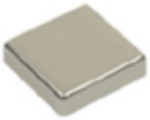
OCO-M50ADS

DOCXO Sine Wave



Features

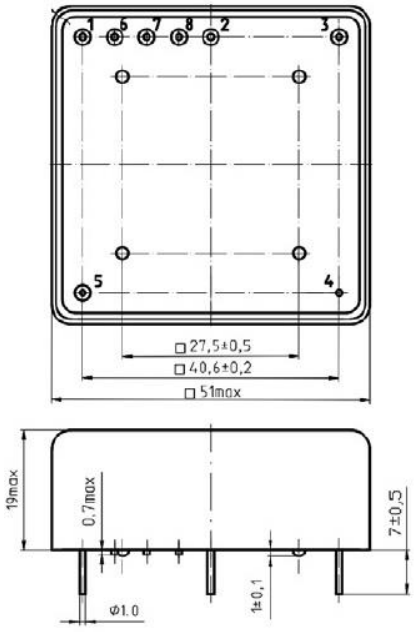
- Master clock reference
- High Frequency stability versus 20°C change: ≤ ± 1 x 10^{-11}
- Low Aging Option: ≤ ± 1 x 10^{-8}/year ≤ ± 5 x 10^{-11}/day

Parameter	Specification					
	OCO-M50ADS5			OCO-M50ADS12		
Frequency Range	10.000 MHz					
Standard Frequencies	10.000 MHz					
Operating **T**emperature **R**ange **Code**	**EH**	**GH**	**JK**	**NK**	**NN**	**Z**
°C	0 / +60	-10 / +60	-20 / +70	-40 / + 70	-40 / +85	Custom
Frequency Stability Code	**80p**		**50p**		**10p**	
vs **O**perating **T**emperature **R**ange *Note 2	≤ ± 8 x 10^{-11}		≤ ± 5 x 10^{-11}		≤ ± 1 x 10^{-11}	
vs. Supply Voltage change [Vdc] ±5 %	≤ ± 1 x 10^{-11}					
vs. Load change ±5 %	≤ ± 1 x 10^{-11}					
vs. Aging after 30 days of operation *Note 2	≤ ± 2 x 10^{-8} 1st year					
Short term Stability for Fo *Note 2	≤ 2 x 10^{-12} @ 1s					
Output waveform	**Sine wave**					
Output Level	> 300 mV RMS					
Output Load	50Ω ±5 %					
Harmonics	< - 30 dBc					
Supply Voltage [Vdc]	**+5.0 V ±5 %**			**+12.0 V ±5 %**		
Steady-state current consumption @ +25 °C	< 0.8 A			< 0.3 A		
Warm-up current consumption @ +25 °C	< 2.0 A			< 1.0 A		
Warm-up time @ +25 °C	< 15 min. < ±5 x 10^{-8}					
Electronic Frequency Control [EFC] range	NA					
Phase Noise @ 10MHz [dBc/Hz]		**+5.0 V**		**+12.0 V**		
	1 Hz	≤ -100		≤ -100		
	10 Hz	≤ -130		≤ -130		
	100 Hz	≤ -150		≤ -150		
	1 kHz	≤ -155		≤ -155		
	10 kHz	≤ -155		≤ -160		
Storage temperature range	-55 ~ +85 °C					

Environmental test	
Vibration	acceleration: 5 g; 10 Hz up to 200 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 # NC
2 # NC
3 # RF out
4 # GND
5 # Vdc
6 # NC
Factory use
7 # NC
Factory use
8 # NC
Factory use

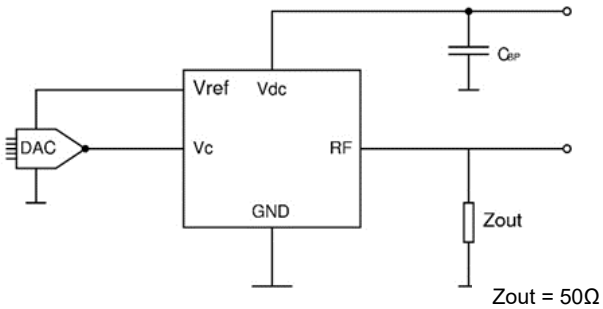
H = < 19 mm

Ordering Guide:

OCO-M50ADS12-JK50p-10MHz

Vdc OTR

Connection circuit



Zout = 50Ω

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