



Features and Benefits

Frequency Range: 1890.25MHz

Supply Voltage: 5.0V

Current: 30mA Max.

3 wire serial Fractional PLL

Output power: +7.0dBm Max.

Phase noise: -111dBc/Hz@10KHz

Operating temperature: -40°C--+85°C

Size: 19.0x19.0x6mm

Package type: SMD

Typical Applications

SATCOM radio link

Point-to-Point radio

Receiver

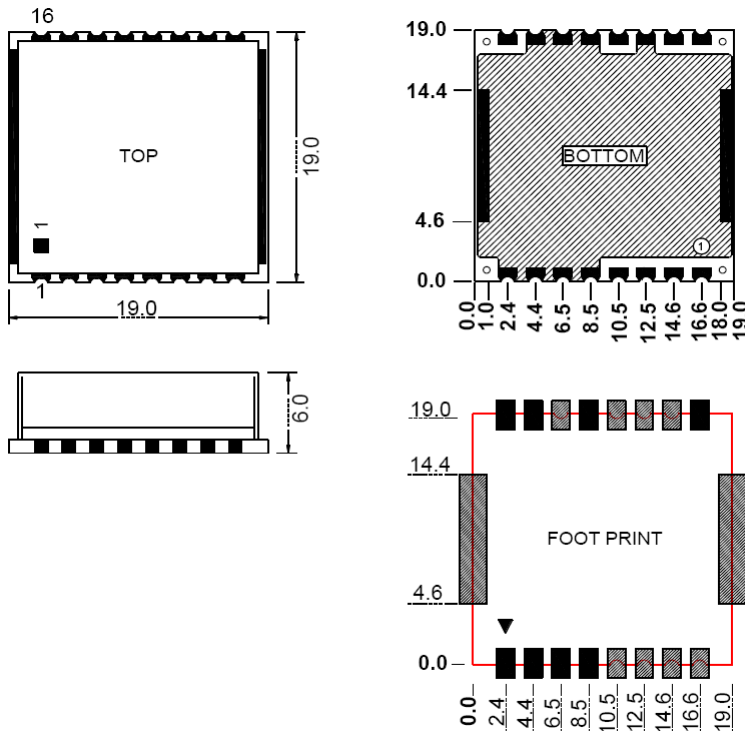
MMDS

Test Equipment

WiMAX

Radar

Mechanical Drawing & Pin Connections



Drawing No: MD240074-1

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		1890.25	
Output Power	dBm	+3.0	+5.0	+7.0
Step Size	KHz		50	
Settling Time	msec		10	30
Output Impedance	Ω		50	
Phase Noise @1kHz offset	dBc / Hz		-79	-74
Phase Noise @10kHz offset	dBc / Hz		-111	-106
Phase Noise @100kHz offset	dBc / Hz		-133	-128
Phase Noise @1MHz offset	dBc / Hz		-152	-147
2nd Harmonic Suppression	dBc		-28	-20
Sideband Spurious Suppression	dBc			-55
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		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