



Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA
TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

PLL9893BQ-SS-1065MHz-1100MHz-A

1065-1100MHz SMD PLL Synthesizer

Features and Benefits

Frequency Range:1065-1100MHz

Supply Voltage:5.0V

Current: 40mA Max.

3 wire serial integer PLL

Output power: +9.0dBm Max.

Phase noise: -103dBc/Hz@10KHz

Operating temperature: -40°C--+85°C

Size:9.8x9.3x2.3mm

Typical Applications

Base station

Cable TV

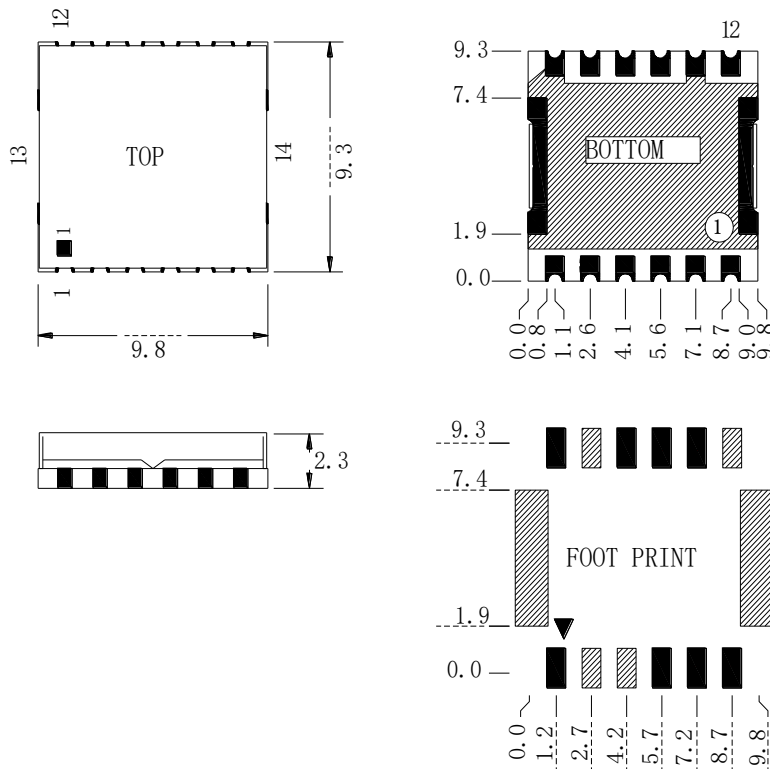
Satellite Communications

UHF radio link

Mechanical Drawing & Pin Connections

Drawing No:

MD240060-1



Pin Connections:

Pin	Function
1	Lock Detect
2&3	N.C.
4	Vcc(VCO)
5	Vcp(PLL)
6	RF Out
7	GND
8	LE
9	DATA
10	CLK
11	GND
12	Ref. In
13&14	GND

Unit in mm

1mm = 0.0394 inches



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Specifications

Parameter	Units	Min.	Typical	Max.
Operating Frequency Range	MHz	1065		1100
Output Power	dBm	+5.0	+7.0	+9.0
Step Size	KHz		50	
Settling Time	msec		10	30
Output Impedance	Ω		50	
Phase Noise @1kHz offset	dBc / Hz		-76	-71
Phase Noise @10kHz offset	dBc / Hz		-103	-98
Phase Noise @100kHz offset	dBc / Hz		-123	-118
Phase Noise @1MHz offset	dBc / Hz		-144	-139
2nd Harmonic Suppression	dBc		-19	-15
Sideband Spurious Suppression	dBc			-80
Reference (input frequency)	MHz	5		40
Reference (input level)	dBm	-5		+5
VCO Power Supply (Vcc) Voltage	Vdc		5	
VCO Power Supply (Vcc) Current	mA		31	40
PLL Power Supply (Vcp) Voltage	Vdc		5	
PLL Power Supply (Vcp) Current	mA		5	10
Operating Temperature Range	°C	-40		+85