



Features and Benefits

Frequency range: 10MHz
Supply voltage: 5.0V
Steady current: 250mA
Output waveform: Sine wave
Frequency stability vs. operating temperature: ± 50 ppb
Aging: 100ppb/year
Phase noise@10KHz: -155dBc/Hz
Operating temperature: -30°C to +75°C
Size: 25.8x25.8x10.5mm

Typical Applications

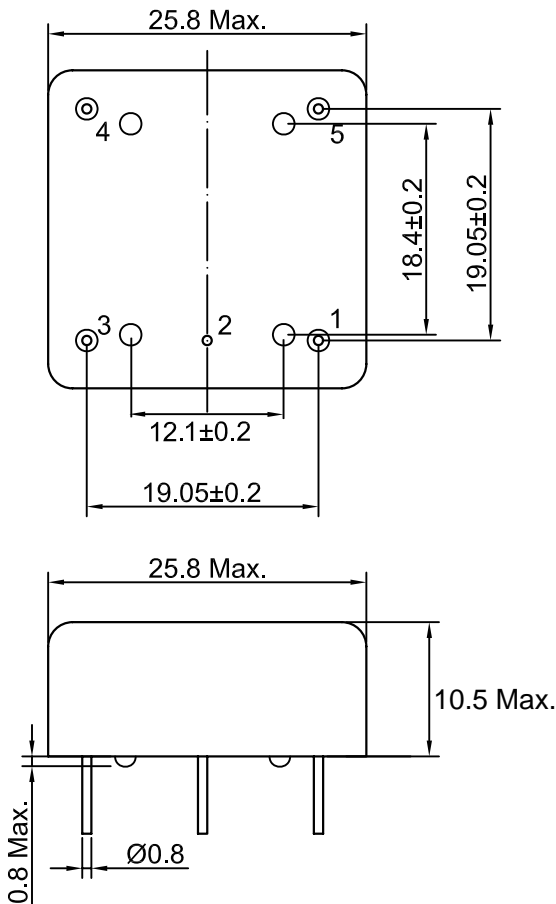
SATCOM System
Cellular Base Stations
Radar Applications

Description

OCXO2525AM-10MHz-C-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: MD240043-1



Pin Connection

Pin#	Function
#1	RF Output
#2	GND
#3	Control Voltage
#4	Vref
#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}			10		MHz	
RF Output							
Signal Waveform			Sinewave				
Load	R _L		50			ohm	
Output Power			+1	+5	+8	dBm	
Harmonic					-30	dBc	
Power Supply							
Supply Voltage	V _{cc}		4.75	5	5.25	V	
Warm up time			3			min	
Power Consumption		Steady state			250	mA	
		Warm-up			600	mA	
Frequency Adjustment Range							
Reference Voltage Output	V _{ref}		2.95	3.0	3.05	V	
Tuning Voltage			0	2.25	4.5	V	
Tuning Range			-0.5		+0.5	ppm	
Frequency Stability							
Versus Operating Temperature Range				±50		ppb	
Initial Frequency Accuracy		@+25°C	-100		+100	ppb	
Versus Supply Voltage					5	ppb	
Versus Load					5	ppb	
Aging Per Day					5	ppb	
Aging 1 st Year					100	ppb	
Phase noise		10Hz			-120	dBc/Hz	
		100Hz			-140	dBc/Hz	
		1kHz			-155	dBc/Hz	
		10kHz			-155	dBc/Hz	
Environmental, Mechanical Conditions							
Operating temperature range	-30°C to +75°C						
Storage temperature range	-55°C to +100°C						