OCXO2525AM-192MHz-A-V
25.8x25.8x12mm 192MHz OCXO_Oven Controlled Crystal Oscillator

Features and Benefits

Frequency range: 192MHz
Supply voltage: 12V
Steady current: 150mA/Max
Output waveform: Sinewave
Frequency stability vs. operating temperature: ±100ppb
Aging: 1000ppb per year
Phase noise@10KHz: -155dBc/Hz
Operating temperature: 0°C to +70°C
Size: 25.8x25.8x12mm
Package type: Through hole

Typical Applications

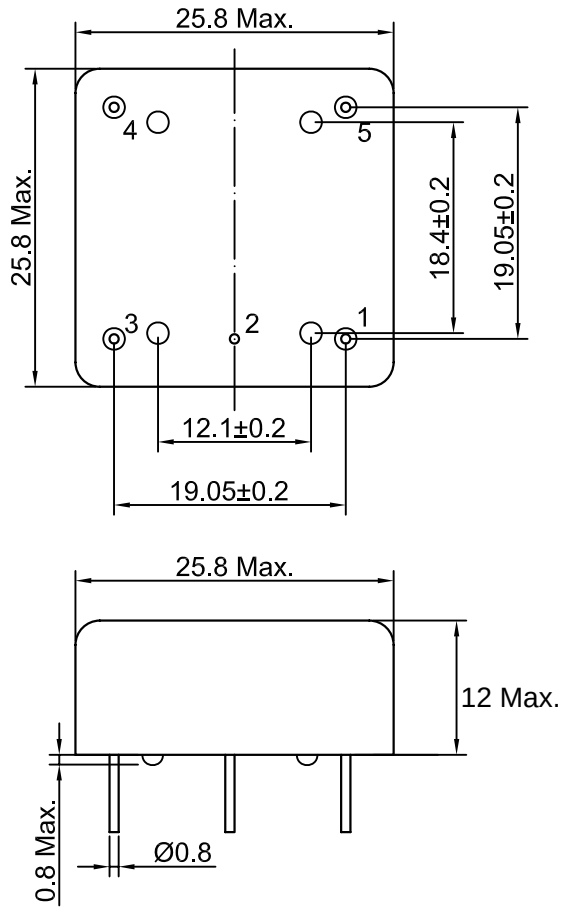
SATCOM System
Cellular Base Stations
Radar Applications

Description

OCXO2525AM-192MHz-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: MD240083-1



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}			192		MHz	
RF Output							
Signal Waveform				Sinewave			
Load	R_L			50		ohm	
Output Power			+5		+10	dBm	
Harmonic					-30	dBc	
Power Supply							
Supply Voltage	V_{cc}		11.75	12	12.25	V	
Warm up time			3			min	
Power Consumption		Steady state			150	mA	
		Warm-up			400	mA	
Frequency Adjustment Range							
Reference Voltage Output	V_{ref}			5		V	
Tuning Voltage			0	2.5	5	V	
Tuning Range			-0.5		+0.5	ppm	
Frequency Stability							
Versus Operating Temperature Range				±100		ppb	
Initial Frequency Accuracy		@+25°C	-100		+100	ppb	
Versus Supply Voltage					5	ppb	
Versus Load					5	ppb	
Aging Per Day					5	ppb	
Aging 1st Year					1000	ppb	
Phase noise		10Hz			-95	dBc/Hz	
		100Hz			-120	dBc/Hz	
		1kHz			-150	dBc/Hz	
		10kHz			-155	dBc/Hz	
Environmental,Mechanical Conditions							
Operating temperature range	0°C to +70°C						
Storage temperature range	-40°C to +100°C						