

OCXO2525L

High Stability OCXO with HCMOS Output

Features and Benefits

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

Description

OCXO2525L family offers a specially designed 5 to 40MHz 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.

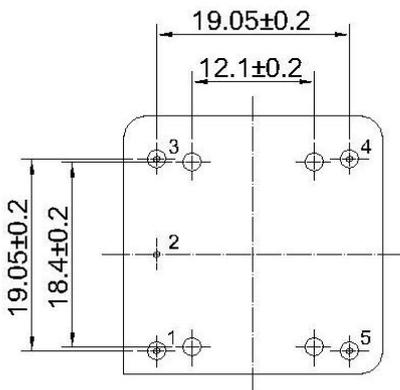
Typical Applications

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

Mechanical Drawing & Pin Connections

Drawing No: MD13022-2

Bottom View

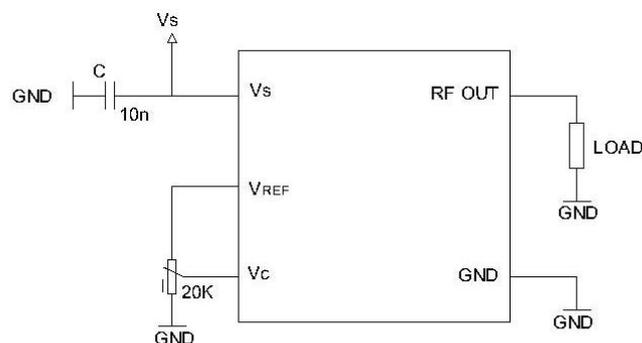
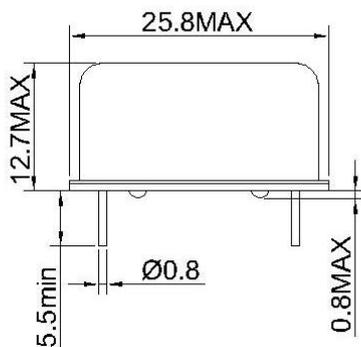


Pin Connections:

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



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Specifications

OCXO Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency Range	F ₀		5		40	MHz	
Standard Frequencies			10.000/12.800/20.000/40.000			MHz	
RF Output							
Output Waveform			HCMOS				
Load		+/-10%		15		pF	
Symmetry(Duty Cycle)		@V _{cc} /2	40		60	%	
Rise & Decay Time		@10% to 90% V _{cc}			5	ns	
Power Supply							
Voltage	V _{cc}		3.15 4.75	3.3 5.0	3.45 5.25	V	Optional
Current Consumption(Steady State)	I _{steady}	+25°C @ V _{cc} =3.3V +25°C @ V _{cc} =5.0V			350 250	mA	Optional
Current Consumption(Warm-up)	I _{warm-up}	@ V _{cc} =3.3V @ V _{cc} =5.0V			900 600	mA	Optional
Warm-up Time@+25°C		Δf _{final} /f ₀ <+/-0.1ppm		3	5	min	
Frequency Control*							
Electronic Frequency Control(EFC)		For AT-Cut For SC-Cut	+/-2 +/-0.8		+/-5	ppm	
Reference Output	V _{REF}	@ V _{cc} =3.3V @ V _{cc} =5.0V		3.0 4.0		V	Optional
EFC Voltage	V _c		0	V _{REF} /2	V _{REF}	V	
EFC Input Impedance			100			Kohm	
EFC Slope	Δf/V _c			Positive			
Frequency Stability							
Initial Tolerance @+25°C		V _c @ 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+/-10%			+/-5	ppb	
Aging	Long Term Per Day (After 30 Days Operation)	For AT-Cut			+/-10	ppb	Optional
		For SC-Cut			+/-2	ppb	
	Long Term 1 st Year (After 30 Days Operation)	For AT-Cut		+/-300	+/-500	ppb	Optional
		For SC-Cut		+/-50	+/-200	ppb	
Phase Noise							
Consult Sale							
Environmental							
Packing	Palette						
Size	25.8x25.8x12.7mm max						
Weight	20g max						