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

OCXO2525AM-10MHz-B-V
25.8x25.8x12.7mm 10MHz OCXO

Features and Benefits

Frequency range: 10MHz
Supply voltage: 3.3V
Steady current: 350mA/Max
Output waveform: Sinewave
Frequency stability vs. operating temperature: ±20ppb
Aging: 100ppb per year
Phase noise@10KHz: -155dBc/Hz
Operating temperature: -40°C to +85°C
Size: 25.8x25.8x12.7mm

Typical Applications

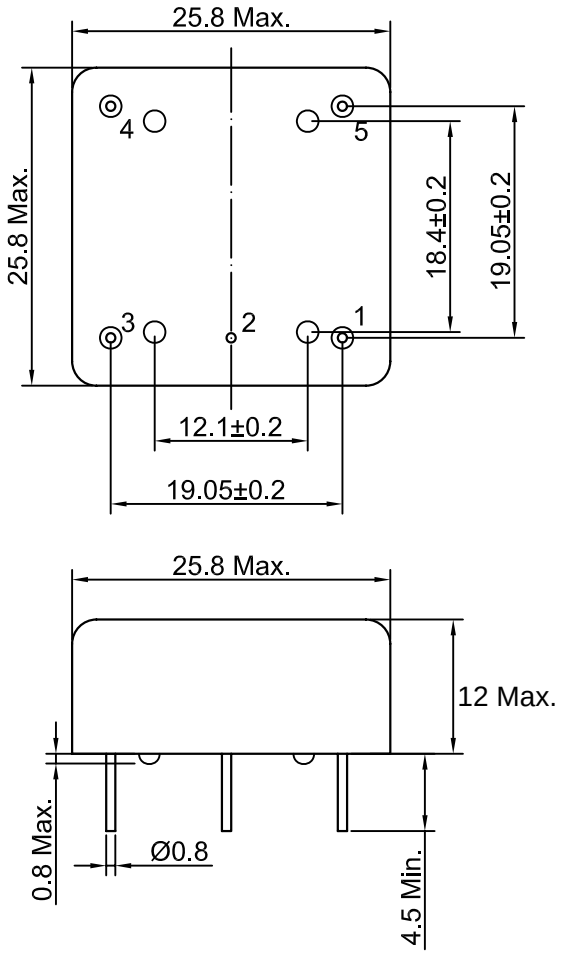
SATCOM System
Cellular Base Stations
Radar Applications

Description

OCXO2525AM-10MHz-B-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

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

OCXO2525AM-10MHz-B-V
25.8x25.8x12.7mm 10MHz OCXO

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			7	9	11	dBm	
Harmonic					-40	dBc	
Power Supply							
Supply Voltage	V_{cc}		3.25	3.3	3.45	V	
Warm up time			3			min	
Power Consumption		Steady state			350	mA	
		Warm-up			800	mA	
Frequency Adjustment Range							
Reference Voltage Output	V_{ref}		2.95	3.0	3.05	V	
Tuning Voltage	V_c		0	1.65	3.3	V	
Tuning Range			-0.5		+0.5	ppm	
Frequency Stability							
Versus Operating Temperature Range				±20		ppb	
Initial Frequency Accuracy			-100		+100	ppb	
Versus Supply Voltage					5	ppb	
Versus Load					5	ppb	
Aging Per Day					5	ppb	
Aging 1st 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	-40°C to +85°C						
Storage temperature range	-55°C to +100°C						