OCO-M25BGS

Low G-sensitivity OCXO
Sine wave

QuartzCom
the communications company

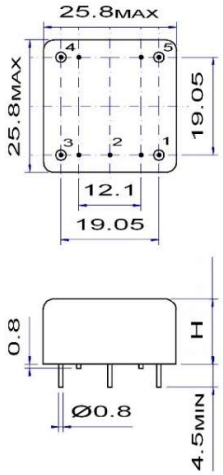
Features

- Ultra Low G-sensitivity option
- Low Phase Noise

Parameter	Specification					
	OCO-M25BGS12					
Frequency Range	80.000 ~ 125 MHz					
Standard Frequencies	100.000MHz 120.000MHz					
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**	**50n**		**20n**		**10n**	
vs **O**perating **T**emperature **R**ange	≤ ±50 x 10^{-9}		≤ ±20 x 10^{-9}		≤ ±10 x 10^{-9}	
vs. Supply Voltage change [Vdc] ±5 %	≤ ± 1 x 10^{-8}					
vs. Load change ±5 %	≤ ± 5 x 10^{-9}					
vs. Aging after 30 days of operation	≤ ± 2 x 10^{-7} 1st year					
G-sensitivity **Code**	**G1**		**G2**		**G3**	
Worst axis	≤ 8 x 10^{-10} /g		≤ 5 x 10^{-10} /g		≤ 3 x 10^{-10} /g	
Output waveform	Sine wave					
Output level	> +7 dBm					
Output load	50Ω ±5 %					
Harmonics	< - 30 dBc					
Sub-harmonics	< - 90 dBc					
Supply Voltage [Vdc]	**+12.0 V ±5 %**					
Steady-state current consumption @ +25 °C	< 170 mA					
Warm-up current consumption @ +25 °C	< 370 mA					
Warm-up time @ +25 °C	< 300s < ±1 x 10^{-7}					
Electronic Frequency Control [EFC] range	> ±1 x 10^{-6} positive slope					
Voltage Control [Vc]	0 ~ +10.0 V					
Reference voltage output [Vref]	+10.0 V					
Phase Noise @ 100MHz **dBc/Hz**		**Typical**		**Maximum**		
	10 Hz	-105		-100		
	100 Hz	-135		-130		
	1 kHz	-165		-160		
	10 kHz	-175		-170		
	100 kHz	-177		-175		
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	100 g, half-sine, 6 ms					

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

Note 2: all combination not possible (consult factory)



Pin function

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

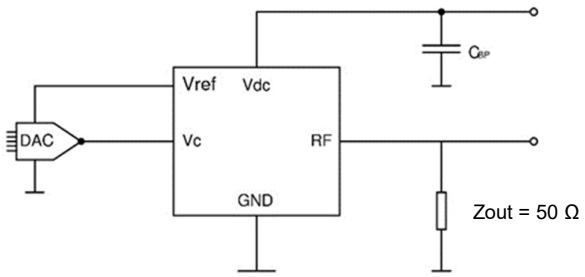
H = 13.0 mm

Ordering Guide:

OCO-M25BS5-JKu10-LN-100MHz

Vdc OTR Phase Noise

Connection circuit



QuartzCom AG
Bruehlstrasse 1
CH 2540 Grenchen
Switzerland

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