

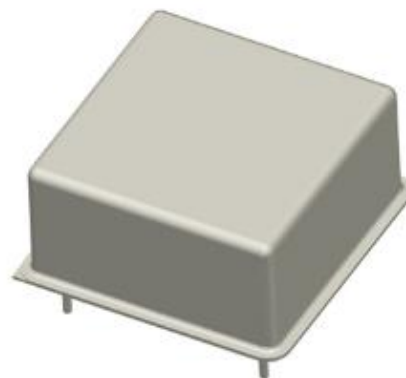


Features and Benefits

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

Typical Applications

SATCOM System
Cellular Base Stations
Radar Applications

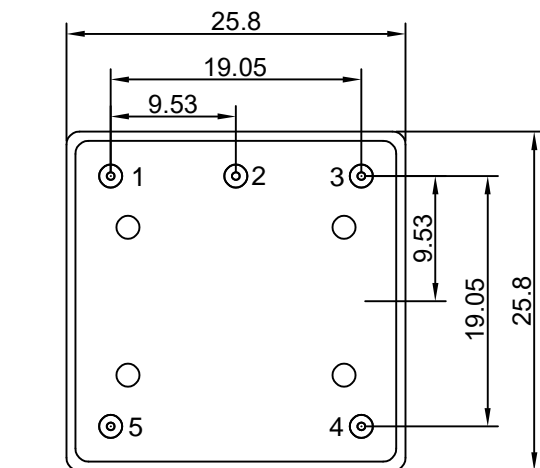


Description

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

Drawing No: MD250012-1



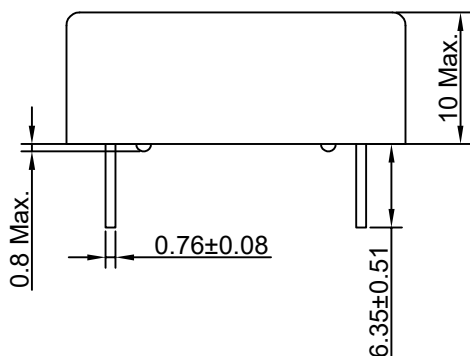
Bottom View

Pin Connections

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

Unit in mm

1mm = 0.0394 inches





Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	F ₀			10		MHz	
RF Output							
Signal Waveform			Sinewave				
Load	R _L		50			ohm	
Output Power			+4	+6	+8	dBm	
Harmonic					-30	dBc	
Spurious					-75	dBc	
Power Supply							
Supply Voltage	V _{cc}	±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 _{ref}			5		V	
Tuning Voltage	V _c		0	2.5	5	V	
Absolute Pulling Range@16(APR)(Positive Slope, Linearity)					±10	%	
Frequency Stability							
Versus Operating Temperature Range					±10	ppb	
Frequency Tolerance@25±3°C		V _{ref} =5.0V, V _c =2.5V(ΔF/ F ₀)			±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 st Year					±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 +95°C						