

Dynamic Engineers Inc.

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

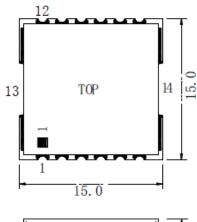
Features and Benefits

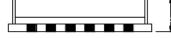
Frequency Range: 925-955MHz Supply Voltage: 5.0V Current: 35mA Max. 3 wire serial integer PLL Output power: +8.0dBm Max. Phase noise: -107dBc/Hz@10KHz Operating temperature: -40°C--+85°C Size: 15x15x3.7mm Package type: SMD

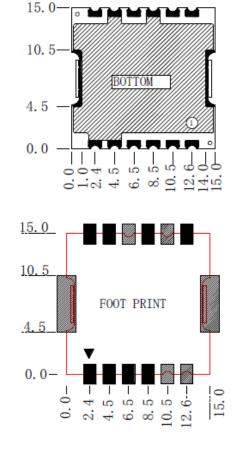
Typical Applications

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

Mechanical Drawing & Pin Connections







PLL1515BQ-IT-925MHz-955MHz-A 925-955MHz SMD Phase Locked Loop (PLL) Synthesizer

Drawing No:

MD240065-2

Pin Connections:

Pin	Function				
1	CLK				
2	DATA				
3	LE				
4- 6	GND				
7	VCC(VCO)				
8	GND				
9	RF Out				
10	GND				
11	Lock Detect				
12	Vcp(PLL)				
13&14	GND				
Linit in more					

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	925		955
Output Power		dBm	+4.0	+6.0	+8.0
Step Size		KHz		50	
Settling Time		msec		10	30
Output Impedance		Ω		50	
Phase Noise	@1kHz offset	dBc / Hz		-75	-70
Phase Noise	@10kHz offset	dBc / Hz		-107	-102
Phase Noise	@100kHz offset	dBc / Hz		-129	-124
Phase Noise	@1MHz offset	dBc / Hz		-148	-143
2nd Harmonic Suppression		dBc		-31	-20
Sideband Spurious Suppression		dBc			-75
Reference (frequency)		MHz		13	
Reference (Freq. Stability)		ppm			2.5
VCO Power Supply (Vcc) Voltage		Vdc		5	
VCO Power Supply (Vcc) Current		mA		25	35
PLL Power Supply (Vcp) Voltage		Vdc		5	
PLL Power Supply (Vcp) Current		mA		5	10
Operating Temperature Range		°C	-40		+85

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