



Features and Benefits

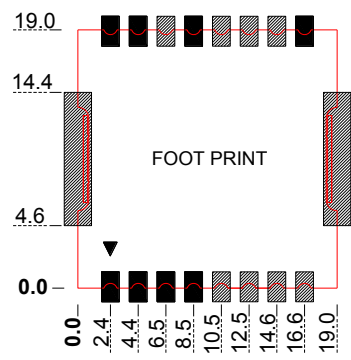
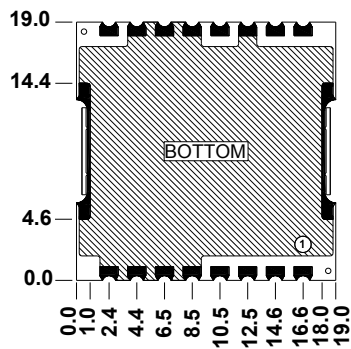
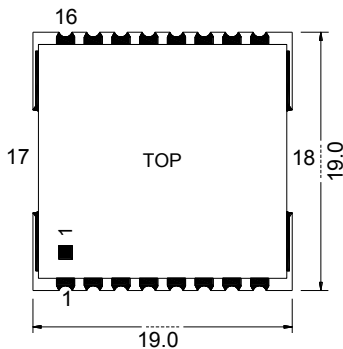
- Frequency Range:433-443MHz
- Supply Voltage:5.0V
- Current: 25mA Max.
- 3 wire serial integer PLL
- Output power: +5.0dBm Max.
- Phase noise: -109dBc/Hz@10KHz
- Operating temperature: -40°C--+85°C
- Size:19x19x5.8mm
- Package type: SMD

Typical Applications

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

Mechanical Drawing & Pin Connections

Drawing No: MD2400+&-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



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I H+I I MHz SMD PLL Synthesizer

Specifications

Parameter	Units	Min.	Typical	Max.
Operating Frequency Range	MHz	433		443
Output Power	dBm	+1.0	+3.0	+5.0
Step Size	KHz		10	
Settling Time	msec		10	30
Output Impedance	Ω		50	
Phase Noise @1kHz offset	dBc / Hz		-86	-81
Phase Noise @10kHz offset	dBc / Hz		-109	-104
Phase Noise @100kHz offset	dBc / Hz		-130	-125
Phase Noise @1MHz offset	dBc / Hz		-150	-145
2nd Harmonic Suppression	dBc		-28	-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		14	25
PLL Power Supply (Vcp) Voltage	Vdc		5	
PLL Power Supply (Vcp) Current	mA		5	10
Operating Temperature Range	$^{\circ}\text{C}$	-40		+85