

OCO-M36AGS

Low G-sensitivity OCXO
Sine wave



QuartzCom
the communications company



Features

- Ultra Low G-sensitivity option
- Low Phase Noise

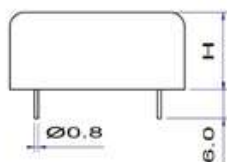
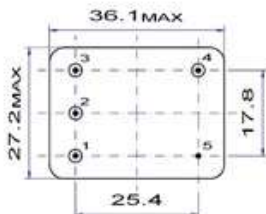
Parameter	Specification					
	OCO-M36AGS5			OCO-M36AGS12		
Frequency Range	5.000 ~ 20.000 MHz					
Standard Frequencies	5.000 10.000 12.800 16.384 20.000MHz					
Operating Temperature Range	Code	EH	GH	JK	NK	NN Z
	°C	0 / +60	-10 / +60	-20 / +70	-40 / +70	-40 / +85 Custom
Frequency Stability	Code	5n0		2n0		1n0
vs. Operating Temperature Range	Note 2	$\leq \pm 5 \times 10^{-9}$		$\leq \pm 2 \times 10^{-9}$		$\leq \pm 1 \times 10^{-9}$
vs. Supply Voltage change [Vdc] $\pm 5\%$		$\leq \pm 5 \times 10^{-10}$				
vs. Load change $\pm 5\%$		$\leq \pm 5 \times 10^{-10}$				
vs. Aging after 30 days of operation		$\leq \pm 3 \times 10^{-8}$ 1 st year				
G-sensitivity	Code	G1		G2		G3
[In the range 0 ~ 500Hz Worst axis]		$\leq 1.5 \times 10^{-9}/g$		$\leq 1.0 \times 10^{-9}/g$		$\leq 0.5 \times 10^{-9}/g$
Output waveform		Sine wave				
Output level		> 300 mV RMS				
Output load		50Ω $\pm 5\%$				
Harmonics		< -30 dBc				
Sub-harmonics		< -70 dBc				
Supply Voltage [Vdc]		+5.0 V $\pm 5\%$			+12.0 V $\pm 5\%$	
Steady-state current consumption @ +25 °C		< 400 mA			< 150 mA	
Warm-up current consumption @ +25 °C		< 1000 mA			< 400 mA	
Warm-up time @ +25 °C		< 300s			< $\pm 2 \times 10^{-8}$	
Electronic Frequency Control [EFC] range		> $\pm 4 \times 10^{-7}$			positive slope	
Voltage Control [Vc]		0 ~ +4.5 V			0 ~ +5.0 V	
Reference voltage output [Vref]		+4.5 V			+5.0 V	
Phase Noise @ 10MHz	dBc/Hz				LN [12V]	
		10 Hz	< -95		< -100	
		100 Hz	< -125		< -130	
		1 kHz	< -145		< -153	
		10 kHz	< -150		< -158	
		100 kHz	< -155		< -160	
Storage temperature range		-55 ~ +85 °C				
Vibration		acceleration: 10 g; 10 Hz up to 200 Hz and down to 10 Hz; all 3 axes				
Shock		75 g, half-sine, 3 ms				

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

Note 2: all combination not possible (consult factory)

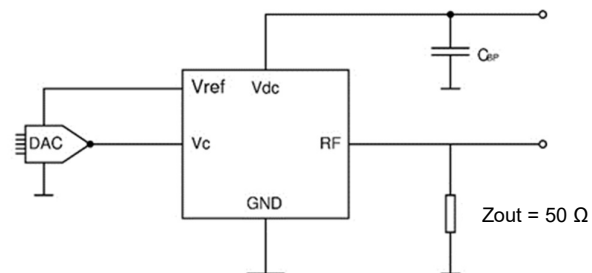
Pin function

- 1 # Vc
- 2 # Vref
- 3 # Vdc
- 4 # RF output
- 5 # GND



H = 13.0 mm

Connection circuit



Ordering Guide:

OCO-M36AGS12-JK2n0-LN-G2 10MHz

Vdc OTR Phase G-sens.
Noise