



Dynamic Engineers Inc.

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

D@@ , - ' 6 E !GG!% , \$A <n!%+\$\$A <n!5
1680-1700MHz SMD PLL Synthesizer

Features and Benefits

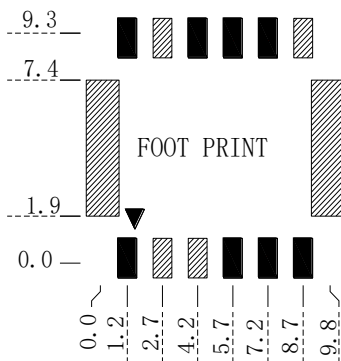
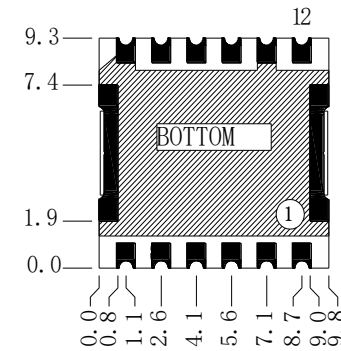
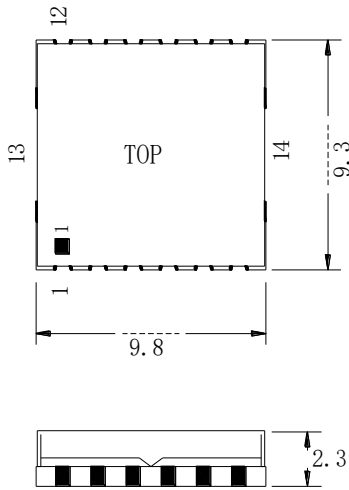
- Frequency Range:1680-1700MHz
- Supply Voltage:5.0V
- Current: 45mA Max.
- 3 wire serial integer PLL
- Output power: +11.0dBm Max.
- Phase noise: -104dBc/Hz@10KHz
- Operating temperature: -40°C--+85°C
- Size:9.8x9.3x2.3mm

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



Dynamic Engineers Inc.

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

D@@ , - ' 6 E !GG!% , \$A <n!%+\$\$A <n!5
1680-1700MHz SMD PLL Synthesizer

Specifications

Parameter	Units	Min.	Typical	Max.
Operating Frequency Range	MHz	1680		1700
Output Power	dBm	+7.0	+9.0	+11.0
Step Size	KHz		25	
Settling Time	msec		10	30
Output Impedance	Ω		50	
Phase Noise @1kHz offset	dBc / Hz		-74	-69
Phase Noise @10kHz offset	dBc / Hz		-104	-99
Phase Noise @100kHz offset	dBc / Hz		-125	-120
Phase Noise @1MHz offset	dBc / Hz		-145	-140
2nd Harmonic Suppression	dBc		-53	-20
Sideband Spurious Suppression	dBc			-75
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		34	45
PLL Power Supply (Vcp) Voltage	Vdc		5	
PLL Power Supply (Vcp) Current	mA		5	10
Operating Temperature Range	$^{\circ}\text{C}$	-40		+85