Dynamic Engineers Inc.
2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA
TEL: 1-281-870-8822 EMAIL:Sales@DynamicEng.com

OCXO2525AM-10MHz-A-V
25.8x25.8x13mm 10MHz OCXO

Features and Benefits

10MHz Frequency
5V Supply voltage
Sinewave Output
±50ppb Stability Vs -55°C --+70°C
25.8x25.8x13mm Size
-155dBc/Hz @1KHz phase noise value

Typical Applications

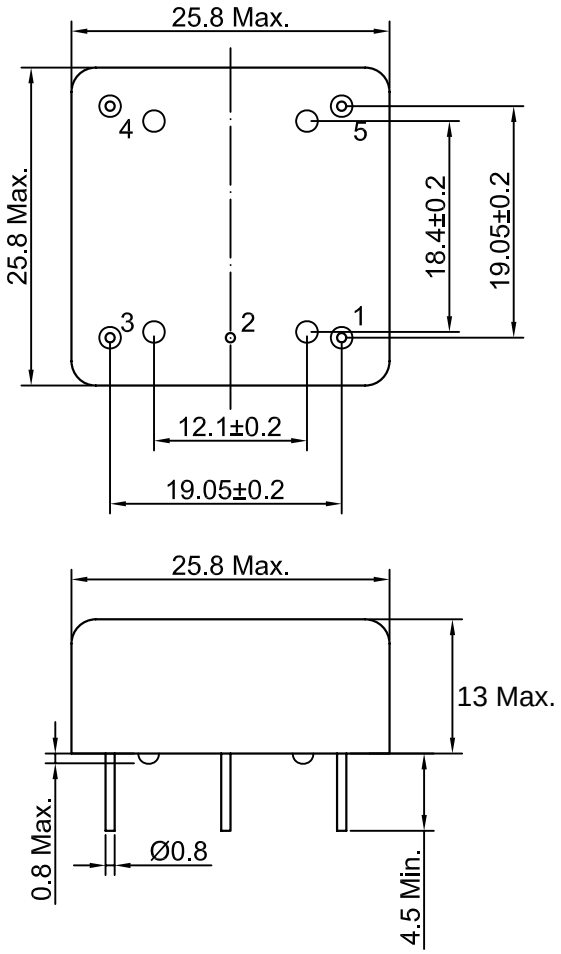
SATCOM System
Cellular Base Stations
Radar Applications

Description

OCXO2525AM-10MHz-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: MD150013-8



Pin Connection

Pin#	Function
#1	RF Output
#2	GND
#3	Control Voltage
#4	Vref
#5	Supply Voltage

Unit in mm
1mm = 0.0394 inches

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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			-2	0	2	dBm	
Harmonic					-30	dBc	
Power Supply							
Supply Voltage	V_S		4.75	5	5.25	V	
Power Consumption		Steady state			180	mA	
		Warm-up			500	mA	
Frequency Adjustment Range							
Reference Voltage Output	V_S		4.45	4.5	4.55	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			-50		+50	ppb	
Versus Supply Voltage					1	ppb	
Versus Load					1	ppb	
Aging Per Day					1	ppb	
Aging 1st Year					50	ppb	
Phase noise		10Hz			-125	dBc/Hz	
		100Hz			-145	dBc/Hz	
		1kHz			-155	dBc/Hz	
		10kHz			-160	dBc/Hz	
Environmental,Mechanical Conditions							
Operating temperature range	-55°C to 70°C						
Storage temperature range	-55°C to 100°C						

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