OCXO2526L
High Stability OCXO with Sine wave Output

Features and Benefits

High stability OCXO
Sine wave output
Frequency Tuning Input
5 minutes max warm-up
25.8x25.8x12.7mm max

Description

OCXO2526L family offers a specially designed 5 to 150MHz SC-cut or AT-Cut crystal impedance matched to the oscillator and amplifier circuits to deliver consistent world class phase noise on all production shipments.

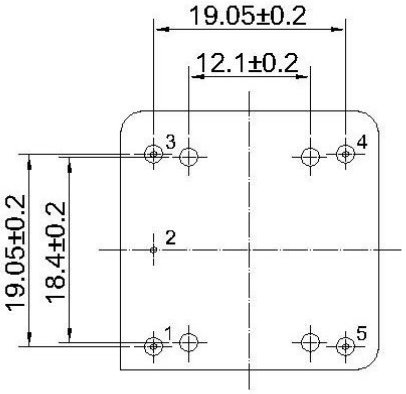
Typical Applications

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

Mechanical Drawing & Pin Connections

Drawing No: MD13022-2

Bottom View

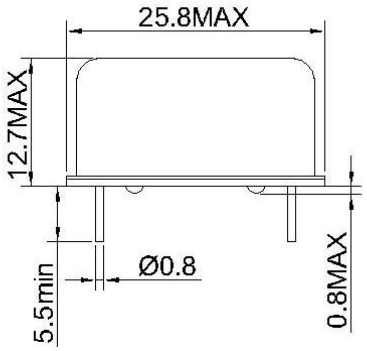


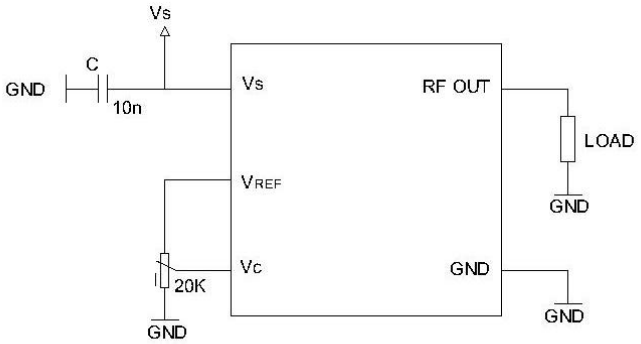
Pin Connections:

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 : mm

Side View





Specifications

OCXO Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency Range	F_0		5		150	MHz	
Standard Frequencies			10.000/100.000/125.000			MHz	
RF Output							
Output Waveform			Sine wave				
Load	R_L	+/-5%		50		Ohm	
Output Level			+7			dBm	
Harmonics					-30	dBc	
Spurious					-90	dBc	
Power Supply							
Voltage	Vcc		4.75	5.0	5.25	V	Optional
			11.4	12.0	12.6		
Current Consumption(Steady State)	I_{Steady}	@ Vcc=5V			250	mA	Optional
		@ Vcc=12V			150		
Current Consumption(Warm-up)	$I_{Warm-up}$	@ Vcc=5V			600	mA	Optional
		@ Vcc=12V			350		
Warm-up Time@+25°C		$\triangle f_{final}/f_0$<+/-0.1ppm		3	5	min	
Frequency Control*							
Electronic Frequency Control(EFC)		For AT-Cut	+/-2		+/-5	ppm	
		For SC-Cut	+/-0.8				
Reference Output	V_{REF}	@ Vcc=5V		4.0		V	Optional
		<=40MHz @ Vcc=12V		5.0		V	
		>40MHz @ Vcc=12V		10.0		V	
EFC Voltage	Vc		0	$V_{REF}/2$	V_{REF}	V	
EFC Input Impedance			100			Kohm	
EFC Slope	$\triangle f/Vc$		Positive				
Frequency Stability							
Initial Tolerance @+25°C		Vc @ $V_{REF}/2$			+/-300	ppb	
Vs. Operating Temperature Range		Steady state			+/-10	ppb	For more information, Please consult sale
Vs. Supply Voltage Variation(Pushing)		Vs+/-5%			+/-10	ppb	
Vs. Load Change(Pulling)		Load+/-5%			+/-5	ppb	
Aging: Long Term Per Day (After 30 Days Operation)		For AT-Cut			+/-10	ppb	Optional
		For SC-Cut			+/-2		
Aging: Long Term 1st Year (After 30 Days Operation)		For AT-Cut		+/-300	+/-500	ppb	Optional
		For SC-Cut		+/-50	+/-200		
Phase Noise							
Consult Sale							
Environmental							
Packing	Palette						
Size	25.8x25.8x12.7mm max						
Weight	20g max						