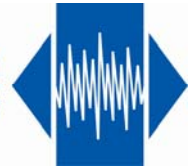


OCO-M36AGS

Low G-sensitivity OCXO Sine wave

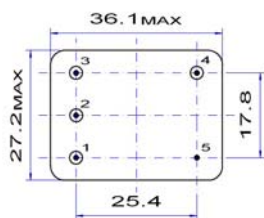


Features

- Low G-sensitivity stability $1.0 \times 10^{-9} /g$
- High frequency stability vs. temperature (up to $\pm 7.5 \times 10^{-9}$)
- Low phase noise optional

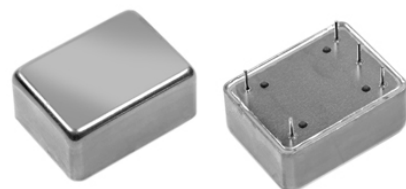
Parameter	Specification	
	OCO-M36AGS5	OCO-M36AGS12
Frequency range	5.0000 ~ 20.0000 MHz	
Standard frequencies	5.00, 10.00, 12.80, 13.00, 16.384 & 20.00 MHz	
Frequency stability vs. operating temperature range	$\leq \pm 2.0 \times 10^{-9}$	over -40 ~ +85 °C
	$\leq \pm 1.0 \times 10^{-9}$	over -20 ~ +70 °C
	$\leq \pm 7.5 \times 10^{-10}$	over -10 ~ +60 °C
vs. supply voltage change	$\leq \pm 5 \times 10^{-10}$	$\pm 5 \%$
vs. load change	$\leq \pm 5 \times 10^{-10}$	$\pm 5 \%$
vs. aging after 30 days of operation	$\leq \pm 3 \times 10^{-8}$	1 st year
Short term stability	$< 5 \times 10^{-12}$	Allan deviation per 1 s
G-sensitivity (in the range 0 ~ 500 Hz)	$< 1.5 \times 10^{-9} /g$	optional $< 1.0 \times 10^{-9} /g$
Output waveform	sine wave	> 300 mV (rms)
Output load	50 Ω	$\pm 5 \%$
Supply voltage	+5.0 V $\pm 5 \%$	+12 V $\pm 5 \%$
Steady-state current consumption @ +25 °C	< 400 mA	< 150 mA
Peak current consumption during warm-up time	< 950 mA	< 400 mA
Warm-up time	< 3 min	$< \pm 1 \times 10^{-7}$ @ +25 °C
Frequency pulling range	$> \pm 4 \times 10^{-7}$	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 @ 10 MHz carrier frequency Low phase noise for Vdc = 12 V	< -130 dBc/Hz	@ 10 Hz
	< -153 dBc/Hz	@ 100 Hz
	< -158 dBc/Hz	@ 1 kHz
	< -160 dBc/Hz	@ 10 kHz
Harmonics	> 30 dBc	
Operating temperature range	-10 ~ +60 °C, -20 ~ +70 °C, -40 ~ +70 °C or -40 ~ +85 °C	
Storage temperature range	-55 ~ +85 °C	
Case height (H)	12.7 mm or 16.0 mm	

Environmental test	
vibration	acceleration: 5 g; 10 Hz up to 200 Hz and down to 10 Hz; all 3 axes, 4.5 h/axis
shock	75 g, half-sine, 3 ms (3 shocks each, 6 directions)

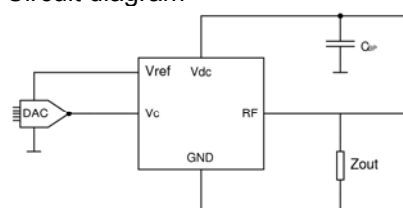


Pin function

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



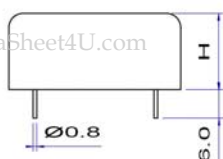
Circuit diagram



$$C_{BP} = 0.01 \text{ mF}$$

$$Z_{OUT} = 50 \Omega$$

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2002/95/EC RoHS compliant