

OCO-M36ADS

OCXO Sine Wave



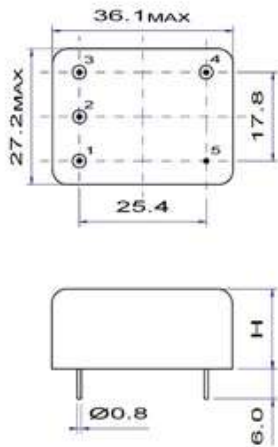
Features

- High Frequency stability vs Trange: up to $\pm 1 \times 10^{-10}$
- Low Phase Noise option

Parameter	Specification					
	OCO-M36ADS12					
Frequency Range	5.000 ~ 10.000 MHz					
Standard Frequencies	5.000MHz 8.192MHz 10.000MHz					
<u>Operating Temperature Range</u> Code	EH	GH	JK	NK	NN	Z
°C	0 / +60	-10 / +60	-20 / +70	-40 / +70	-40 / +85	Custom
Frequency Stability Code	n50		n30		n10	
vs <u>Operating Temperature Range</u> *Note 2	$\leq \pm 5 \times 10^{-10}$		$\leq \pm 3 \times 10^{-10}$		$\leq \pm 1 \times 10^{-10}$	
vs. Supply Voltage change [Vdc] $\pm 5\%$	$\leq \pm 1 \times 10^{-10}$					
vs. Load change $\pm 5\%$	$\leq \pm 1 \times 10^{-10}$					
vs. Aging after 30 days of operation	$\leq \pm 2 \times 10^{-8}$ 1 st year					
Short term Stability for Fo 10MHz *Note 2	$\leq 5 \times 10^{-12}$ @ 1s					
Output waveform	Sine wave [S]					
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	< 160 mA					
Warm-up current consumption @ +25 °C	< 700 mA					
Warm-up time @ +25 °C	< 10 min < $\pm 5 \times 10^{-8}$					
Electronic Frequency Control [EFC] range	> $\pm 4 \times 10^{-7}$ positive slope					
Voltage Control [Vc]	0 ~ +5.0 V					
Reference voltage output [Vref]	+5.0 V					
Phase Noise @ 10MHz [dBc/Hz]	SINE					
	Option	-			LN	
	10 Hz	≤ -125			≤ -130	
	100 Hz	≤ -143			≤ -148	
	1 kHz	≤ -152			≤ -155	
	10 kHz	≤ -158			≤ -160	
	100 kHz	≤ -158			≤ -160	
Storage temperature range	-55 ~ +80 °C					
Environmental test						
Vibration	acceleration: 10 g; 10 Hz up to 500 Hz and down to 10 Hz; all 3 axes					
Shock	150 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 # Vdc
- 4 # RF output
- 5 # GND

H = 19.0 mm

Ordering Guide:

OCO-M36ADS12-JKn30-LN-10MHz

Vdc OTR Phase Noise

Connection circuit

