Features and Benefits

High stability OCXO HCMOS output Frequency Tuning Input 5 minutes max warm-up 20.5x20.5x12mm max

Description

The OCXO2020L family offers a specially designed from 10 to 125MHz 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

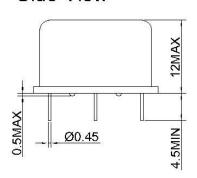
Drawing No: MD140063-1

Pin Connections:

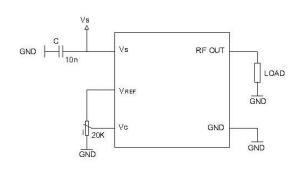
Pin	Symbol	Function				
1	Vs	Supply Voltage				
2	RF OUT	RF Output				
3	GND	Groung				
4	Vc	Control Voltage(EFC)				
5	VREF	Reference Voltage				

Unit: mm

Side View



20.5MAX



Specifications

OCXO Specification		Sym	Condition	Value			11-14	Note	
				Min.	Тур.	Max.	Unit	Note	
Frequency Range		F ₀		10		125	MHz		
Standard Frequencies				10.000	12.800/20.000/	100.000	MHz		
RF Output									
Output Waveform					HCMOS				
Load			+/-10%		15		pF		
Symmetry(Duty Cycle)			@ Vs/2	40		60	%		
Rise & Decay Time			@10% to 90% Vs			5	ns		
Power Supply									
				3.15	3.3	3.45			
Voltage		Vcc		4.75	5.0	3.45	V	Optional	
				11.6	12.0	12.6			
			@ Vcc=3.3V			300			
Current Co	nsumption(Steady State)	ISteady	@ Vcc=5.0V			200	mA	Optional	
			@ Vcc=12.0V			100			
		lWarm-	@ Vcc=3.3V			800			
Current Co	ensumption(Warm-up)	up	@ Vcc=5.0V			600	mA	Optional	
		ир	@ Vcc=12.0V			300			
Warm-up Time@+25°C			\triangle ffinal/f0<+/-0.1ppm		3	5	min		
Frequency	/ Control*								
Flectronic	Frequency Control(EFC)		For AT-Cut	+/-2		+/-5	ppm		
Licotronio			For SC-Cut	+/-0.8					
		VREF	@ Vcc=3.3V		3.0		V		
Reference	Reference Output		@ Vcc=5.0V		4.0		V Optional	Optional	
			@ Vcc=12.0V		5.0				
EFC Voltage		Vc		0	VREF/2	VREF	V		
EFC Input Impedance				100			Kohm		
EFC Slope		△f/Vc			Positive				
Frequency Stability			I						
Initial Tolerance @+25°C			Vc @ Vref/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%			+/-10	ppb		
Aging	Long Term Per Day		For AT-Cut			+/-10	ppb	Optional	
	(After 30 Days Operation)		For SC-Cut			+/-2	ррь	Ориона	
	Long Term 1 st Year		For AT-Cut		+/-300	+/-500	ppb	Optional	
	(After 30 Days Operation)		For SC-Cut		+/-50	+/-200	PP~	- p	
Phase Noise									
Consult Sale									
Environmental									
Packing		Palette							
Size		20.5x20.5x12mm max							
Weight		10g max	(