

Dynamic Engineers Inc.

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

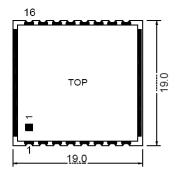
Features and Benefits

Frequency Range: 2179.5-2206.5MHz Supply Voltage: 5.0V Current: 35mA Max. 3 wire serial Fractional PLL Output power: +4.0dBm Max. Phase noise: -111dBc/Hz@10KHz Operating temperature: -40°C--+85°C Size: 19.0x19.0x6mm Package type: SMD

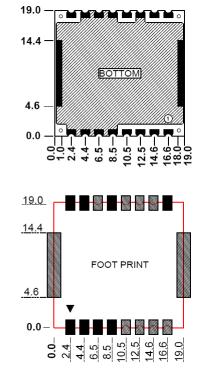
Typical Applications

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

Mechanical Drawing & Pin Connections







PLL1919BQ-LN1-2179.5MHz-2206.5MHz-A 2179.5-2206.5MHz 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

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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

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	2179.50		2206.50
Output Power		dBm	0.0	+2.0	+4.0
Step Size		KHz		125	
Settling Time		msec		10	30
Output Impedance		Ω		50	
Phase Noise	@1kHz offset	dBc / Hz		-82	-77
Phase Noise	@10kHz offset	dBc / Hz		-111	-106
Phase Noise	@100kHz offset	dBc / Hz		-132	-127
Phase Noise	@1MHz offset	dBc / Hz		-153	-148
2nd Harmonic Suppression		dBc		-27	-20
Sideband Spurious Suppression		dBc			-75
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		27	35
PLL Power Supply (Vcp) Voltage		Vdc		5	
PLL Power Supply (Vcp) Current		mA		5	10
Operating Temperature Range		°C	-40		+85