



Features and Benefits

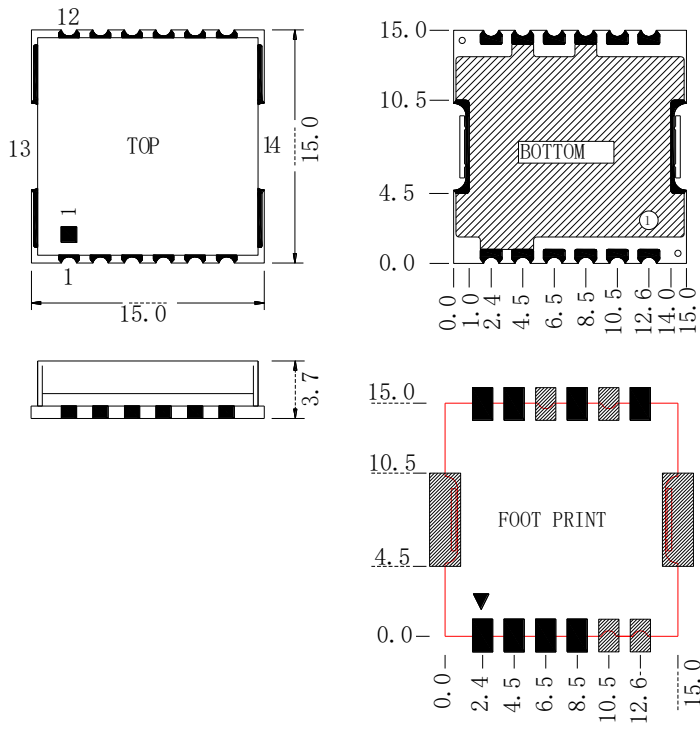
Frequency Range:1014-1074MHz
 Supply Voltage:5.0V
 Current: 25mA Max.
 3 wire serial Fractional PLL
 Output power: +2.0dBm Max.
 Phase noise: -103dBc/Hz@10KHz
 Operating temperature: -40°C--+85°C
 Size:15x15x3.7mm
 Package type: SMD

Typical Applications

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

Mechanical Drawing & Pin Connections

Drawing No: MD2400*)-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	1014		1074
Output Power	dBm	-2.0	0.0	+2.0
Step Size	KHz		50	
Settling Time	msec		10	30
Output Impedance	Ω		50	
Phase Noise @1kHz offset	dBc / Hz		-75	-70
Phase Noise @10kHz offset	dBc / Hz		-103	-98
Phase Noise @100kHz offset	dBc / Hz		-123	-118
Phase Noise @1MHz offset	dBc / Hz		-142	-137
2nd Harmonic Suppression	dBc		-43	-20
Sideband Spurious Suppression	dBc			-75
Reference (input frequency)	MHz	5		100
Reference (input level)	dBm	-5		+5
VCO Power Supply (Vcc) Voltage	Vdc		5	
VCO Power Supply (Vcc) Current	mA		19	25
PLL Power Supply (Vcp) Voltage	Vdc		5	
PLL Power Supply (Vcp) Current	mA		5	10
Operating Temperature Range	$^{\circ}\text{C}$	-40		+85