

Dynamic Engineers Inc.

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

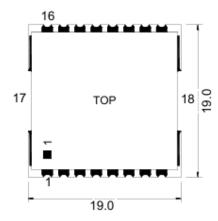
Features and Benefits

Frequency Range: 2110-2140MHz Supply Voltage: 5.0V Current: 30mA Max. 3 wire serial integer PLL Output power: +2.0dBm Max. Phase noise: -100dBc/Hz@10KHz Operating temperature: -40°C--+85°C Size: 19.0x19.0x5.8mm Package type: SMD

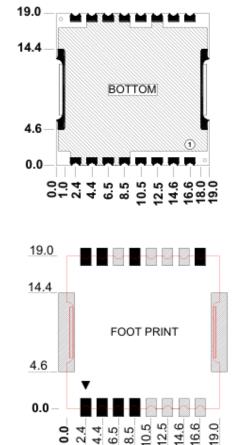
Typical Applications

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

Mechanical Drawing & Pin Connections







PLL1919BQ-SS-2110MHz-2140MHz-A 2110-2140MHz 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 RF Out 13 14 GND Vcp(PLL) 15 16 Lock Detect 17&18 GND

Unit in mm 1mm = 0.0394 inches

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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.



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Specifications

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	2110		2140
Output Power		dBm	-2.0	0.0	+2.0
Step Size		KHz		125	
Settling Time		msec		10	30
Output Impedance		Ω		50	
Phase Noise	@1kHz offset	dBc / Hz		-68	-63
Phase Noise	@10kHz offset	dBc / Hz		-100	-95
Phase Noise	@100kHz offset	dBc / Hz		-123	-118
Phase Noise	@1MHz offset	dBc / Hz		-143	-138
2nd Harmonic Suppression		dBc		-41	-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		21	30
PLL Power Supply (Vcp) Voltage		Vdc		5	
PLL Power Supply (Vcp) Current		mA		5	10
Operating Temperature Range		С°	-40		+85

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