



### Features and Benefits

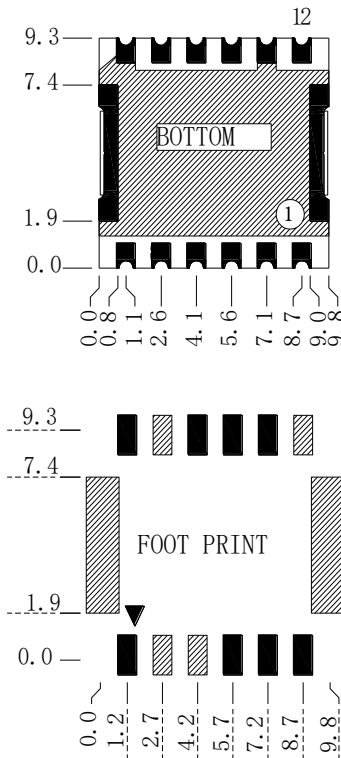
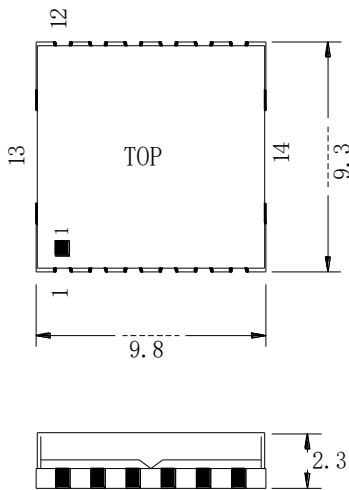
- Frequency Range:780-800MHz
- Supply Voltage:5.0V
- Current: 35mA Max.
- 3 wire serial integer PLL
- Output power: +10.0dBm Max.
- Phase noise: -111dBc/Hz@10KHz
- Operating temperature: -40°C--+85°C
- Size:9.8x9.3x2.3mm

### Typical Applications

- Base station
- Cable TV
- Satellite Communications
- UHF radio link

### Mechanical Drawing & Pin Connections

Drawing No: MD2400\* \$-1



Pin Connections:

Pin	Function
1	Lock Detect
2&3	N.C.
4	Vcc(VCO)
5	Vcp(PLL)
6	RF Out
7	GND
8	LE
9	DATA
10	CLK
11	GND
12	Ref. In
13&14	GND

Unit in mm  
1mm = 0.0394 inches



### Specifications

Parameter	Units	Min.	Typical	Max.
Operating Frequency Range	MHz	780		800
Output Power	dBm	+6.0	+8.0	+10.0
Step Size	KHz		100	
Settling Time	msec		10	30
Output Impedance	$\Omega$		50	
Phase Noise @1kHz offset	dBc / Hz		-74	-69
Phase Noise @10kHz offset	dBc / Hz		-111	-106
Phase Noise @100kHz offset	dBc / Hz		-134	-129
Phase Noise @1MHz offset	dBc / Hz		-153	-148
2nd Harmonic Suppression	dBc		-22	-15
Sideband Spurious Suppression	dBc			-80
Reference (input frequency)	MHz	5		40
Reference (input level)	dBm	-5		+5
VCO Power Supply (Vcc) Voltage	Vdc		5	
VCO Power Supply (Vcc) Current	mA		27	35
PLL Power Supply (Vcp) Voltage	Vdc		5	
PLL Power Supply (Vcp) Current	mA		5	10
Operating Temperature Range	$^{\circ}\text{C}$	-40		+85