

### Dynamic Engineers Inc.

Website: www.DynamicEngineers.com Email: Inquiry@DynamicEngineers.com

### **tures and Benefits**

Frequency range: 10MHz Supply voltage: 10V Steady current: 200mA/Max Output waveform: Sinewave Frequency stability vs. operating temperature: ±10ppb Aging: ±35ppb per year Phase noise@10KHz: -155dBc/Hz Operating temperature: -40°C to +85°C Size: 25.8x25.8x10mm Package type: Through hole

OCXO2525AM-10MHz-D-V 25.8x25.8x10mm 10MHz OCXO Oven Controlled Crystal Oscillator



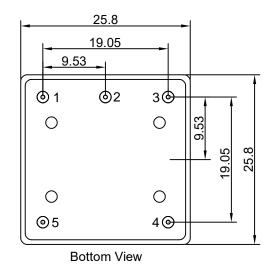
#### **Typical Applications**

SATCOM System **Cellular Base Stations** Radar Applications

#### Description

OCXO2525AM-10MHz-D-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**



Max. 9 Max. 0.76±0.08 0.8 35±0.51

Drawing No: MD250012-1

Pin Connections Pin Function 1 Output 2 GND Control Voltage 3 4 N.C./Vref 5 Supply Voltage

Unit in mm 1mm = 0.0394 inches

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Rev. 1

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# **Specifications**

Oscillator Specification	Sym	Condition		Value		Unit	Note
			Min.	Тур.	Max.		
Operational Frequency	Fo			10		MHz	
RF Output							
Signal Waveform			Sinewave				
Load	R∟		50			ohm	
Output Power			+4	+6	+8	dBm	
Harmonic					-30	dBc	
Spurious					-75	dBc	
Power Supply							
Supply Voltage	V <sub>cc</sub>	±2%		10		V	
Warm up time		to within ±100ppb			3	min	
Power Consumption		Steady state@+25°C			200	mA	
		Warm-up			600	mA	
Frequency Adjustment Range							
Reference Voltage Output	V <sub>ref</sub>			5		V	
Tuning Voltage	Vc		0	2.5	5	V	
Absolute Pulling			-		-		
Range@16(APR)(Positive Slope					±10	%	
Linearity)					-		
Frequency Stability					•		
Versus Operating Temperature Range					±10	ppb	
Frequency Tolerance@25±3°C		Vref=5.0V,Vc=2.5V( △F/ F₀)			±10	ppb	
Versus Supply Voltage		±5% change			±5	ppb	
Versus Load		±5% change			±5	ppb	
Allan Variance		1s		2	5	e-11	
Aging Per Day					±1	ppb	
Aging 1 <sup>st</sup> Year		1			±35	ppb	
Phase noise		10Hz			-125	dBc/Hz	
		100Hz			-140	dBc/Hz	
		1kHz			-150	dBc/Hz	
		10kHz			-155	dBc/Hz	
Environmental, Mechanical Conditions							
Operating temperature range	-40°C to	+85°C					
Storage temperature range	-50°C to						