

## Dynamic Engineers Inc.

Website: <u>www.DynamicEngineers.com</u> Email: <u>Inquiry@DynamicEngineers.com</u>

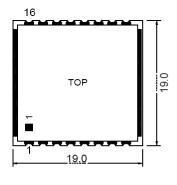
## **Features and Benefits**

Frequency Range: 1890.25MHz Supply Voltage: 5.0V Current: 30mA Max. 3 wire serial Fractional PLL Output power: +7.0dBm Max. Phase noise: -111dBc/Hz@10KHz Operating temperature: -40°C--+85°C Size: 19.0x19.0x6mm Package type: SMD

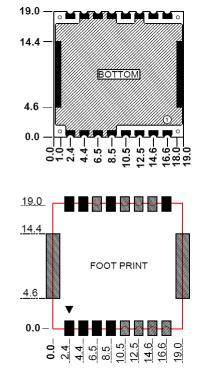
## **Typical Applications**

SATCOM radio link Point-to-Point radio Receiver MMDS Test Equipment WiMAX Radar

## **Mechanical Drawing & Pin Connections**







PLL1919BQ-LN1-1890.25MHz-A 1890.25MHz SMD Phase Locked Loop (PLL) Synthesizer

#### Drawing No:

MD240074-1

#### Pin Connections:

Pin	Function			
1	CLK			
2	DATA			
3	LE			
4	Ref. IN			
5-8	GND			
9	VCC(VCO)			
10-12	GND			
13	RF Out			
14	GND			
15	Vcp(PLL)			
16	Lock Detect			
17&18	GND			

Unit in mm 1mm = 0.0394 inches

Dynamic Engineers reserves the right to make changes to the company datasheet(s) along with other information contained inside; such as data tables and graphs without notification to potential customers who may have earlier revisions in their possession.



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## **Specifications**

Para	meter	Units	Min.	Typical	Max.
Operating Frequency Range		MHz		1890.25	
Output Power		dBm	+3.0	+5.0	+7.0
Step Size		KHz		50	
Settling Time		msec		10	30
Output Impedance		Ω		50	
Phase Noise	@1kHz offset	dBc / Hz		-79	-74
Phase Noise	@10kHz offset	dBc / Hz		-111	-106
Phase Noise	@100kHz offset	dBc / Hz		-133	-128
Phase Noise	@1MHz offset	dBc / Hz		-152	-147
2nd Harmonic Suppression		dBc		-28	-20
Sideband Spurious Suppression		dBc			-55
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		20	30
PLL Power Supply (Vcp) Voltage		Vdc		5	
PLL Power Supply (Vcp) Current		mA		5	10
Operating Temperature Range		°C	-40		+85