



### Features and Benefits

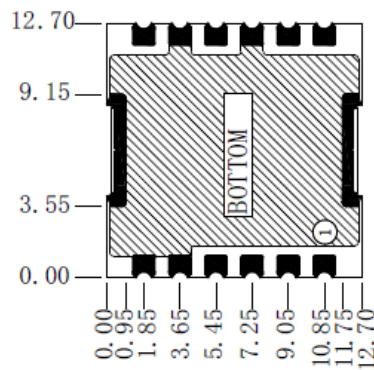
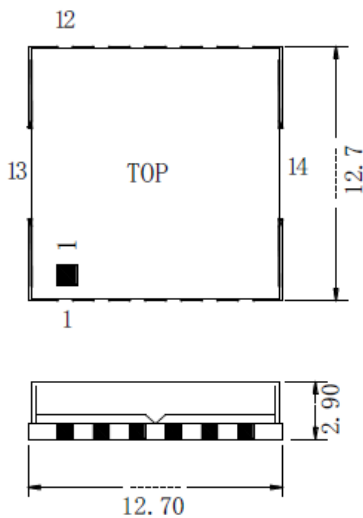
Frequency Range: 1935-2050MHz  
Supply Voltage: 5.0V  
Current: 40mA Max.  
3 wire serial integer PLL  
Output power: +8.0dBm Max.  
Phase noise: -96dBc/Hz@10KHz  
Operating temperature: -40°C--+85°C  
Size: 12.7x12.7x2.9mm  
Package type: SMD

### Typical Applications

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

### Mechanical Drawing & Pin Connections

Drawing No: MD240075-1

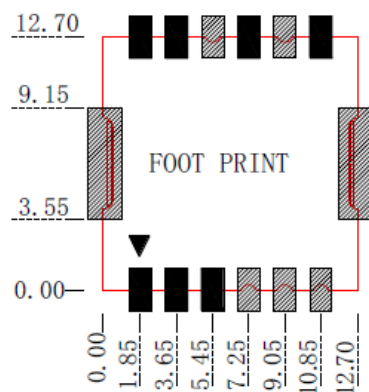


Pin Connections:

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	1935		2050
Output Power	dBm	+4.0	+6.0	+8.0
Step Size	KHz		100	
Settling Time	msec		10	30
Output Impedance	$\Omega$		50	
Phase Noise @1kHz offset	dBc / Hz		-73	-68
Phase Noise @10kHz offset	dBc / Hz		-96	-91
Phase Noise @100kHz offset	dBc / Hz		-120	-115
Phase Noise @1MHz offset	dBc / Hz		-140	-135
2nd Harmonic Suppression	dBc		-32	-20
Sideband Spurious Suppression	dBc			-75
Reference (frequency)	MHz		13	
Reference (Freq. Stability)	ppm			2.5
VCO Power Supply (Vcc) Voltage	Vdc		5	
VCO Power Supply (Vcc) Current	mA		32	40
PLL Power Supply (Vcp) Voltage	Vdc		5	
PLL Power Supply (Vcp) Current	mA		5	10
Operating Temperature Range	$^{\circ}\text{C}$	-40		+85