



Features and Benefits

Frequency range: 100MHz
Supply voltage: 12.0V
Steady current: 150mW
Output waveform: Sinewave
Frequency stability vs. operating temperature: ±300ppb
Aging: 300ppb/year
Phase noise@100KHz: -175dBc/Hz
Operating temperature: 0°C to +50°C
Size: 25.4x22x13.2mm

Typical Applications

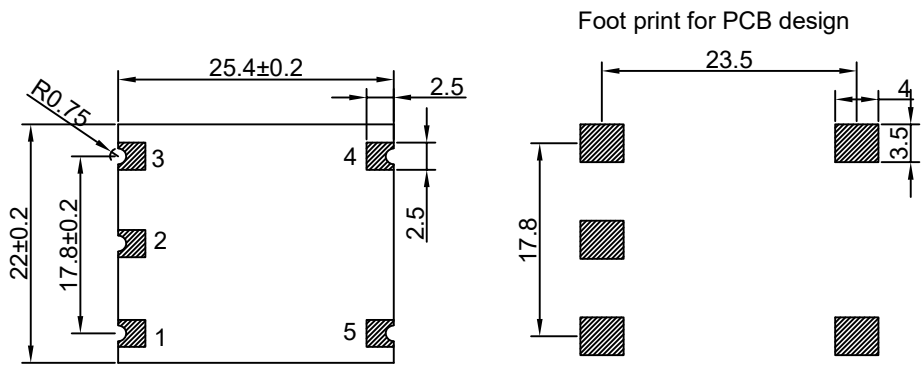
SATCOM System
Cellular Base Stations
Radar Applications

Description

OCXO2522AN-LN-100MHz-A-V is designed for applications where exceptional frequency stability and timing is required. It has both excellent temperature performance and short term stability. These characteristics make it an excellent choice for timing applications.

Mechanical Drawing & Pin Connections

Drawing No: MD240027-1



Pin Connections

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

Unit in mm
1mm = 0.0394 inches



Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	F_{nom}			100		MHz	
RF Output							
Signal Waveform			Sinewave				
Load	R_L		50			ohm	
Output Power			13			dBm	
Harmonic					-40	dBc	
Power Supply							
Supply Voltage	V_{cc}		11.75	12	12.25	V	
Power Consumption		Steady state			150	mA	
		Warm-up			300	mA	
Frequency Adjustment Range							
Reference Voltage Output	V_{ref}		7.9	8	8.1	V	
Tuning Voltage			0	4	8	V	
Tuning Range			-1		+1	ppm	
Frequency Stability							
Versus Operating Temperature Range				± 300		ppb	
Initial Frequency Accuracy			-50		+50	ppb	
Versus Supply Voltage					5	ppb	
Versus Load					5	ppb	
Aging Per Day					5	ppb	
Aging 1 st Year					300	ppb	
Phase noise		10Hz			-97	dBc/Hz	
		100Hz			-130	dBc/Hz	
		1kHz			-157	dBc/Hz	
		10kHz			-173	dBc/Hz	
		100kHz			-175	dBc/Hz	
Environmental, Mechanical Conditions							
Operating temperature range		0°C to +50°C					
Storage temperature range		-40°C to +85°C					