



Features and Benefits

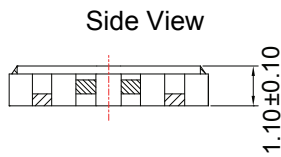
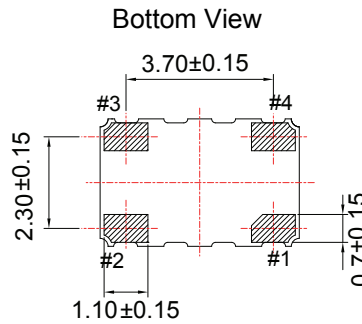
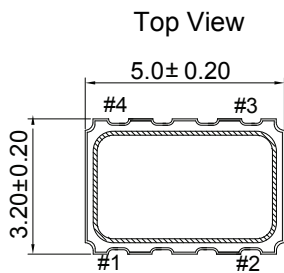
- Frequency range: 14.85MHz
- Supply voltage: 3.3V
- Steady current: 1.5mA Max
- Output waveform: Clipped sinewave
- Frequency stability vs. operating temperature: ±2.5ppm
- Phase noise@10KHz: -148dBc/Hz
- Operating temperature: -20°C--+70°C
- Size: 5x3.2x1.1mm

Typical Applications

- WLAN
- Telecommunication
- Mobile Application

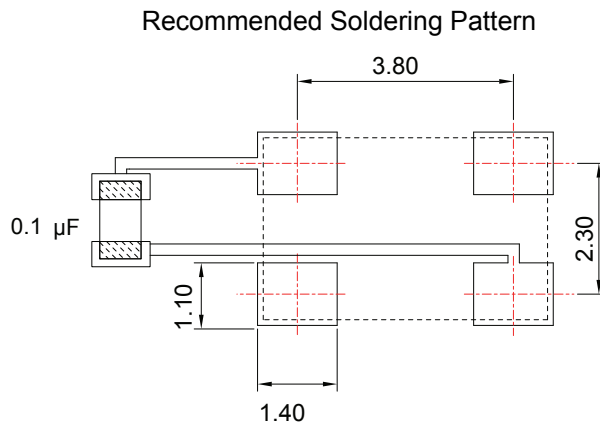
Mechanical Drawing & Pin Connections

Drawing No: MD220020-1



Pin#	Function
1	Vcon
2	GND
3	Output
4	Vcc

Unit in mm
1mm = 0.0394 inches



To ensure optimal oscillator performance, place a by-pass capacitor of 0.1uF as close to the part as possible between Vcc and GND PAD



Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	f ₀			14.85		MHz	
RF Output							
Output Waveform			Clipped sinewave				
Output Level			0.8			Vp-p	
Output Load			10Kohm//10pF				
Power Supply							
Voltage	V _{cc}	±5%		5.0		V	
Current					1.5	mA	
Startup Time					2.0	mSec	
Frequency Control							
Control Voltage Range			0.5		2.5	V	
Pulling Range			±5.0			ppm	
Vc Input Impedance			500			kohm	
Frequency Stability							
Vs. Temperature		-20°C to +70°C			±2.5	ppm	
Vs. Supply Voltage		±5%			±0.2	ppm	
Vs. Load		±10%			±0.2	ppm	
Vs. Aging		1 st year			±1.0	ppm	
Tolerance					±2.0	ppm	
Phase noise		@ 100Hz		-115		dBc/Hz	
		@ 1KHz		-135		dBc/Hz	
		@ 10KHz		-148		dBc/Hz	
Environmental Conditions							
Operating temperature range		-40°C to +85°C					