

OCO-M25BS

High frequency OCXO Sine Wave



QuartzCom
the communications company



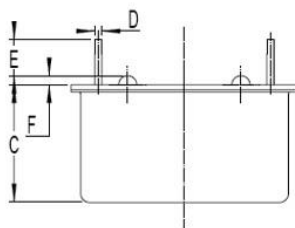
Features

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

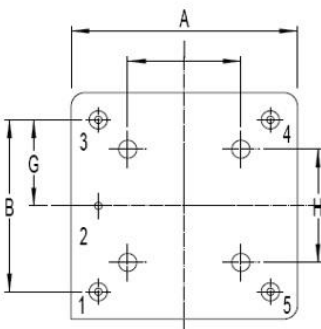
Parameter	Specification					
	OCO-M25BS5			OCO-M25BS12		
Frequency Range	48.000 ~ 500 MHz					
Standard Frequencies	50MHz 100MHz 122.880MHz 400MHz					
<u>Operating Temperature Range</u> Code	EH	GH	JK	NK	NN	Z
°C	0 / +60	-10 / +60	-20 / +70	-40 / +70	-40 / +85	Custom
Frequency Stability Code	u50		u10		75n	
vs <u>Operating Temperature Range</u> Note 2	$\leq \pm 5.0 \times 10^{-7}$		$\leq \pm 1.0 \times 10^{-7}$		$\leq \pm 7.5 \times 10^{-8}$	
vs. Supply Voltage change [Vdc] $\pm 10\%$	$\leq \pm 5 \times 10^{-8}$					
vs. Load change $\pm 5\%$	$\leq \pm 2 \times 10^{-8}$					
vs. Aging after 30days of operation 1 st year	$\leq \pm 2 \times 10^{-7}$			Code 17	$\leq \pm 1 \times 10^{-7}$	
Output waveform	Sine wave					
Output level	> 400 mV RMS					
Output load	50Ω $\pm 10\%$					
Harmonics	< - 25 dBc					
Sub-harmonics	< - 45 dBc					
Supply Voltage [Vdc]	+5.0 V $\pm 5\%$			+12.0 V $\pm 5\%$		
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			$< \pm 2 \times 10^{-7}$		
Electronic Frequency Control [EFC] range	$> \pm 2 \times 10^{-6}$			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	Option	Vdc 5.0 V		Vdc 12.0 V		
		-	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 ~ +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)



Symbol	Dimension (mm)	
	Min	Max
A		25.6
B	18.80	19.20
C		12.5
D	0.70	0.90
E	4.6	6.2
F	0.4	0.7
G	9.4	9.6
H	11.5 nominal	
I	11.5 nominal	



Pin No.	Pin Function
1	Output
2	GND
3	Vc
4	Vref
5	Vdc

Ordering Guide:

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

Vdc OTR Aging Phase Noise
Connection circuit

