

## Dynamic Engineers Inc.

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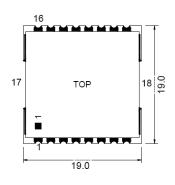
#### **Features and Benefits**

Frequency Range: 2464-2540MHz Supply Voltage: 5.0V Current: 40mA Max. 3 wire serial Fractional PLL Output power: +2.0dBm Max. Phase noise: -91dBc/Hz@10KHz Operating temperature: -40°C--+85°C Size: 19.0x19.0x5.8mm Package type: SMD

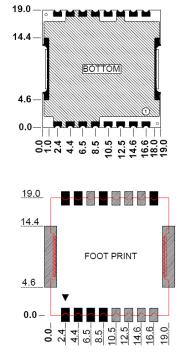
#### **Typical Applications**

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

### **Mechanical Drawing & Pin Connections**







PLL1919BQ-FS-2464MHz-2540MHz-A 2464-2540MHz SMD Phase Locked Loop (PLL) Synthesizer

#### Drawing No:

MD240072-1

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

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### **Specifications**

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	2464		2540
Output Power		dBm	-2.0	0.0	+2.0
Step Size		KHz		250	
Settling Time		msec		30	
Output Impedance		Ω		50	
Phase Noise	@1kHz offset	dBc / Hz		-88	-83
Phase Noise	@10kHz offset	dBc / Hz		-91	-86
Phase Noise	@100kHz offset	dBc / Hz		-117	-112
Phase Noise	@1MHz offset	dBc / Hz		-137	-132
2nd Harmonic Suppression		dBc		-37	-20
Sideband Spurious Suppression		dBc			-75
Reference (input frequency)		MHz	10		250
Reference (input level)		dBm	-5		+5
VCO Power Supply (Vcc) Voltage		Vdc		5.0	
VCO Power Supply (Vcc) Current		mA		34	40
PLL Power Supply (Vcp) Voltage		Vdc		5.0	
PLL Power Supply (Vcp) Current		mA		10	15
Operating Temperature Range		С°	-40		+85