



### Features and Benefits

- 100MHz Frequency
- 12V Supply voltage
- Sinewave Output
- ±10ppb Stability Vs -45°C --+85°C
- 25.8x25.8x10mm Size
- 155dBc/Hz @1KHz phase noise value

### Typical Applications

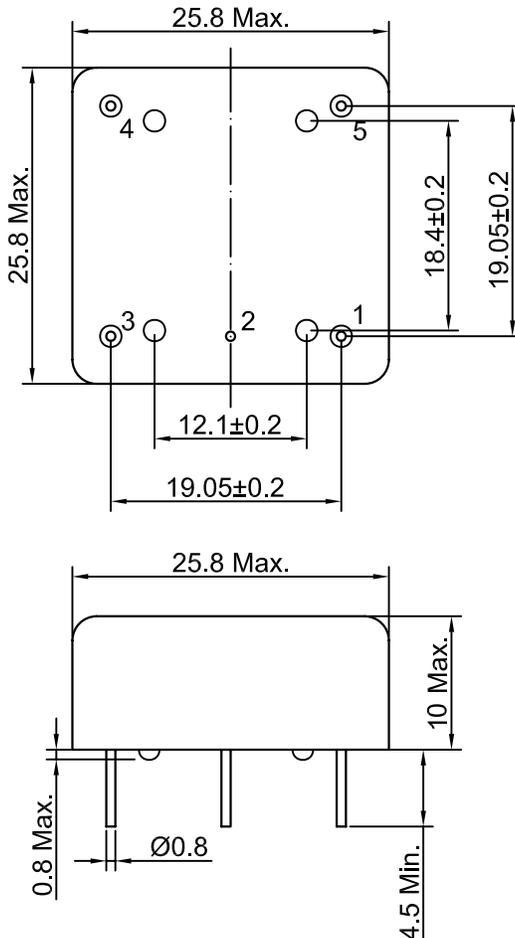
- SATCOM System
- Cellular Base Stations
- Radar Applications

### Description

OCXO2525AM-100MHz-A-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: MD150013+



### Pin Connection

Pin#	Function
#1	RF Output
#2	GND
#3	Control Voltage
#4	Vref
#5	Supply Voltage

Unit in mm  
1mm = 0.0394 inches



## Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	$F_{nom}$			100		MHz	
<b>RF Output</b>							
Signal Waveform			Sinewave				
Load	$R_L$		50			ohm	
Output Power			7	10		dBm	
Harmonic					-40	dBc	
<b>Power Supply</b>							
Supply Voltage	$V_s$		11.75	12	12.25	V	
Power Consumption		Steady state			150	mA	
		Warm-up			400	mA	
<b>Frequency Adjustment Range</b>							
Reference Voltage Output	$V_s$		7.9	8	8.1	V	
Tuning Voltage			0	4	8	V	
Tuning Range			-2		+2	ppm	
<b>Frequency Stability</b>							
Versus Operating Temperature Range				$\pm 100$		ppb	
Initial Frequency Accuracy			-50		+50	ppb	
Versus Supply Voltage					5	ppb	
Versus Load					5	ppb	
Aging Per Day					5	ppb	
Aging 1 <sup>st</sup> Year					1000	ppb	
Phase noise		10Hz			-95	dBc/Hz	
		100Hz			-125	dBc/Hz	
		1kHz			-155	dBc/Hz	
		10kHz			-160	dBc/Hz	
		100kHz			-165	dBc/Hz	
<b>Environmental, Mechanical Conditions</b>							
Operating temperature range	-45°C to 85°C						
Storage temperature range	-55°C to 100°C						