

OCO-M58VS12

Low Phase Noise under vibration



QuartzCom
the communications company



Features

- Low G-sensitivity : < 0.1ppb/g
- Frequency up to 125 MHz

Parameter	Specification					
	OCO-M58VS12					
Frequency Range	60 MHz to 125 MHz					
Standard Frequencies	100.000MHz & 120.000 MHz					
Operating Temperature Range	Code	°C	EH	GH	JK	Z
			0 / +60	-10 / +60	-20 / +70	
Frequency Stability						
vs Operating Temperature Range	Code	Note 2	u50		u30	
			$\leq \pm 50 \times 10^{-8}$		$\leq \pm 30 \times 10^{-8}$	
vs. Supply Voltage change (Vdc $\pm 5\%$)			$\leq \pm 2 \times 10^{-8}$			
vs. Load change ($\pm 10\%$)			$\leq \pm 2 \times 10^{-8}$			
vs. Aging after 30 days of operation /day			$\leq \pm 2 \times 10^{-9}$			
vs. Aging after 30 days of operation 1 st year			$\leq \pm 2 \times 10^{-7}$			
Output waveform	Sine wave					
Output level	> 10 dBm					
Output load	50 Ω $\pm 5\%$					
Harmonics	< -30 dBc					
Sub-harmonics	< -90 dBc					
Supply Voltage [Vdc]	+12.0 V $\pm 5\%$					
Warm-current @ +25 °C still air	< 800 mA					
Steady-state current @ +25 °C still air	< 400 mA					
Warm-up time @ +25 °C still air	< 10 min $\leq \pm 0.1 \times 10^{-6}$					
Electronic Frequency Control [EFC] range	> $\pm 1 \times 10^{-6}$ positive slope					
Voltage Control [Vc]	0 ~ +10.0 V					
Phase Noise @ 100MHz [dBc/Hz]	Frequency	Static Condition	Under Random Vibrations 0.1g²/Hz 20 ~2000 Hz			
	10 Hz	< -100	Consult factory			
	100 Hz	< -130				
	1 kHz	< -155				
	10 kHz	< -160				
	100 kHz	< -165				
Storage temperature range	-55 ~ +85 °C					

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

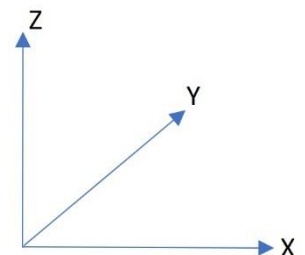
Note 2: all combination not possible (consult factory)

Ordering Guide:

OCO-M58VS12-JKu30-100MHz

Vdc OTR

G-sensitivity



OCO-M58VS12

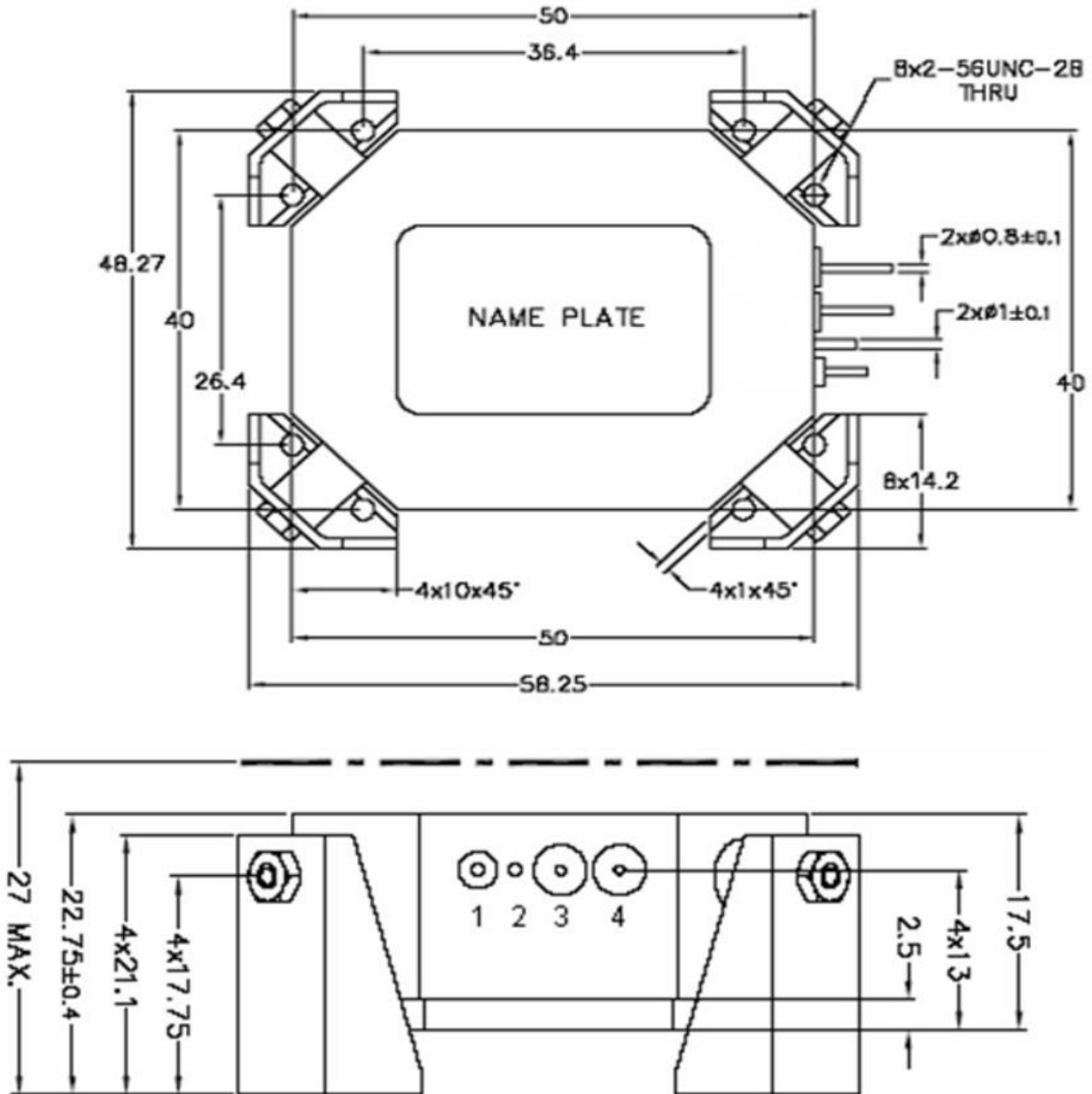
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Enclosure size



Pin functions

- # 1 RF OUT
- # 2 GND
- # 3 Vc [Voltage Control]
- # 4 Vdc [Supply Voltage]