

## Dynamic Engineers Inc.

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

# **Features and Benefits**

Frequency range: 10MHz Supply voltage: 5.0V Steady current: 250mA Output waveform: Sine wave Frequency stability vs. operating temperature: ±50ppb Aging: 100ppb/year Phase noise@10KHz: -155dBc/Hz Operating temperature: -30°C to +75°C Size: 25.8x25.8x10.5mm

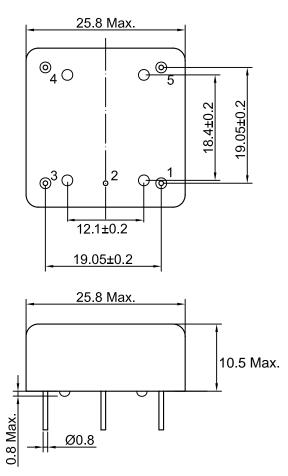
#### **Typical Applications**

SATCOM System Cellular Base Stations Radar Applications

#### Description

OCXO2525AM-10MHz-C-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

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# **Specifications**

Oscillator Specification	Sym	Condition	Value			11-11		
			Min.	Тур.	Max.	Unit	Note	
Operational Frequency	Fnom			10		MHz		
RF Output								
Signal Waveform			Sinewave					
Load	RL		50 ohm			ohm		
Output Power			+1	+5	+8	dBm		
Harmonic					-30	dBc		
Power Supply								
Supply Voltage	V <sub>cc</sub>		4.75	5	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 <sub>ref</sub>		2.95	3.0	3.05	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		@+25°C	-100		+100	ppb		
Versus Supply Voltage					5	ppb		
Versus Load					5	ppb		
Aging Per Day					5	ppb		
Aging 1 <sup>st</sup> Year					100	ppb		
Phase noise		10Hz			-120	dBc/Hz		
		100Hz		1	-140	dBc/Hz		
		1kHz		1	-155	dBc/Hz		
		10kHz		1	-155	dBc/Hz		
Environmental, Mechanical Conditions				•	•			
Operating temperature range	-30°C to +75°C							
Storage temperature range	-55°C to +100°C							

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