

## Dynamic Engineers Inc.

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

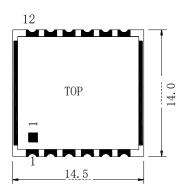
## **Features and Benefits**

Frequency Range:1620-1660MHz Supply Voltage:5.0V Current: 30mA Max. 3 wire serial integer PLL Output power: +4.0dBm Max. Phase noise: -98dBc/Hz@10KHz Operating temperature: -40°C--+85°C Size:14.5x14x3.2mm

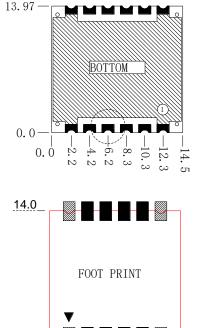
## **Typical Applications**

Base station Cable TV Satellite Communications UHF radio link

## **Mechanical Drawing & Pin Connections**







0.0-

0.0

Drawing No: MD240061-1

#### Pin Connections:

Pin	Function			
1	GND			
2	CLK			
3	Vcc(VCO)			
4	Lock Detect			
5	RF Out			
6&7	GND			
8	Ref. IN			
9	Vcp(PLL)			
10	DATA			
11	LE			
12	GND			

Unit in mm 1mm = 0.0394 inches

### Dynamic Engineers, Inc.

Rev. 1

 $\begin{array}{c} 14.5\\ 12.3\\ 10.3\\ 8.3\\ 6.2\\ 4.2\\ 2.2\end{array}$ 

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**

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	1620		1660
Output Power		dBm	0	+2.0	+4.0
Step Size		KHz		480	
Settling Time		msec		10	30
Output Impedance		Ω		50	
Phase Noise	@1kHz offset	dBc / Hz		-80	-70
Phase Noise	@10kHz offset	dBc / Hz		-98	-93
Phase Noise	@100kHz offset	dBc / Hz		-121	-116
Phase Noise	@1MHz offset	dBc / Hz		-140	-135
2nd Harmonic Suppression		dBc		-23	-15
Sideband Spurious Suppression		dBc			-85
Reference (input frequency)		MHz	5		100
Reference (input level)		dBm	-5		+5
VCO Power Supply (Vcc) Voltage		Vdc		5	
VCO Power Supply (Vcc) Current		mA		22	30
PLL Power Supply (Vcp) Voltage		Vdc		5	
PLL Power Supply (Vcp) Current		mA		5	10
Operating Temperature Range		°C	-40		+85

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.