



Features and Benefits

- 122.88MHz Frequency
- 12V Supply voltage
- Sinewave Output
- ±10ppb Stability Vs -30°C -+70°C
- 25.8x25.8x12mm Size
- 150dBc/Hz @1KHz phase noise value

Typical Applications

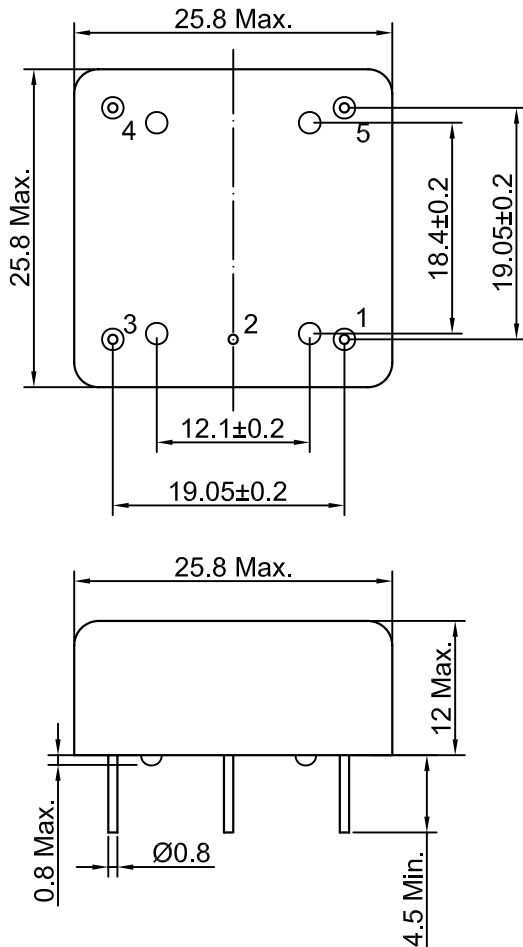
- SATCOM System
- Cellular Base Stations
- Radar Applications

Description

OCXO2525AR-122.88MHz-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: MD150013-6



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}			122.88		MHz	
RF Output							
Signal Waveform			Sinewave				
Load	R_L		50			ohm	
Output Power			$\bar{A}€$			dBm	
Harmonic					-30	dBc	
Power Supply							
Supply Voltage	V_S		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_S		7.9	8	8.1	V	
Tuning Voltage			0	4	8	V	
Tuning Range			-1		+1	ppm	
Frequency Stability							
Versus Operating Temperature Range				± 100		ppb	
Initial Frequency Accuracy			-0.1		+0.1	ppm	
Versus Supply Voltage					5	ppb	
Versus Load					5	ppb	
Aging Per Day					5	ppb	
Aging 1 st 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			-30°C to 70°C				
Storage temperature range			-55°C to 100°C				

