# **C7 LC8) &) @- &'% A < n!5 !J**Pã @Ûæàāãî ÁJÔÝUÁ, ão@Ûā,^ÁY æç^ÁJˇð, °Á

#### **Features and Benefits**

92.16MHz Frequency
12V Supply voltage
Sinewave Output waveform
±100ppb Stability Vs -55°C --+70°C
25.8x25.8x12.7mm Size
-135dBc/Hz @1KHz phase noise value

### **Typical Applications**

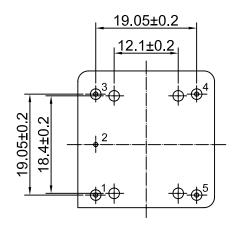
SATCOM System Cellular Base Stations Radar Applications

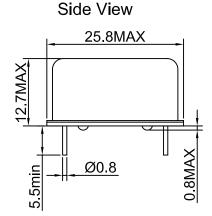
#### **Description**

OCXO2525L-92.16MHz-A-V are 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**

**Bottom View** 





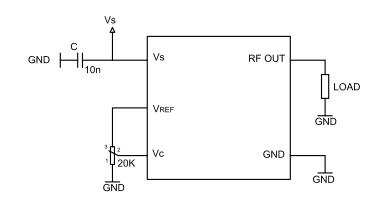
Drawing No: MI

MD1' 00&&-&

#### Pin Connections:

PIN#	Symbol	CONNECTION				
1	RF OUT	RF Output				
2	GND	Ground,case				
3	Vc	Control Voltage(EFC)				
4	VREF	Reference Voltage				
5	Vs	Supply Voltage				

Unit in mm 1mm = 0.0394 inches





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# **Specifications**

	cillator	Sym	Condition		Value		Unit	Note
	ification	·	Condition	Min.	Тур.	Max.		Note
Operational Freque	ency	F <sub>nom</sub>			92.16		MHz	
RF Output			l	1	0:			
Signal Waveform		D	. 50/	1	Sinev	vave	- ahm	
Load Output Level		R <sub>L</sub>	±5%	+7	50		ohm dBm	
Harmonics				+1		-30	dBc	
Spurious						-90	dBc	
Power Supply							<u> </u>	
Supply Voltage		Vs		11.4	12	12.6	V	
Warm-up Time		T <sub>up</sub>	@ +25 °C		3	5	min	∆ffinal/f0 < ±0.1 ppm
Current Consumption	on		Steady state, +25°C Warm-up			150 350	mA mA	
Frequency Adjust	ment Range							
Electronic Frequence				±0.8			ppm	
EFC voltage		V <sub>c</sub>		0	Vref/2	Vref	V	
Reference voltage	Vref output				10		V	
Input Impedance				100			kohm	
EFC Slope					positive			
Frequency Stability Versus Operating T	omporatura Banas		55°C +0 70°C		. 100		nnh	
Initial Tolerance @-			-55°C to 70°C V <sub>c</sub> @ Vref/2	1	±100	±300	ppb ppb	
Versus supply voltage			±5% change			±300	ppb	
Versus load	igo		±5% change			±5	ppb	
Aging Per Day			±070 onange				11.	
Aging 1st Year			after 30 days operation			±2	ppb	
Aging 1 Teal					±50	±200	ppb	
SSB Phase noise			100Hz 1kHz			-110 -135	dBc dBc	
			10kHz			-140	dBc	
<b>Absolute Maximur</b>	m Ratings							
Supply Voltage Vs			Vs to GND	-0.5		Vs +10%	V	
Control Voltage Vc			Vc to GND	-0.5		15	V	
Weight		20g						
Operating temperat		-55°C to 7						
Storage temperatur		-55°C to 1	25°C					
Environmental Co	IEC 60068	IEC 60679-1	MIL-STD- 2020	) MIL C	TD- 810F	MIL-PRE	-	Test conditions
Test	Part	Clause	Method	Metho		55310D		(IEC) Gross leak: Test
Sealing tests	2-17	5.6.2	112E					Qc, Fine leak: Test Qk
Solderability Resistance to soldering heat	2-20 2-58	5.6.3	208H 210F			3.6.52 3.6.48		Test Ta Method 1 Test Td1 Method 2 Test Td2 Method 2
Shock	2-27	5.6.8	213B	516.4		3.6.40		Test Ea, 3 x per axes 100g, 6 ms half-sine pulse
Vibration, sinusoida	2-6	5.6.7.1	201A 204D	516.4	-4	3.6.38.1 3.6.38.2		Test Fc, 30 min per axes, 10 Hz - 55 Hz 0,75mm; 55 Hz - 2 kHz, 10g
Vibration, random	2-64	5.6.7.3	214A	514.5		3.6.38.3 3.6.38.4		Test Fdb
Endurance tests - ageing - extended aging		5.7.1 5.7.2	108A			4.8.35		30 days @ 85°C, OCXO @25°C 1000h, 2000h, 8000h @85°C