

## 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: 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**





Pin#	Function				
1	Vcon				
2	GND				
3	Output				
4	Vcc				
Init in mm	1				

1mm = 0.0394 inches



Drawing No:

MD220020-1

**Recommended Soldering Pattern** 



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

Dynamic Engineers, Inc.

Rev. 1

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.



# Dynamic Engineers Inc.

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

## **Specifications**

Oscillator	Sum	Condition	Value			Unit	Note		
Specification	Sym		Min.	Тур.	Max.				
Operational Frequency	fo			14.85		MHz			
RF Output									
Output Waveform			Clipped sinewave						
Output Level			0.8			Vp-p			
Output Load			10Kohm//10pF						
Power Supply									
Voltage	Vcc	±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 <sup>st</sup> 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 ran	ige	-40°C to +85°C							