

Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

Features and Benefits

Frequency range: 122.88MHz Supply voltage: 3.3V Steady current: 30mA Max Output waveform: CMOS Frequency stability vs. Overall: +/-25ppm Pulling range: +/-25ppm Phase noise@100KHz: -167dBc/Hz Operating temperature: -20°C to +70°C Size: 13.9x9.1x3.6mm

Typical Applications

Instrument Microwave Communication Test & Measurement Telecom Systems-Satellite Communication

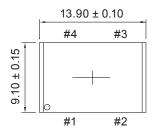
Description

VCXO914BM-122.88MHz-A-V offers low phase noise, all in a compact package to suit the different communication needs.

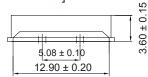
Mechanical Drawing & Pin Connections

Drawing No: MD210012-1

[TOP VIEW]





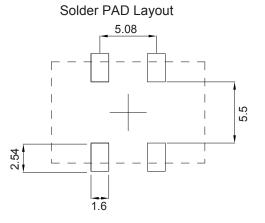


5.08 ± 0.10 #3 #4 01.00 #0 #2 #1 00 #2 #1 1.524

[BOTTOM VIEW]

Pin#	Function
1	Vcon
2	GND
3	Output
4	VDD

Unit in mm 1mm = 0.0394 inches



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Dynamic Engineers reserves the right to make changes to the company datasheet(s) along with other information contained inside; such as data tables and araphs without notification to potential customers who may have earlier revisions in their possession.



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Specifications

Oscillator			Value			11			
Specification	Sym	Condition	Min.	Тур.	Max.	Unit	Note		
Operational Frequency	F _{nom}			122.88		MHz			
RF Output									
Signal Waveform				CMO	S				
Rise/Fall time		(20%V _{DD} ~ 80%V _{DD})			3	ns			
Duty Cycle			45		55	%			
Load			1K//15pF						
Power Supply									
Supply Voltage	V_{dd}		3.135	3.3	3.465	V			
Current Consumption		At maximum voltage			30	mA			
Frequency Adjustment Range									
Absolute Pulling Range (APR)			±25			ppm			
Control voltage			0	1.65	3.3	V			
VC Input Impedance			100			Kohm			
Slope			Positive						
Linearity			10%						
Frequency Stability									
Frequency stability		Frequency stability includes frequency tolerance@25 and frequency stability vs. operating temperature range and voltage variance and 10 years aging.	-25		+25	ppm			
Modulation Bandwidth (BW)			1			KHz			
		10Hz			-75	dBc			
		100Hz			-110	dBc			
SSB Phase noise		1kHz			-137	dBc			
		10KHz			-162	dBc			
		100KHz			-167	dBc			
		1MHz			-170	dBc			
Environmental, Mechanical Conditions									
Operating temperature range	-20°C to								
Storage temperature range		-45°C to +90°C							
Vibration Test	DIN EN 60068-2-6; 10~55Hz, 0.75mm Peak; 55~200Hz, 10g Peak. 10 Cycles; 3 axis; 1Oct./min.								
Thermal Shock	DIN EN 60068-2-14; 30 min. @each temperature 10 cycles, Transfer<1min.; -40°C +/-3°C ; 85°C +/-3°C								
Mechanical Shock	DIN EN 6	0068-2-27; 6 shocks per	axis, 100g;	6ms both d	irections				