



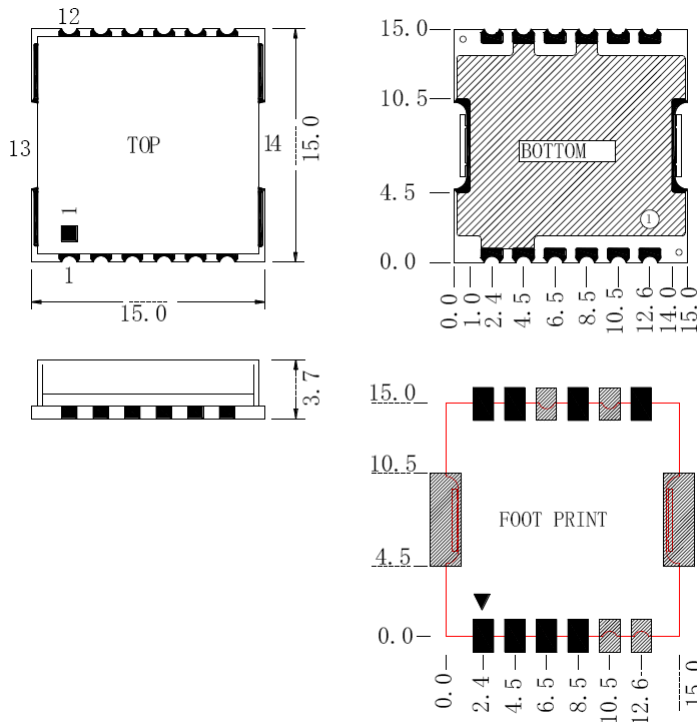
### Features and Benefits

Frequency Range: 2296-2490MHz  
Supply Voltage: 5.0V  
Current: 40mA Max.  
3 wire serial Fractional PLL  
Output power: +2.0dBm Max.  
Phase noise: -92dBc/Hz@10KHz  
Operating temperature: -40°C--+85°C  
Size: 15.0x15.0x3.7mm  
Package type: SMD

### Typical Applications

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

### Mechanical Drawing & Pin Connections



Drawing No: MD240065-1

Pin Connections:

Pin	Function
1	CLK
2	DATA
3	LE
4	Ref. IN
5&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	2296		2490
Output Power	dBm	-2.0	0.0	+2.0
Step Size	KHz		125	
Settling Time	msec		10	30
Output Impedance	$\Omega$		50	
Phase Noise @1kHz offset	dBc / Hz		-88	-83
Phase Noise @10kHz offset	dBc / Hz		-92	-87
Phase Noise @100kHz offset	dBc / Hz		-114	-109
Phase Noise @1MHz offset	dBc / Hz		-135	-130
2nd Harmonic Suppression	dBc		-33	-20
Sideband Spurious Suppression	dBc			-60
Reference (input frequency)	MHz	10		250
Reference (input level)	dBm	-5		+5
VCO Power Supply (Vcc) Voltage	Vdc		5	
VCO Power Supply (Vcc) Current	mA		30	40
PLL Power Supply (Vcp) Voltage	Vdc		5	
PLL Power Supply (Vcp) Current	mA		10	15
Operating Temperature Range	$^{\circ}\text{C}$	-40		+85