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

OCXO2525AN-200MHz-A-V
High Stability 200MHz OCXO

Features and Benefits

Small package
Low phase noise
High Stability

Typical Applications

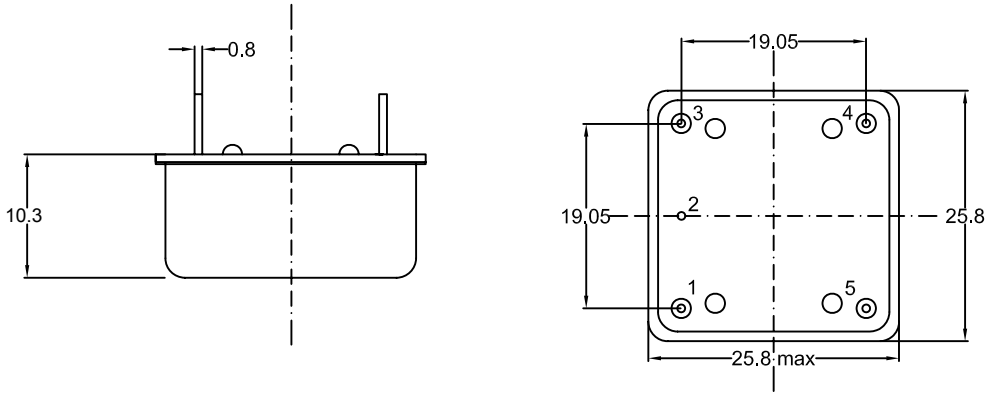
SATCOM System
Cellular Base Stations
Radar Applications

Description

OCXO2525AN-200MHz-A-V offers high frequency stability, low long-term aging and low phase noise, all in a compact package to suit the different communication needs.

Mechanical Drawing & Pin Connections

Drawing No: **MD200004-2**



Pin	Function
1	Output
2	GND
3	Control Voltage
4	Reference Voltage
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}			200		MHz	
RF Output							
Signal Waveform				Sinewave			
Load	R_L	±10%		50		ohm	
Level			400			mV	
Harmonic suppression					25	dBc	
Subharmonic suppression					60	dBc	
Power Supply							
Reference Voltage VREF Output			10		11	V	
Supply Voltage	V_S	±10%		12		V	
Warm-up Time	T_{up}	At +25°C to ∆f/f=2e-7			120	s	
Power Consumption		Steady state, +25°C			150	mA	
		Warm-up			400	mA	
Frequency Adjustment Range							
Electronic Frequency Control (EFC)			±2.5			ppm	
EFC voltage	V_c		0		10	V	
Frequency Stability							
Versus Operating Temperature Range					±0.1	ppm	
Versus Load		±5%			±20	ppb	
Versus supply voltage		±5%			±0.1	ppm	
Aging 1st Year		After 30 working day			±0.1	ppm	
SSB Phase noise		10Hz			-90	dBc	
		100Hz			-120	dBc	
		1kHz			-140	dBc	
		10kHz			-155	dBc	
		100kHz			-165	dBc	
Environmental,Mechanical Conditions							
Operating temperature range	-40°C to 70°C						
Storage temperature range	-55°C to 70°C						
Vibration	Frequency Range Acceleration:10 to 500Hz,5g						