



Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA
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PLL1414BQ-SS-319MHz-353MHz-A

319-353MHz SMD PLL Synthesizer

Features and Benefits

Frequency Range: 319-353MHz

Supply Voltage: 5.0V

Current: 25mA Max.

3 wire serial integer PLL

Output power: +4.0dBm Max.

Phase noise: -109dBc/Hz@10KHz

Operating temperature: -40°C--+85°C

Size: 14.5x14x3.2mm

Typical Applications

Base station

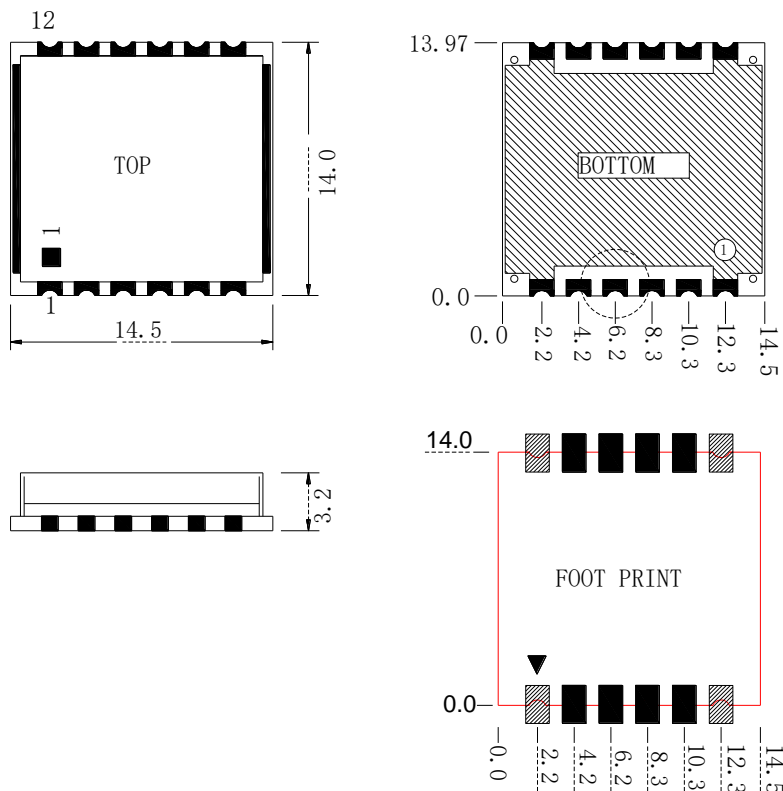
Cable TV

Satellite Communications

UHF radio link

Mechanical Drawing & Pin Connections

Drawing No: MD240061-1



Pin Connections:

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

Unit in mm

1mm = 0.0394 inches



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Specifications

Parameter	Units	Min.	Typical	Max.
Operating Frequency Range	MHz	319		353
Output Power	dBm	0	+2.0	+4.0
Step Size	KHz		25	
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		-130	-125
Phase Noise @1MHz offset	dBc / Hz		-150	-145
2nd Harmonic Suppression	dBc		-22	-15
Sideband Spurious Suppression	dBc			-75
Reference (input frequency)	MHz	5		100
Reference (input level)	dBm	-5		+5
VCO Power Supply (Vcc) Voltage	Vdc		5	
VCO Power Supply (Vcc) Current	mA		18	25
PLL Power Supply (Vcp) Voltage	Vdc		5	
PLL Power Supply (Vcp) Current	mA		5	10
Operating Temperature Range	$^{\circ}\text{C}$	-40		+85