



Dynamic Engineers Inc.

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

J7LC-6A!\$SA<n!6
Š, Ā [ã ^ Ā € € T P: Ā Ō Ÿ U

Features and Benefits

- Frequency range: 100MHz
- Supply voltage: 5.0V
- Steady current: 30mA Max
- Output waveform: Sinewave
- Frequency stability vs. Overall: +/-35ppm
- Pulling range: +/-50ppm
- Phase noise@100KHz: -172dBc/Hz
- Operating temperature: -40°C to +85°C
- Size: 13.9x9.1x3.6mm

Typical Applications

- Instrument
- Microwave Communication
- Test & Measurement
- Telecom Systems-
- Satellite Communication

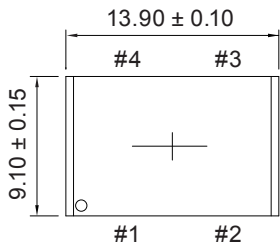
Description

VCXO914BM-100MHz-B offers low phase noise, all in a compact package to suit the different communication needs.

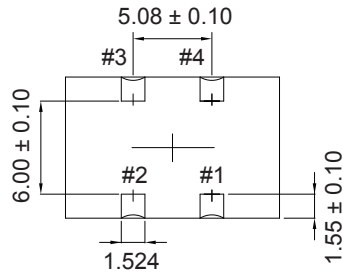
Mechanical Drawing & Pin Connections

Drawing No: MD&%\$\$&!%

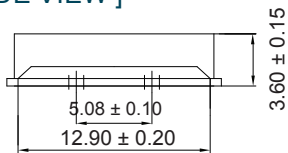
[TOP VIEW]



[BOTTOM VIEW]



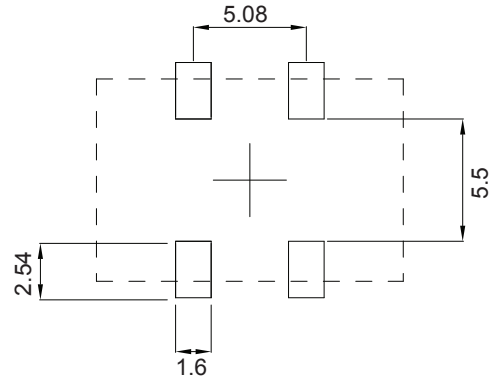
[SIDE VIEW]



Pin#	Function
1	Vcon
2	GND
3	Output
4	VDD

Unit in mm
1mm = 0.0394 inches

Solder PAD Layout





Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	F _{nom}			100		MHz	
RF Output							
Signal Waveform			Sinewave				
Level			+10			dBm	
Load				50		ohm	
Harmonics					-30	dBc	
Power Supply							
Supply Voltage	V _{dd}		4.75	5.0	5.25	V	
Current Consumption		At maximum voltage			30	mA	
Frequency Adjustment Range							
Pulling Range			±50			ppm	
Control voltage			0	2.5	5.0	V	
VC Input Impedance			100			Mohm	
Modulation bandwidth			1			KHz	
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.			±35	ppm	
SSB Phase noise		10Hz			-84	dBc	
		100Hz			-117	dBc	
		1kHz			-144	dBc	
		10KHz			-165	dBc	
		100KHz			-172	dBc	
Environmental, Mechanical Conditions							
Operating temperature range			-40°C to +85°C				
Storage temperature range			-45°C to +90°C				