

Dynamic Engineers Inc.

Website: www.DynamicEngineers.com Email: Inquiry@DynamicEngineers.com

PLL1515BQ-IT-825MHz-835MHz-A 825-835MHz SMD Phase Locked Loop (PLL) Synthesizer

Features and Benefits

Frequency Range: 825-835MHz

Supply Voltage: 5.0V Current: 35mA Max. 3 wire serial integer PLL Output power: +8.0dBm Max. Phase noise: -109dBc/Hz@10KHz Operating temperature: -40°C--+85°C

Size: 15x15x3.7mm Package type: SMD

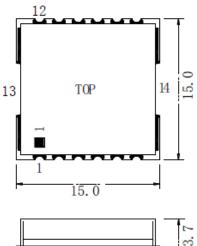
Typical Applications

Base station Cable TV Satellite Communications UHF radio link

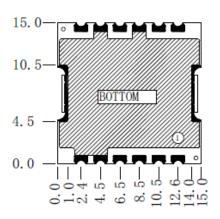
Mechanical Drawing & Pin Connections

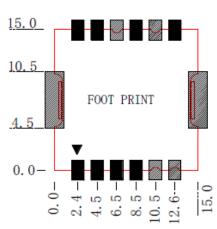
Drawing No:

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				

Unit in mm

1mm = 0.0394 inches



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Specifications

Parameter Parame		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	825		835
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		-78	-73
Phase Noise	@10kHz offset	dBc / Hz		-109	-104
Phase Noise	@100kHz offset	dBc / Hz		-131	-126
Phase Noise	@1MHz offset	dBc / Hz		-151	-146
2nd Harmonic Suppression		dBc		-25	-20
Sideband Spurious Suppression		dBc			-80
Reference (frequency)		MHz		13	
Reference (Freq. Stability)		ppm			2.5
VCO Power Supply (Vcc) Voltage		Vdc		5	
VCO Power Supply (Vcc) Current		mA		24	35
PLL Power Supply (Vcp) Voltage		Vdc		5	
PLL Power Supply (Vcp) Current		mA		5	10
Operating Temperature Range		°C	-40		+85