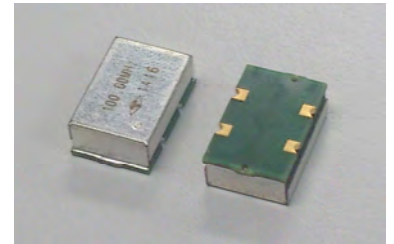


High Frequency Very Low Noise VCXO VLCU-Type series

VLCU-Type Series in 14 x 9mm SMD package

VLCU-Type series is a high frequency high performance VCXO offering high frequency and very low phase noise. The part comes in a small SMD package which makes it suitable for reflow soldering during pick and place assembly.



FEATURES

- **Low Phase Noise**
- Small SMD Package
- Low Power Consumption

APPLICATIONS

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

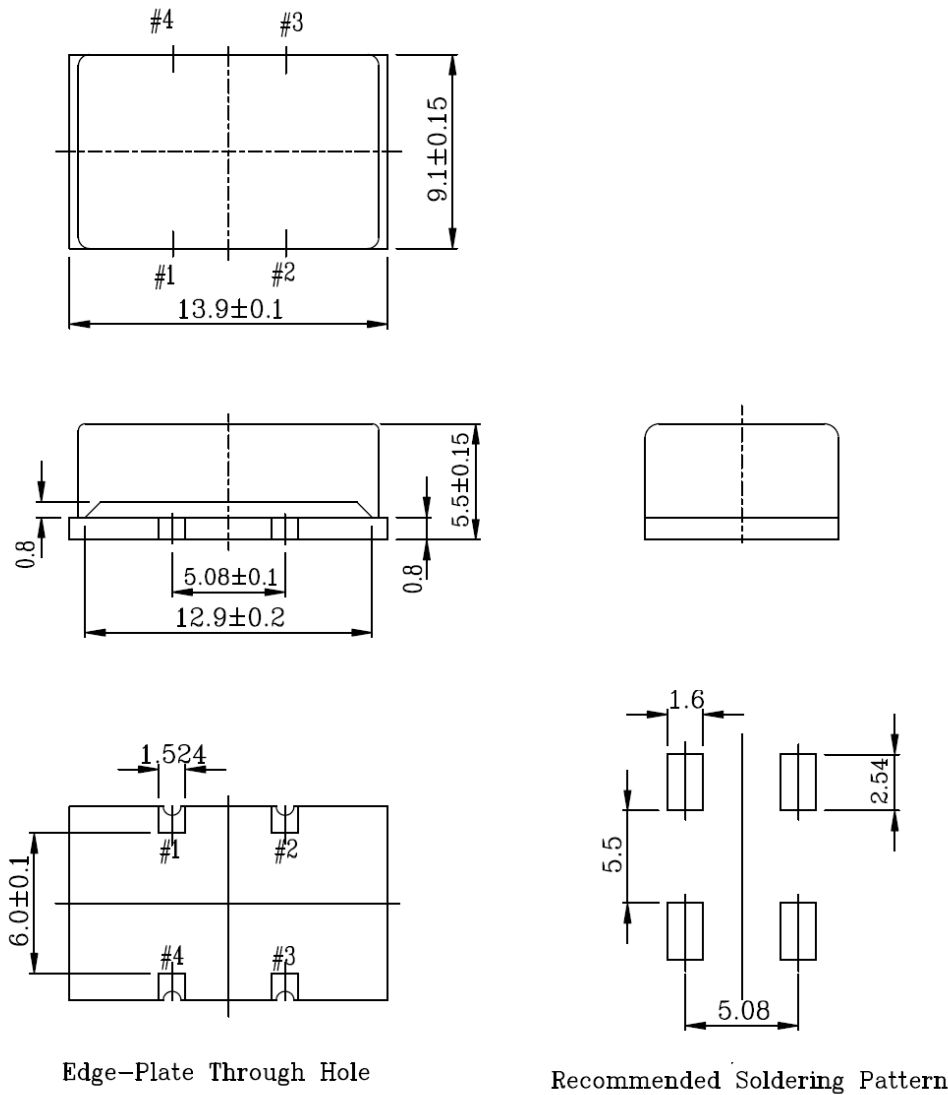
RoHS Compliant Standard

ELECTRICAL SPECIFICATIONS

1. OUTPUT (PIN = "R.F. OUTPUT")

	Parameter	Min.	Typ.	Max.	Unit	Test Condition
1.1.	Frequency (Fo)	50		125	MHz	Standard Frequency : 100MHz, 122.88MHz, 125MHz
1.2.	Frequency Stability (Overall)	-35		+35	ppm	Frequency stability includes frequency tolerance@25°C and frequency stability vs. operating temperature range and voltage variance and 15 years aging.
1.3.	Operating Temperature Range	-20°C ~ +70°C -40°C ~ +85°C			°C	
1.4.	Storage Temperature Range	-45°C ~ +90°C			°C	
1.5.	Waveform	Sine wave				
1.6.	Level	+8			dBm	
1.7.	Load		50		Ω	
1.8.	Harmonics			-22	dBc	
1.1.	Phase Noise (Max.) (Fo =100MHz)	Option A	Option B	Option C		
1.2.		-84	-87	-90	dBc/Hz	@ 10Hz
1.3.		-117	-120	-123	dBc/Hz	@ 100Hz
1.4.		-143	-144	-145	dBc/Hz	@ 1KHz
1.5.		-165	-165	-165	dBc/Hz	@ 10KHz
1.6.		-170	-170	-170	dBc/Hz	@ 100KHz
1.7.		-172	-172	-172	dBc/Hz	@ 1MHz

OUTLINE DRAWING



Edge-Plate Through Hole

Recommended Soldering Pattern

Pin FUNCTIONS

Pin	Function
#1	Vcon
#2	GND
#3	Output
#4	VDD

PRODUCT IDENTIFICATION (MARKING)

