

OCO-M36A

OCXO HCMOS / Sine Wave



Features

- Frequency: 8.192MHz to 40 MHz
- Supply Voltage option: 3.3V 5.0V 12.0V

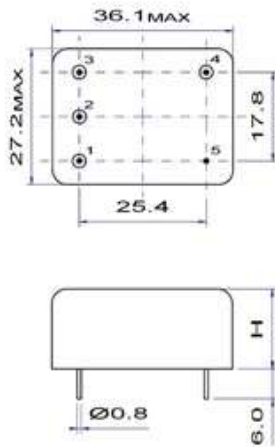
Parameter	Specification					
	OCO-M36A_3		OCO-M36A_5		OCO-M36A_12	
Frequency Range	8.192 ~ 40.000 MHz					
Standard Frequencies	10MHz		12.8MHz		13MHz 16.384MHz 20MHz	
<u>Operating Temperature Range</u> Code	EH	GH	JK	NK	NN	Z
°C	0 / +60	-10 / +60	-20 / +70	-40 / +70	-40 / +85	Custom
Frequency Stability Code	5n0		2n0		n50	
vs <u>Operating Temperature Range</u> *Note 2	$\leq \pm 5 \times 10^{-9}$		$\leq \pm 2 \times 10^{-9}$		$\leq \pm 5 \times 10^{-10}$	
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			$\leq \pm 3 \times 10^{-8}$		1 st year	
Short term Stability for Fo 10MHz *Note 2			$\leq 5 \times 10^{-12}$		@ 1s	
Output waveform	Sine wave [S]			HCMOS [H]		
Output Level	> 500 mV RMS			VOL < 0.5 V VOH > 4.0V		
Output Load	50Ω $\pm 5\%$			10kΩ / 30pF		
Harmonics	< -30 dBc			NA		
Supply Voltage [Vdc]	+3.3 V $\pm 5\%$		+5.0 V $\pm 5\%$		+12.0 V $\pm 5\%$	
Steady-state current consumption @ +25 °C	< 650 mA		< 400 mA		< 150 mA	
Warm-up current consumption @ +25 °C	< 1500 mA		< 950 mA		< 400 mA	
Warm-up time @ +25 °C			< 180s		< $\pm 2 \times 10^{-8}$	
Electronic Frequency Control [EFC] range			> $\pm 4 \times 10^{-7}$		positive slope	
Voltage Control [Vc]	0 ~ +3.0 V		0 ~ +4.5 V		0 ~ +5.0 V	
Reference voltage output [Vref]	+3.0 V		+4.5 V		+5.0 V	
Phase Noise @ 20MHz [dBc/Hz]			SINE		HCMOS	
	Option	-	LN [Vdc 5 & 12V]			
	10 Hz	≤ -120	≤ -125		≤ -120	
	100 Hz	≤ -135	≤ -140		≤ -140	
	1 kHz	≤ -140	≤ -150		≤ -145	
	10 kHz	≤ -150	≤ -153		≤ -150	
100 kHz	≤ -150	≤ -153		≤ -150		
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 # Vdc
- 4 # RF output
- 5 # GND



H = 12.7 mm

Ordering Guide:

OCO-M36AS5-JK2n0-LN-20MHz

Vdc OTR Phase Noise

Connection circuit

