Features and Benefits

80MHz to 160MHz frequency Output 3.3V supply Voltage 50mA MAX supply current 20.0x13.1x6.1mm max

Description

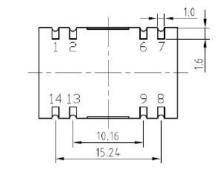
PLXO2013L is Phase noise Locked with HCMOS output

Typical Applications

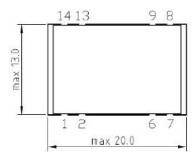
SATCOM Receiver Test Equipment Radar

Mechanical Drawing & Pin Connections

Drawing No: MD140074-1







Pin connections:

Pin#	Symbol	I Function VCXO Control Voltage Output				
1	Vc					
2	LD	Lock Detect Output				
6	GND	Ground				
7	GND	Ground				
8	RF OUT	RF Output				
9	GND	Ground				
13	FREF	Reference Frequency Input				
14	Vs	Supply Voltage				

Specifications

OCXO	Sym	Condition	Value				NI 4		
Specification			Min.	Тур.	Max.	Unit	Note		
Reference Frequency(Input)	f_{REF}		5		100	MHz			
Output Frequency	f _{out}		80		160	MHz			
RF Output (Locked)	001								
Signal Waveform				HCMOS					
Load		+/-10%		15		pF			
Symmetry(Duty Cycle)		@ Vs/2	40		60	%			
Rise & Decay Time		<u> </u>			5	ns			
Suppression Of Channel Spurious		@ N x f _{CN} and f _{OUT} +/- N x f _{CN}	-80			dBc			
Other Non-harmonic Spurious			-100			dBc			
Supply Voltage									
Supply Voltage	Vs		3.15	3.3	3.45	V			
Current Consumption					50	mA			
Reference Input		1	•				1		
Frequency Accuracy					+/-2	ppm			
Signal Waveform			Sine or Square wave						
Input Level			0.5	•	Vs	Vp-p			
Input Impedance			10			kOhm			
Input Capacitance					10	pF			
Frequency Locking									
Frequency Locking Range			Lock on f _{REF} under worst conditions over 10 years						
VCXO Control Voltage(Vc) Output		$R_{IN} = 470\Omega$	0.15		3.00	V			
		HCMOS levels	LD = High PLL locked						
Lock Detect(LD) Output			LD = Low PLL out lock						
Loop Filter Parameters									
Natural Loop Frequency f _N						Hz			
Phase Margin Φ _R			To be optimized to application w.r.t to phase noise and setting performance			0	For more information,		
Channel Spacing f _{CH}						kHz	Please consult sale		
Lock-in Time						S			
Frequency Stability (Free Running)									
vs. Operating Temperature Range					+/-10	ppm			
vs. Supply Voltage Variation (Pushing)		Vs +/- 5%			+/-2	ppm			
vs. Load Change (Pulling)		Load +/- 10%			+/-2	ppm			
Aging Long Term Per Year		@ +40℃			+/-2	ppm			
Phase Noise									
Consult Sale									
Environmental									
Operating Temperature Range	-20°C to	+70℃							
Storage Temperature Range	-40°C to +85°C								
Packing	Tape & Reel								
Size	20.0x13.1x6.1mm max								
Weight	3g max								