

Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com PLL1919BQ-SS-523.5MHz-543.5MHz-A 523.5-543.5MHz SMD PLL Synthesizer

Features and Benefits

Frequency Range:523.5-543.5MHz

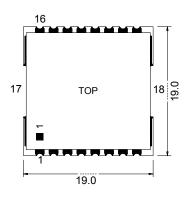
Supply Voltage:5.0V
Current: 30mA Max.
3 wire serial integer PLL
Output power: +2.0dBm Max.
Phase noise: -108dBc/Hz@10KHz
Operating temperature: -40°C--+85°C

Size:19.0x19.0x5.8mm Package type: SMD

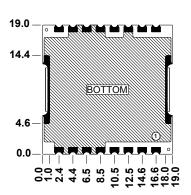
Typical Applications

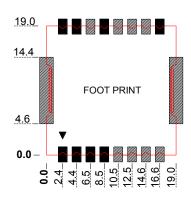
Base station
Cable TV
Satellite Communications
UHF radio link

Mechanical Drawing & Pin Connections









Drawing No:

MD2400+&-1

3

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	d GND			

Unit in mm 1mm = 0.0394 inches



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Specifications

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	523.5		543.5
Output Power		dBm	-2.0	0.0	+2.0
Step Size		KHz		100	
Settling Time		msec		10	30
Output Impedance		Ω		50	
Phase Noise	@1kHz offset	dBc / Hz		-79	-74
Phase Noise	@10kHz offset	dBc / Hz		-108	-103
Phase Noise	@100kHz offset	dBc / Hz		-132	-127
Phase Noise	@1MHz offset	dBc / Hz		-152	-147
2nd Harmonic Suppression		dBc		-33	-20
Sideband Spurious Suppression		dBc			-70
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		22	30
PLL Power Supply (Vcp) Voltage		Vdc		5	
PLL Power Supply (Vcp) Current		mA		5	10
Operating Temperature Range		°C	-40		+85