

OCO-M14S

OCXO Sine wave



QuartzCom
the communications company



Features

- Low power consumption (0.4W) under request
- Wide Operating Temperature Range: [QNu10] $\leq \pm 1 \times 10^{-7}$ -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									
vs Operating Temperature Range	Code	Note 2	u10		50n		30n		
			$\leq \pm 10 \times 10^{-8}$		$\leq \pm 50 \times 10^{-9}$		$\leq \pm 30 \times 10^{-9}$		
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 $\pm 4\%$			+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			$\leq \pm 1.0 \times 10^{-6}$						
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			$-55 \sim +85$ °C						

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

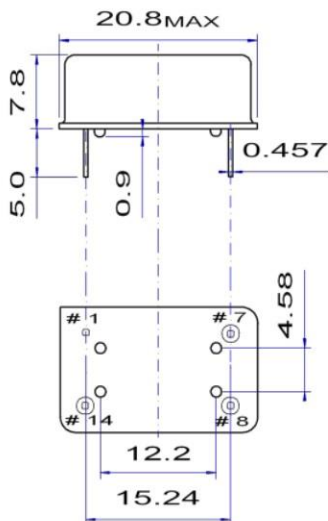
Note 2: all combination not possible (consult factory)

Dimensions

Ordering Guide:

OCO-M14S5-JK50n-40MHz

Vdc OTR



Pin function

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

External voltage

External potentiometer

