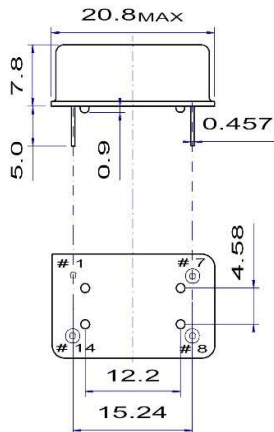
- Low power consumption (0.4W) under request
- Wide Operating Temperature Range: $\leq \pm 10 \times 10^{-8}$ -55 to +85 °C

Parameter	Specification							
	OCO-M14S3			OCO-M14S5				
Frequency Range	10 MHz to 120 MHz							
Standard Frequencies	10.000, 20.000, 32.768, 40.000, 100.000 MHz							
Operating Temperature Range	Code	°C	EH	GH	JK	NK	NN	Z
			0 / +60	-10 / +60	-20 / +70	-40 / +70	-40 / +85	Custom
Frequency Stability			u10		50n		30n	
vs Operating Temperature Range		Note 2	$\leq \pm 10 \times 10^{-8}$		$\leq \pm 50 \times 10^{-9}$		$\leq \pm 30 \times 10^{-9}$	
vs. Supply Voltage change (Vdc $\pm 5\%$)			$\leq \pm 10 \times 10^{-9}$					
vs. Load change ($\pm 5\%$)			$\leq \pm 20 \times 10^{-9}$					
vs. Aging after 30 days of operation 1 st year			$\leq \pm 2 \times 10^{-7}$					
Short term stability (Allan variance @1s)			$< 1 \times 10^{-10}$ (Typ. : 5×10^{-11})					
Output waveform			Sine wave					
Output level			> 300 mV RMS					
Output load			$50\Omega \pm 5\%$					
Harmonics			< -25 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			< 700 mA			< 500 mA		
Steady-state current @ +25 °C still air			< 300 mA			< 200 mA		
Warm-up time			< 2 min			$< \pm 0.1 \times 10^{-6}$ @ +25 °C		
Electronic Frequency Control [EFC] range			$\leq \pm 2.5 \times 10^{-6}$					
Voltage Control (Vc)			0.15 ~ +3.15 V			0.25 ~ +4.75 V		
Phase Noise [typical value] dBc/Hz			10 MHz		100 MHz			
			10 Hz	-110	-90			
			100 Hz	-140	-120			
			1 kHz	-155	-140			
			10 kHz	-160	-150			
			100 kHz	-160	-155			
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-M14S5-JK50n-40MHz

Vdc OTR

External voltage

External potentiometer

