



### Features and Benefits

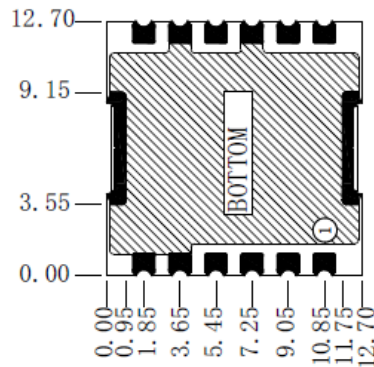
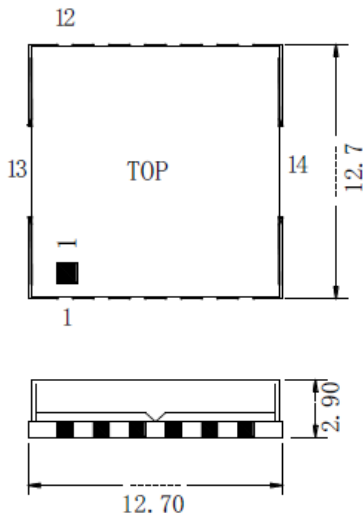
Frequency Range: 941.5-961.5MHz  
Supply Voltage: 5.0V  
Current: 30mA Max.  
3 wire serial integer PLL  
Output power: +7.0dBm Max.  
Phase noise: -105dBc/Hz@10KHz  
Operating temperature: -40°C--+85°C  
Size: 12.7x12.7x2.9mm  
Package type: SMD

### Typical Applications

Base station  
Cable TV  
Satellite Communications  
UHF radio link

### Mechanical Drawing & Pin Connections

Drawing No: MD240075-1

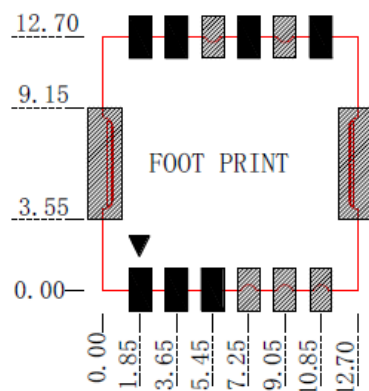


Pin Connections:

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	941.5		961.5
Output Power	dBm	+3.0	+5.0	+7.0
Step Size	KHz		25	
Settling Time	msec		10	30
Output Impedance	$\Omega$		50	
Phase Noise @1kHz offset	dBc / Hz		-76	-71
Phase Noise @10kHz offset	dBc / Hz		-105	-100
Phase Noise @100kHz offset	dBc / Hz		-126	-121
Phase Noise @1MHz offset	dBc / Hz		-146	-141
2nd Harmonic Suppression	dBc		-25	-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		24	30
PLL Power Supply (Vcp) Voltage	Vdc		5	
PLL Power Supply (Vcp) Current	mA		5	10
Operating Temperature Range	$^{\circ}\text{C}$	-40		+85