



Features and Benefits

- Frequency range: 104MHz
- Supply voltage: 5.0V
- Steady current: 250mA/Max
- Output waveform: Sinewave
- Frequency stability vs. operating temperature: ±100ppb
- Aging: 1000ppb per year
- Phase noise@10KHz: -155dBc/Hz
- Operating temperature: -45°C to +85°C
- Size: 25.8x25.8x12.7mm

Typical Applications

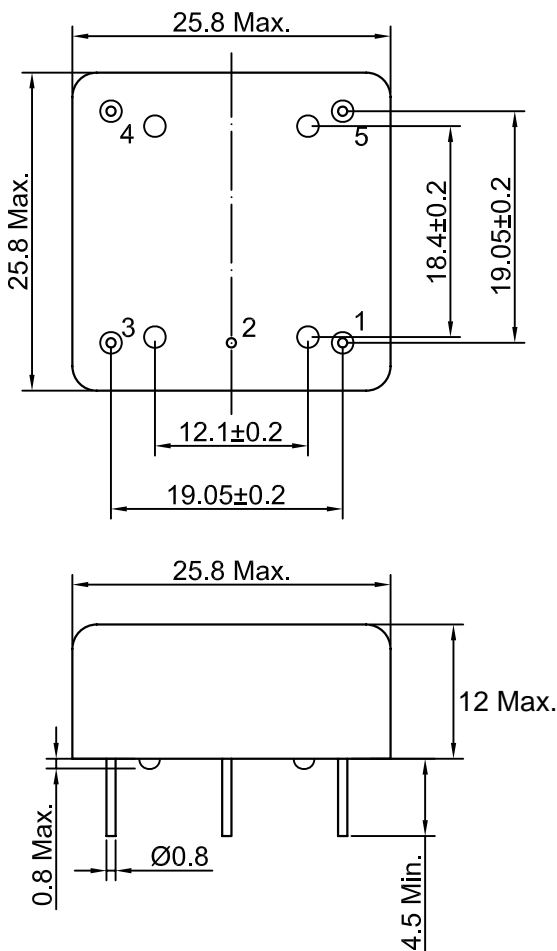
- SATCOM System
- Cellular Base Stations
- Radar Applications

Description

OCXO2525AM-104MHz-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

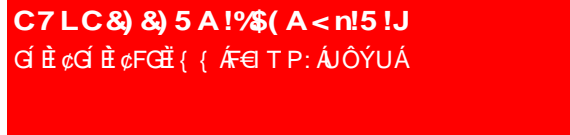
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Pin Connection

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}			104		MHz	
RF Output							
Signal Waveform			Sinewave				
Load	R _L		50			ohm	
Output Power			6	8	10	dBm	
Harmonic					-40	dBc	
Power Supply							
Supply Voltage	V _{cc}		4.75	5.0	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}		4.6	5.0	5.1	V	
Tuning Voltage			0	2.5	5.0	V	
Tuning Range			-0.5		+0.5	ppm	
Frequency Stability							
Versus Operating Temperature Range				±100		ppb	
Initial Frequency Accuracy			-100		+100	ppb	
Versus Supply Voltage					5	ppb	
Versus Load					5	ppb	
Aging Per Day					5	ppb	
Aging 1 st Year					1000	ppb	
Phase noise		10Hz			-90	dBc/Hz	
		100Hz			-115	dBc/Hz	
		1kHz			-150	dBc/Hz	
		10kHz			-155	dBc/Hz	
Environmental, Mechanical Conditions							
Operating temperature range			-45°C to +85°C				
Storage temperature range			-55°C to +100°C				