

# OCO-M25BSN

High frequency OCXO Sine Wave



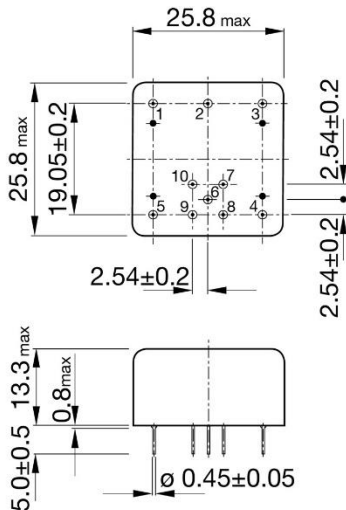
## Features

- High frequency: up to 1228.800MHz
- Short warm-up : < 60 seconds

Parameter	Specification						
	OCO-M25BSN5						
Frequency Range	48.000 ~ 1228.800 MHz						
Standard Frequencies	100MHz 122.880MHz 400MHz 800MHz 1000 MHz						
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		$\leq \pm 5.0 \times 10^{-7}$		$\leq \pm 1.0 \times 10^{-7}$	$\leq \pm 7.5 \times 10^{-8}$
		vs. Supply Voltage change [ Vdc ] $\pm 10\%$		$\leq \pm 1 \times 10^{-7}$			
		vs. Load change $\pm 5\%$		$\leq \pm 2 \times 10^{-8}$			
vs. Aging after 30 days of operation		$\leq \pm 1 \times 10^{-7}$ 1 <sup>st</sup> year					
Output waveform	Sine wave						
Output level	> 400 mV RMS						
Output load	50Ω $\pm 10\%$						
Harmonics	< - 20 dBc						
Sub-harmonics	< - 55 dBc						
Supply Voltage [ Vdc ]	<b>+5.0 V <math>\pm 5\%</math></b>						
Steady-state current consumption @ +25 °C	< 300 mA						
Warm-up current consumption @ +25 °C	< 600 mA						
Warm-up time @ +25 °C	< 60s		< $\pm 2 \times 10^{-7}$				
Electronic Frequency Control [ EFC ] range	> $\pm 2 \times 10^{-6}$ positive slope						
Voltage Control [ Vc ]	0 ~ +4.5 V						
Reference voltage output [ Vref ]	+4.7 V						
Phase Noise @ 1000 MHz			Typ.		Max.	Units	
	10Hz		-90		< -85	dBc/Hz	
	100Hz		-120		< -110		
	1kHz		-130		< -125		
	10kHz		-140		< -135		
100kHz		-145		< -147			
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



### Pin Function

1. NC
- 2 7-10 GND
3. Vc
4. Vref
5. Vdc
6. RF

## Ordering Guide:

**OCO-M25BSN5-NKu10-1000MHz**

Vdc OTR

Connection circuit

