

# OCO-M25BGS

Low G-sensitivity OCXO  
Sine wave



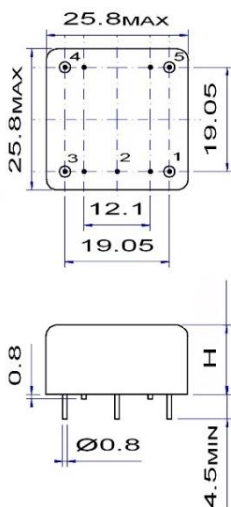
## Features

- Ultra Low G-sensitivity option
- Low Phase Noise

Parameter	Specification					
	OCO-M25BGS12					
Frequency Range	80.000 ~ 125 MHz					
Standard Frequencies	100.000MHz 120.000MHz					
<u>Operating Temperature Range</u> Code	<b>EH</b>	<b>GH</b>	<b>JK</b>	<b>NK</b>	<b>NN</b>	<b>Z</b>
	0 / +60	-10 / +60	-20 / +70	-40 / +70	-40 / +85	Custom
<b>Frequency Stability</b> Code	<b>50n</b>		<b>20n</b>		<b>10n</b>	
vs <u>Operating Temperature Range</u>	$\leq \pm 50 \times 10^{-9}$		$\leq \pm 20 \times 10^{-9}$		$\leq \pm 10 \times 10^{-9}$	
vs. Supply Voltage change [ Vdc ] $\pm 5\%$	$\leq \pm 1 \times 10^{-8}$					
vs. Load change $\pm 5\%$	$\leq \pm 5 \times 10^{-9}$					
vs. Aging after 30 days of operation	$\leq \pm 2 \times 10^{-7}$ 1 <sup>st</sup> year					
<b>G-sensitivity</b> Code	<b>G1</b>		<b>G2</b>		<b>G3</b>	
Worst axis	$\leq 8 \times 10^{-10}/g$		$\leq 5 \times 10^{-10}/g$		$\leq 3 \times 10^{-10}/g$	
Output waveform	Sine wave					
Output level	> +7 dBm					
Output load	50 $\Omega$ $\pm 5\%$					
Harmonics	< -30 dBc					
Sub-harmonics	< -90 dBc					
<b>Supply Voltage [ Vdc ]</b>	<b>+12.0 V <math>\pm 5\%</math></b>					
Steady-state current consumption @ +25 °C	< 170 mA					
Warm-up current consumption @ +25 °C	< 370 mA					
Warm-up time @ +25 °C	< 300s < $\pm 1 \times 10^{-7}$					
<b>Electronic Frequency Control [ EFC ] range</b>	> $\pm 1 \times 10^{-6}$ positive slope					
Voltage Control [ Vc ]	0 ~ +10.0 V					
Reference voltage output [ Vref ]	+10.0 V					
<b>Phase Noise @ 100MHz</b> dBc/Hz		<b>Typical</b>			<b>Maximum</b>	
	<b>10 Hz</b>	-105			-100	
	<b>100 Hz</b>	-135			-130	
	<b>1 kHz</b>	-165			-160	
	<b>10 kHz</b>	-175			-170	
	<b>100 kHz</b>	-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

