OCO-M25BS

High frequency OCXO Sine Wave

Features

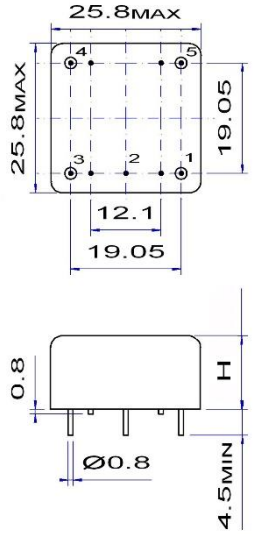
- High frequency: up to 500 MHz
- Ultra Low Phase Noise option

Parameter		Specification					
		OCO-M25BS5			OCO-M25BS12		
Frequency Range		48.000 ~ 500 MHz					
Standard Frequencies		50MHz 100MHz 122.880MHz 400MHz					
Operating Temperature Range	Code	EH	GH	JK	NK	NN	Z
	°C	0 / +60	-10 / +60	-20 / +70	-40 / + 70	-40 / +85	Custom
Frequency Stability	**Code**	**u50**		**u10**		**75n**	
vs Operating Temperature Range	Note 2	≤ ±5.0 x 10^{-7}		≤ ±1.0 x 10^{-7}		≤ ±7.5 x 10^{-8}	
vs. Supply Voltage change [Vdc] ±10 %		≤ ± 5 x 10^{-8}					
vs. Load change ±5 %		≤ ± 2 x 10^{-8}					
vs. Aging after 30days of operation 1st year		≤ ± 2 x 10^{-7}			**Code 17**	≤ ± 1 x 10^{-7}	
Output waveform		Sine wave					
Output level		> 400 mV RMS					
Output load		50Ω ±10 %					
Harmonics		< - 25 dBc					
Sub-harmonics		< - 45 dBc					
Supply Voltage [Vdc]		**+5.0 V ±5 %**			**+12.0 V ±5 %**		
Steady-state current consumption @ +25 °C		< 250 mA			< 120 mA		
Warm-up current consumption @ +25 °C		< 600 mA			< 300 mA		
Warm-up time @ +25 °C		< 120s		< ±2 x 10^{-7}			
Electronic Frequency Control [EFC] range		> ±2 x 10^{-6}		positive slope			
Voltage Control [Vc]		0 ~ +4.0 V			0 ~ +10.0 V		
Reference voltage output [Vref]		+4.0 V			+10.0 V		
Phase Noise @ 100MHz	**dBc/Hz**		**Vdc 5.0 V**		**Vdc 12.0 V**		
		Option	**-**	**LN**	**-**	**LN**	**ULN**
		10 Hz	≤ -95	≤-100	≤-95	≤-100	≤-102
		100 Hz	≤-127	≤-135	≤-127	≤-135	≤-137
		1 kHz	≤-156	≤-164	≤-156	≤-160	≤-164
		10 kHz	≤-172	≤-174	≤-172	≤-174	≤-176
		100 kHz	≤-174	≤-175	≤-176	≤-177	≤-178
Storage temperature range		-55 ~ +80 °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 # RF output
2 # GND
3 # Vc
4 # Vref
5 # Vdc

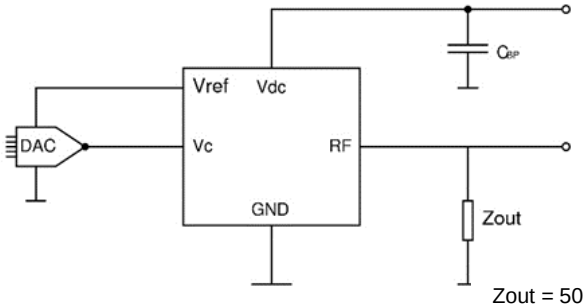
For standard type:
H = 10.5 mm

Ordering Guide:

OCO-M25BS5-NKu10-17-LN-100MHz

Vdc OTR Aging Phase Noise

Connection circuit



Zout = 50 Ω

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