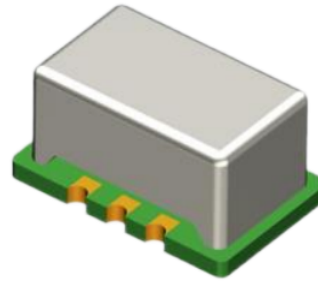




### Features and Benefits

- Frequency range: 1-200MHz
- Output: Sinewave
- Supply voltage: 5V/3.3V
- Current: 70mA Max.
- Frequency stability vs. temperature: ±10PPM
- Operating temperature: -40°C to +85°C
- Size: 14.3x8.7x5.5mm
- Package type: SMD

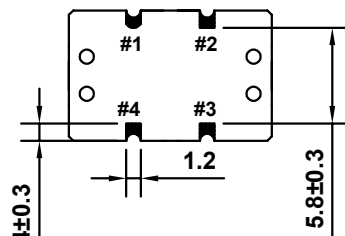
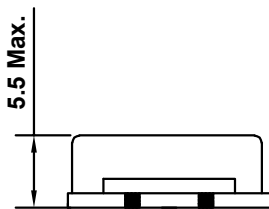
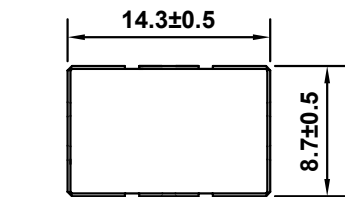


### Typical Applications

- Bluetooth wireless communication sets
- DSN, PDA and Mobile Phone

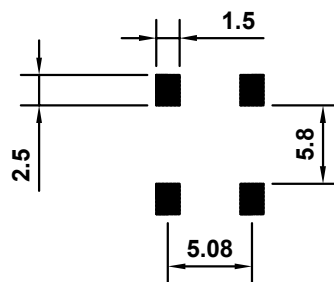
### Mechanical Drawing & Pin Connections

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



Unit in mm  
1mm = 0.0394 inches

#### Recommended Solder Pattern



#### Pin Connections:

- #1. N.C. or E/D
- #2. GND
- #3. OUTPUT
- #4. Vcc



**Specifications**

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	f <sub>o</sub>	All combination of Frequency range Vs. Package type can not be available, please contact DEI	1		200	MHz	
<b>RF Output</b>							
Output Waveform			Sinewave				
Output Level		3.3V	0			dBm	
		5V		+5		dBm	
Load				50		ohm	
<b>Power Supply</b>							
Voltage	V <sub>cc</sub>	±5%		5/3.3		V	See ordering information
Supply Current	V <sub>cc</sub> =3.3V	≤ 25MHz			15	mA	See ordering information
		≤ 50MHz			25	mA	
		≤ 80MHz			35	mA	
		≤ 125MHz			40	mA	
		≤ 200MHz			45	mA	
	V <sub>cc</sub> =5V	≤ 25MHz			20	mA	
		≤ 50MHz			30	mA	
		≤ 80MHz			50	mA	
		≤ 125MHz			60	mA	
		≤ 200MHz			70	mA	
<b>Frequency Stability</b>							
Versus Temperature			±10			ppm	See ordering information
Aging per year					±3	ppm	
Phase Noise @50MHz Frequency		10Hz		-96		dBc/Hz	
		100Hz		-135			
		1KHz		-155			
		10KHz		-165			
		100KHz		-168			
		1MHz		-170			
<b>Environmental Conditions</b>							
Operating temperature range	-40°C to +85°C (See ordering information)						
Storage temperature range	-55°C to +105°C						
Shock	MIL-STD-883C, Method 2002, Condition B						
Vibration	MIL-STD-883C, Method 2007, Condition A						
Solderability	MIL-STD-883C, Method 2003						
Seal integrity	MIL-STD-883C, Method 1014, Condition C & A2						
Marking	MIL-STD-202F, Method 215						



### Ordering Information

XO1490BE-LN	-	xMHz-	01	02	03
Group			Code		

For example, XO1490BE-LN -100MHz-161 denotes the VCXO has the following specifications:

Frequency: 100MHz  
 Temperature Range: 0°C to +50°C  
 Stability Over Temperature: ±100 ppm  
 Supply Voltage: 5V

01	Temperature Range
Code	Specification
1	0°C to +50°C
2	-10°C to +60°C
3	-20°C to +70°C
4	-30°C to +75°C
5	-40°C to +80°C
6	-40°C to +85°C

02	Frequency Stability
Code	Specification
1	±10 ppm
2	±15 ppm
3	±20 ppm
4	±30 ppm
5	±50 ppm
6	±100 ppm

03	Supply Voltage
Code	Specification
1	5 V
2	3.3 V