OCO-M14S

OCXO Sine wave

QuartzCom
the communications company

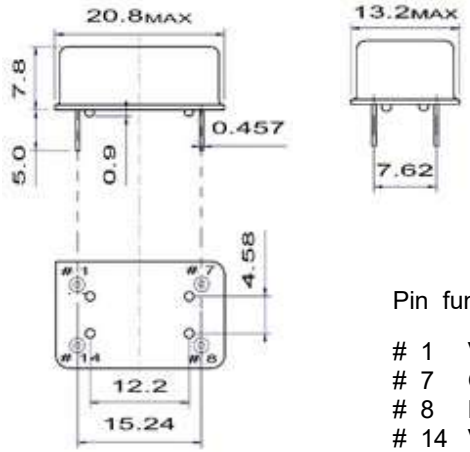
Features

- Low power consumption (0.4W) under request
- Wide Operating Temperature Range: ≤ ±10 x 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	EH	GH	JK	NK	NN	Z
	°C	0 / +60	-10 / +60	-20 / +70	-40 / + 70	-40 / +85	Custom
Frequency Stability							
vs Operating Temperature Range	Code	u10		50n		30n	
	Note 2	≤ ± 10 x 10^{-8}		≤ ±50 x 10^{-9}		≤ ±30 x 10^{-9}	
vs. Supply Voltage change (Vdc ± 5 %)		≤ ±10 x 10^{-9}					
vs. Load change (±5 %)		≤ ±20 x 10^{-9}					
vs. Aging after 30 days of operation 1st year		≤ ±2 x 10^{-7}					
Short term stability (Allan variance @1s)		< 1 x 10^{-10} (Typ. : 5 x 10^{-11})					
Output waveform		Sine wave					
Output level		> 300 mV RMS					
Output load		50Ω ±5 %					
Harmonics		< - 25 dBc					
Sub-harmonics		< - 70 dBc					
Supply Voltage [Vdc]		+3.3 V ±5 %			+5.0 V ±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		< ± 0.1 x 10^{-6} @ +25 °C			
Electronic Frequency Control [EFC] range		≤ ±2.5 x 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

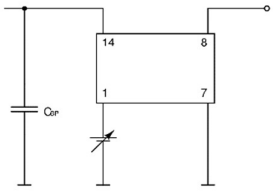
1 Vc
7 GND
8 RF output
14 Vdc

Ordering Guide:

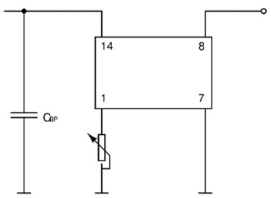
OCO-M14S5-JK50n-40MHz

Vdc OTR

External voltage



External potentiometer



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