



Features and Benefits

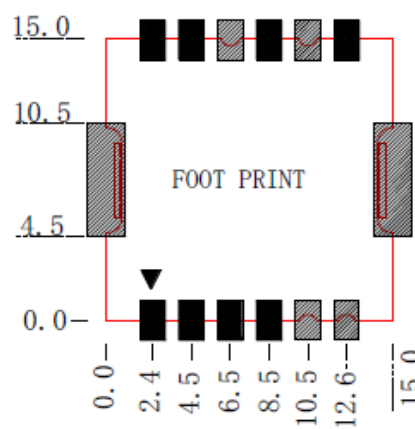
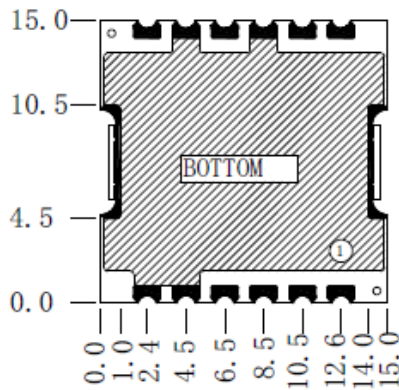
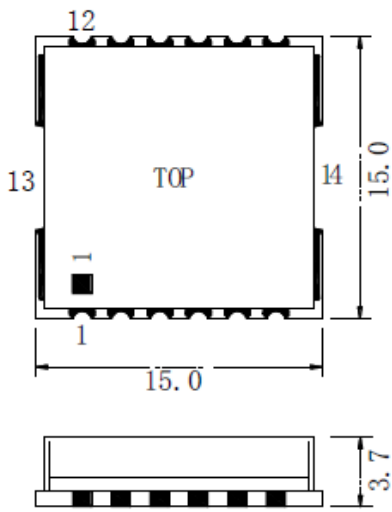
- Frequency Range: 139-141MHz
- Supply Voltage: 5.0V
- Current: 30mA Max.
- 3 wire serial integer PLL
- Output power: +7.0dBm Max.
- Phase noise: -118dBc/Hz@10KHz
- Operating temperature: -40°C--+85°C
- Size: 15x15x3.7mm
- Package type: SMD

Typical Applications

- Broadcast
- VHF radio
- Wireless Telemetry
- Test Instrument-Signal Generation

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



Specifications

Parameter	Units	Min.	Typical	Max.
Operating Frequency Range	MHz	139		141
Output Power	dBm	+3.0	+5.0	+7.0
Step Size	KHz		10	
Settling Time	msec		10	30
Output Impedance	Ω		50	
Phase Noise @1kHz offset	dBc / Hz		-90	-85
Phase Noise @10kHz offset	dBc / Hz		-118	-113
Phase Noise @100kHz offset	dBc / Hz		-140	-135
Phase Noise @1MHz offset	dBc / Hz		-159	-154
2nd Harmonic Suppression	dBc		-22	-15
Sideband Spurious Suppression	dBc			-70
Reference (frequency)	MHz		13	
Reference (Freq. Stability)	ppm			2.5
VCO Power Supply (Vcc) Voltage	Vdc		5	
VCO Power Supply (Vcc) Current	mA		20	30
PLL Power Supply (Vcp) Voltage	Vdc		5	
PLL Power Supply (Vcp) Current	mA		5	10
Operating Temperature Range	$^{\circ}\text{C}$	-40		+85