OCO-M36AGS

Low G-sensitivity OCXO
Sine wave

QuartzCom
the communications company

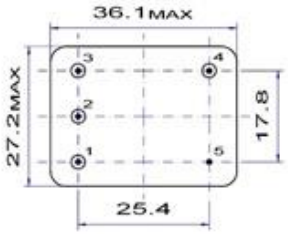
Features

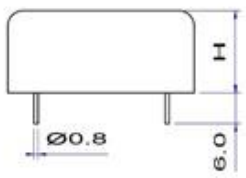
- Ultra Low G-sensitivity option
- Low Phase Noise

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 **T**emperature **R**ange	**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 **O**perating **T**emperature **R**ange	Note 2	≤ ±5 x 10^{-9}		≤ ±2 x 10^{-9}		≤ ±1 x 10^{-9}	
vs. Supply Voltage change [Vdc] ±5 %		≤ ± 5 x 10^{-10}					
vs. Load change ±5 %		≤ ± 5 x 10^{-10}					
vs. Aging after 30 days of operation		≤ ± 3 x 10^{-8} 1st year					
G-sensitivity	**Code**	**G1**		**G2**		**G3**	
[In the range 0 ~ 500Hz Worst axis]		≤ 1.5 x 10^{-9} /g		≤ 1.0 x 10^{-9} /g		≤ 0.5 x 10^{-9} /g	
Output waveform		Sine wave					
Output level		> 300 mV RMS					
Output load		50Ω ±5 %					
Harmonics		< - 30 dBc					
Sub-harmonics		< - 70 dBc					
Supply Voltage [Vdc]		**+5.0 V ±5 %**			**+12.0 V ±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		< ±2 x 10^{-8}			
Electronic Frequency Control [EFC] range		> ±4 x 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

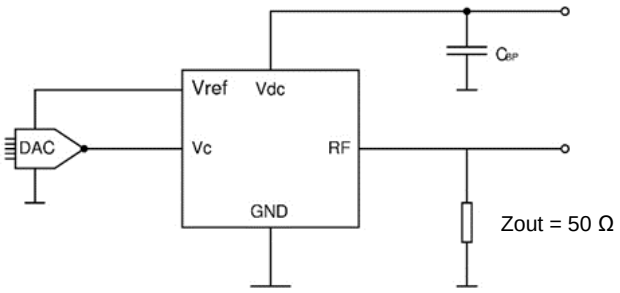
H = 13.0 mm

Ordering Guide:

OCO-M36AGS12-JK2n0-LN-G2 10MHz

Vdc OTR Phase Noise G-sens.

Connection circuit



QuartzCom AG
Bruehlstrasse 15
CH 2540 Grenchen
Switzerland

Fax +41 32 644 05
Tel +41 32 644 00
E-mail sales@quartzcom.com
Web www.quartzcom.com