



Features and Benefits

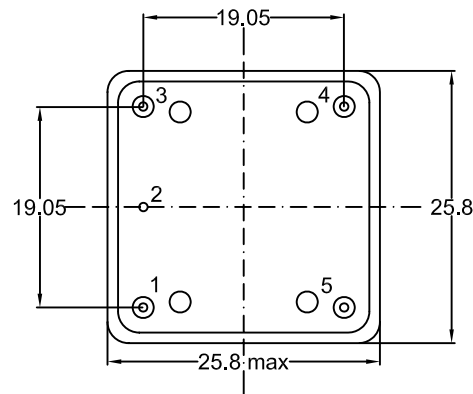
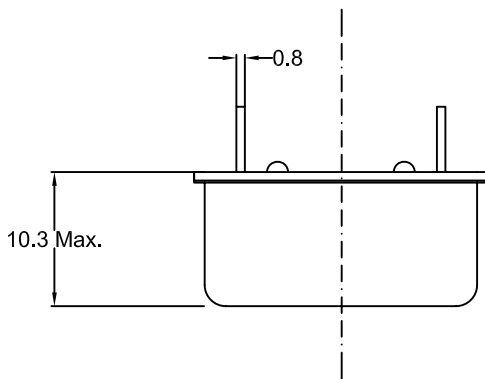
Frequency range: 48MHz to 1228.8MHz
5V or 12V Supply voltage
Sine wave Output waveform
25.8x25.8x10.3mm size

Typical Applications

Microwave Communication
Ref. for Microwave Signal Source
Test Equipment Reference
Telecommunication Systems

Mechanical Drawing & Pin Connections

Drawing No: MD200004-2



Pin	Function
1	Output
2	GND
3	Control Voltage
4	Reference Voltage
5	Supply Voltage

Unit in mm
1mm = 0.0394 inches



Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	F_{nom}		48		1228.8	MHz	
RF Output							
Signal Waveform			Sinewave				
Load				50		Ohm	±10%
Level			400			mV	RMS
Harmonics					-25	dBc	
Sub-harmonics		For frequency >130MHz	<-45...55			dBc	
Power Supply							
Supply Voltage	V_s			12V		V	5V optional
Current Consumption for 12V		Steady state @+25°C			115	mA	
		Warm-up @+25°C			370	mA	450mA max. for >130MHz
Current Consumption for 5V		Steady state @+25°C			250	mA	300mA max. for >130MHz
		Warm-up @+25°C			800	mA	
Warm-up Time		<±2x10 ⁻⁷ @25C			60	sec	
Frequency Stability							
Versus Operating Temperature Range		From -40°C to +70°C		±300		ppb	See Note1
Versus supply voltage	V_s				±100	ppb	
Versus Load					±20	ppb	
Aging 1 st Year					±100	ppb	See Note1

Note1: For reference only, the detail value, pls chose in the ordering information section.



Ordering Information

OCXO2525AN	-	xxMHz	-	01	02	03	04	05
Group				Code				

For example, OCXO2525AN-100MHz-2-2-2-1 denotes the OCXO has the following specifications:

- Stability Over Temperature: ±75 PPB
- Temperature Range: -10°C to +60°C
- Aging: ±1ppm/year
- Supply Voltage: 12.0V
- Phase noise: <-85dBc/Hz@10Hz
 <-115dBc/Hz@100Hz
 <-140dBc/Hz@1KHz
 <-160dBc/Hz@10KHz
 <-160dBc/Hz@100KHz

01	Frequency Stability
Code	Specification
1	±50 PPB
2	±75 PPB
3	±100 PPB
4	±300 PPB
5	±500 PPB

02	Temperature Range	Available Stability
Code	Specification	
1	0°C to +55°C	1 – 5
2	-10°C to +60°C	2 – 5
3	-20°C to +70°C	3 – 5
4	-40°C to +70°C	4 – 5
5	-40°C to +85°C	5

03	Aging
Code	Specification
1	±1.5PPM/Year
2	±1.0PPM/Year
3	±0.5PPM/Year
4	±0.3PPM/Year
5	±0.2PPM/Year
6	±0.1PPM/Year

04	Supply Voltage
Code	Specification
1	5V±10%
2	12±10%

05	Phase Noise for 100MHz		Phase Noise for 500MHz	Phase Noise for 1000MHz
	5V	12V	5V	5V
1	<-85dBc/Hz@10Hz <-115dBc/Hz@100Hz <-140dBc/Hz@1KHz <-152dBc/Hz@10KHz <-160dBc/Hz@100KHz	<-85dBc/Hz@10Hz <-115dBc/Hz@100Hz <-140dBc/Hz@1KHz <-160dBc/Hz@10KHz <-160dBc/Hz@100KHz	<-75dBc/Hz@10Hz <-95dBc/Hz@100Hz <-125dBc/Hz@1KHz <-140dBc/Hz@10KHz <-145dBc/Hz@100KHz	<-70dBc/Hz@10Hz <-100dBc/Hz@100Hz <-120dBc/Hz@1KHz <-135dBc/Hz@10KHz <-140dBc/Hz@100KHz
2	<-90dBc/Hz@10Hz <-120dBc/Hz@100Hz <-145dBc/Hz@1KHz <-155dBc/Hz@10KHz <-160dBc/Hz@100KHz	<-90dBc/Hz@10Hz <-120dBc/Hz@100Hz <-145dBc/Hz@1KHz <-162dBc/Hz@10KHz <-162dBc/Hz@100KHz	<-80dBc/Hz@10Hz <-100dBc/Hz@100Hz <-130dBc/Hz@1KHz <-140dBc/Hz@10KHz <-147dBc/Hz@100KHz	<-80dBc/Hz@10Hz <-105dBc/Hz@100Hz <-125dBc/Hz@1KHz <-137dBc/Hz@10KHz <-145dBc/Hz@100KHz
3	<-95dBc/Hz@10Hz <-125dBc/Hz@100Hz <-147dBc/Hz@1KHz <-157dBc/Hz@10KHz <-162dBc/Hz@100KHz	<-95dBc/Hz@10Hz <-125dBc/Hz@100Hz <-150dBc/Hz@1KHz <-165dBc/Hz@10KHz <-165dBc/Hz@100KHz	<-85dBc/Hz@10Hz <-110dBc/Hz@100Hz <-131dBc/Hz@1KHz <-145dBc/Hz@10KHz <-150dBc/Hz@100KHz	<-85dBc/Hz@10Hz <-105dBc/Hz@100Hz <-130dBc/Hz@1KHz <-140dBc/Hz@10KHz <-147dBc/Hz@100KHz
4	<-97dBc/Hz@10Hz <-125dBc/Hz@100Hz <-150dBc/Hz@1KHz <-160dBc/Hz@10KHz <-165dBc/Hz@100KHz	<-97dBc/Hz@10Hz <-125dBc/Hz@100Hz <-152dBc/Hz@1KHz <-167dBc/Hz@10KHz <-167dBc/Hz@100KHz	N/A	N/A

Note: The phase noise values only for reference. For the actual phase noise values, pls contact our us.