



Features and Benefits

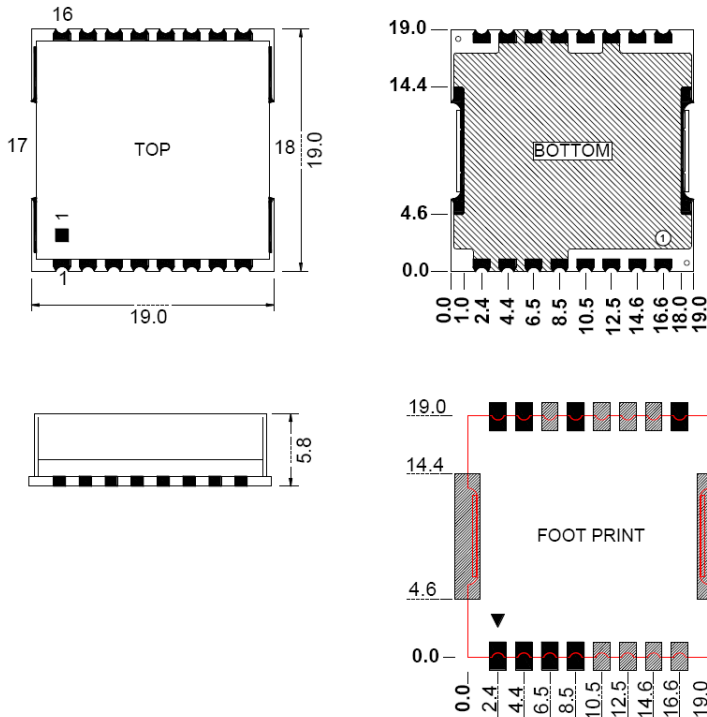
Frequency Range: 1645-1725MHz
 Supply Voltage: 5.0V
 Current: 30mA Max.
 3 wire serial integer PLL
 Output power: +5.0dBm Max.
 Phase noise: -102dBc/Hz@10KHz
 Operating temperature: -40°C--+85°C
 Size: 19.0x19.0x5.8mm
 Package type: SMD

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	1645		1725
Output Power	dBm	+1.0	+3.0	+5.0
Step Size	KHz		50	
Settling Time	msec		10	30
Output Impedance	Ω		50	
Phase Noise @ 1kHz offset	dBc / Hz		-69	-64
Phase Noise @ 10kHz offset	dBc / Hz		-102	-97
Phase Noise @ 100kHz offset	dBc / Hz		-125	-120
Phase Noise @ 1MHz offset	dBc / Hz		-148	-143
2nd Harmonic Suppression	dBc		-25	-20
Sideband Spurious Suppression	dBc			-65
Reference (input frequency)	MHz	5		70
Reference (input level)	dBm	-5		+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