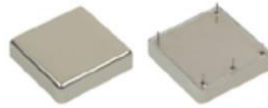


OCO-M50AGS

OCXO Sine Wave



QuartzCom
the communications company



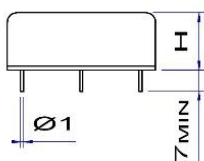
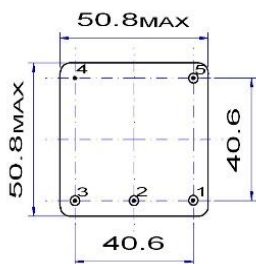
Features

- Phase Noise Option :
- Short term stability option: $\leq 1.5 \times 10^{-13}$ @ 1s

Parameter	Specification					
	OCO-M50AGS12					
Frequency Range	10.000 MHz					
<u>Operating Temperature Range</u> Code	EH	GH	JK	NK	NM	Z
°C	0 / +60	-10 / +60	-20 / +70	-40 / +70	-40 / +80	Custom
Frequency Stability Code	5n0		3n0		1n0	
vs <u>Operating Temperature Range</u> *Note 2	$\leq \pm 5 \times 10^{-9}$		$\leq \pm 3 \times 10^{-9}$		$\leq \pm 1 \times 10^{-9}$	
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 *Note 2	$\leq \pm 2 \times 10^{-8}$					1 st year
Short term Stability @ 1s [Allan Variance] Code	p50		p30		p15	
*Note 2	$\leq 5 \times 10^{-13}$		$\leq 3 \times 10^{-13}$		$\leq 1.5 \times 10^{-13}$	
Output waveform	Sine wave					
Output Level	> 400 mV RMS					
Output Load	50Ω $\pm 5\%$					
Harmonics	< -30 dBc					
Supply Voltage [Vdc]	+12.0 V $\pm 5\%$					
Steady-state current consumption @ +25 °C	< 250 mA					
Warm-up current consumption @ +25 °C	< 600 mA					
Warm-up time @ +25 °C	< 300s		< $\pm 2 \times 10^{-8}$			
Electronic Frequency Control [EFC] range	> $\pm 3 \times 10^{-7}$		positive slope			
Voltage Control [Vc]	0 ~ +5.0 V					
Reference voltage output [Vref]	+5.0 V					
Phase Noise @ 10MHz [dBc/Hz]	Option			LN	ULN	
	0.1 Hz	≤ -80		≤ -85	≤ -89	
	1 Hz	≤ -113		≤ -116	≤ -119	
	10 Hz	≤ -143		≤ -144	≤ -145	
	100 Hz	≤ -154		≤ -157	≤ -157	
	1 kHz	≤ -160		≤ -160	≤ -160	
	10 kHz	≤ -163		≤ -165	≤ -167	
Storage temperature range	-55 ~ +85 °C					
Environmental test						
Vibration	acceleration: 5 g; 10 Hz up to 500 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 # RF out
- 4 # GND
- 5 # Vdc

H = < 16 mm

Ordering Guide:

OCO-M50AGS12-JK2n0-p30-ULN-10MHz

Vdc OTR AV Phase Noise

Connection circuit

