

Dynamic Engineers Inc.

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

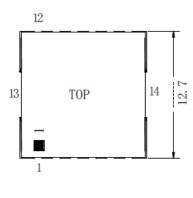
Features and Benefits

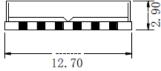
Frequency Range: 2060-2080MHz Supply Voltage: 5.0V Current: 40mA Max. 3 wire serial integer PLL Output power: +11.0dBm Max. Phase noise: -99dBc/Hz@10KHz Operating temperature: -40°C--+85°C Size: 12.7x12.7x2.9mm Package type: SMD

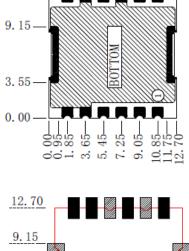
Typical Applications

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

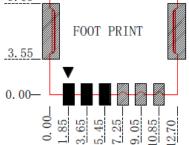
Mechanical Drawing & Pin Connections







12.70-



PLL1212BQ-IT-2060MHz-2080MHz-A 2060-2080MHz SMD Phase Locked Loop (PLL) Synthesizer

Drawing No:

MD240075-1

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

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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PLL1212BQ-IT-2060MHz-2080MHz-A 2060-2080MHz SMD Phase Locked Loop (PLL) Synthesizer

Specifications

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	2060		2080
Output Power		dBm	+7.0	+9.0	+11.0
Step Size		KHz		50	
Settling Time		msec		10	30
Output Impedance		Ω		50	
Phase Noise	@1kHz offset	dBc / Hz		-72	-67
Phase Noise	@10kHz offset	dBc / Hz		-99	-94
Phase Noise	@100kHz offset	dBc / Hz		-121	-116
Phase Noise	@1MHz offset	dBc / Hz		-141	-136
2nd Harmonic Suppression		dBc		-38	-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		32	40
PLL Power Supply (Vcp) Voltage		Vdc		5	
PLL Power Supply (Vcp) Current		mA		5	10
Operating Temperature Range		°C	-40		+85