



### Features and Benefits

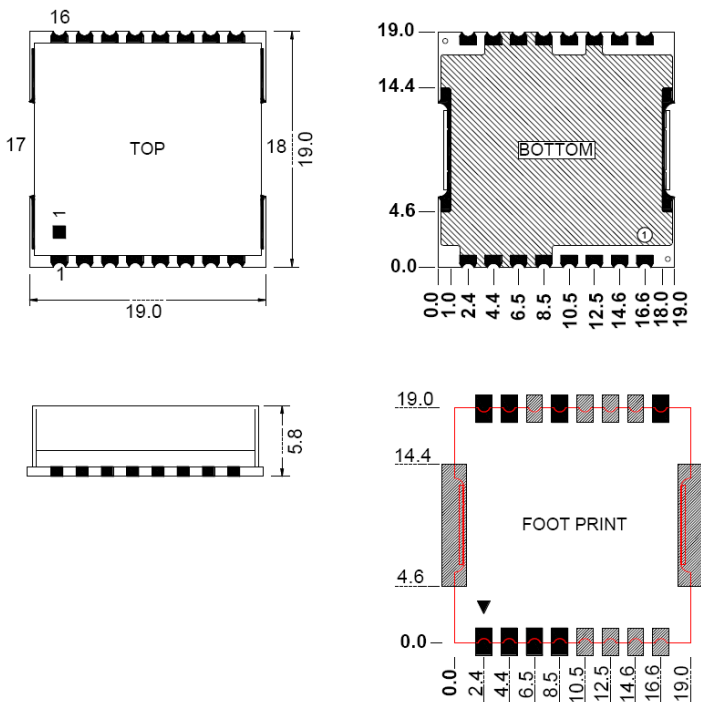
Frequency Range: 2156-2350MHz  
Supply Voltage: 5.0V  
Current: 40mA Max.  
3 wire serial Fractional PLL  
Output power: +6.0dBm Max.  
Phase noise: -95dBc/Hz@10KHz  
Operating temperature: -40°C--+85°C  
Size: 19.0x19.0x5.8mm  
Package type: SMD

### Typical Applications

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

### Mechanical Drawing & Pin Connections

Drawing No: MD240072-1



Pin Connections:

Pin	Function
1	CLK
2	DATA
3	LE
4	Ref. IN
5-8	GND
9	VCC(VCO)
10-12	GND
13	RF Out
14	GND
15	Vcp(PLL)
16	Lock Detect
17&18	GND

Unit in mm  
1mm = 0.0394 inches



## Specifications

Parameter	Units	Min.	Typical	Max.
Operating Frequency Range	MHz	2156		2350
Output Power	dBm	+2.0	+4.0	+6.0
Step Size	KHz		125	
Settling Time	msec		30	
Output Impedance	$\Omega$		50	
Phase Noise @1kHz offset	dBc / Hz		-90	-85
Phase Noise @10kHz offset	dBc / Hz		-95	-90
Phase Noise @100kHz offset	dBc / Hz		-117	-112
Phase Noise @1MHz offset	dBc / Hz		-137	-132
2nd Harmonic Suppression	dBc		-32	-20
Sideband Spurious Suppression	dBc		-60	
Reference (input frequency)	MHz	10		250
Reference (input level)	dBm	-5		+5
VCO Power Supply (Vcc) Voltage	Vdc		5.0	
VCO Power Supply (Vcc) Current	mA		35	40
PLL Power Supply (Vcp) Voltage	Vdc		5.0	
PLL Power Supply (Vcp) Current	mA		10	15
Operating Temperature Range	$^{\circ}\text{C}$	-40		+85