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

OCXO2525L-80MHz-A-V
High Stability OCXO with Sine Wave Output

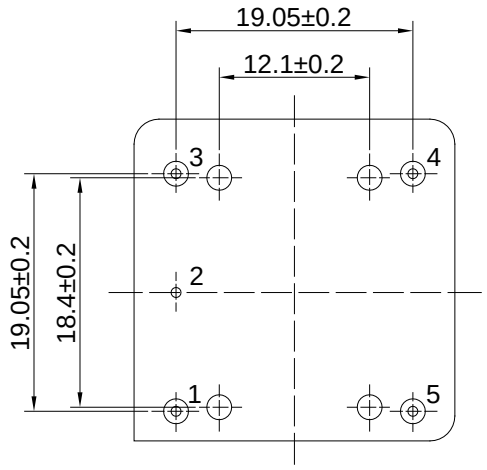
Features and Benefits
Low Phase Noise
Very Low Aging
High Frequency Stability

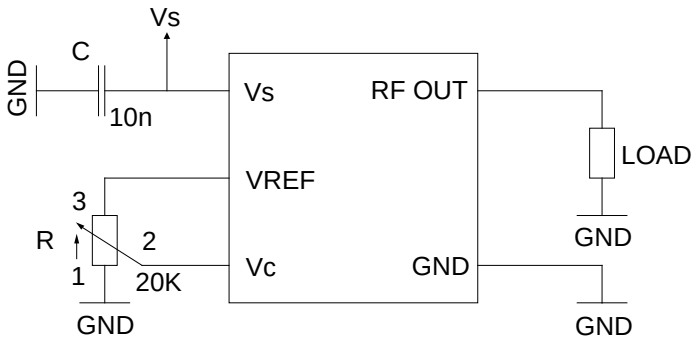
Typical Applications
Ref. for Microwave comm. System
signal analyzer Reference for internal synthesizers
SATCOM systems

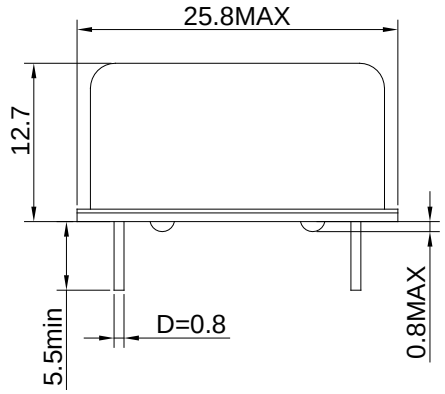
Description
OCXO2525L family offers a specially designed SC–cut crystal impedance matched to the oscillator and amplifier circuits to deliver consistent world class phase noise on all production shipments

Mechanical Drawing & Pin Connections

Drawing No: **MD13022-3**







Pin connections

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

Unit = mm
1mm=0.03937inch

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Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency Range	F_{nom}			80		MHz	
Initial Tolerance		Vc@VREF/2		±100	±300	ppb	
RF Output							
Output Wave Form :				Sine wave			
Load	R_L			50		Ohm	+/-5%
Output level			+7			dBm	
Harmonics					-30	dBc	
Spurious					-90	dBc	
Warm-up time		$\triangle f_{final}/f_0$<±0.1ppm		3	5	min	
Power Supply							
Supply Voltage	V_s		11.4	12.0	12.6	V	
Current consumption(Steady state)					150	mA	@ +25°C
Current consumption(Warm-up)					350	mA	
Frequency adjustment range							
Electronic Frequency Control(EFC)			±1			ppm	
EFC Voltage	V_c		0	Vref/2	Vref	V	
EFC Slope				positive			
EFC input impedance			100			kOhm	
Reference voltage Vref output				10.0		V	
Frequency Stability							
Vs. Temperature		From -20°C to +70°C			± 50	ppb	Steady state
Vs. Supply Voltage Variation		Vs±5%			±10	ppb	Pushing
Vs. load change		R_L+/-5%			±5	ppb	Pulling
Aging per day		after 30days of operation			±2	ppb	
Aging first year				±100	±200	ppb	
G-Sensitivity				0.5	1	ppb/G	
Phase Noise							
SSB Phase noise		@10 Hz			-95	dBc/Hz	
		@100 Hz			-125		
		@1 KHz			-155		
		@10 KHz			-160		
		@100 KHz			-165		
Absolute Maximum Ratings							
Supply Voltage	Vs		-0.5		Vs+10%	V	Vs to GND
Control Voltage	Vc		-0.5		15	V	Vc to GND
Environmental							
Operating Temperature			-20		+70	°C	
Storage Temperature			-55		+105	°C	
Weight					20	g	
Packing				Palette			