

## Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

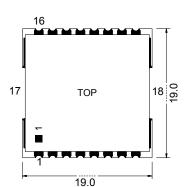
#### **Features and Benefits**

Frequency Range:328-336MHz Supply Voltage:5.0V Current: 30mA Max. 3 wire serial integer PLL Output power: +7.0dBm Max. Phase noise: -117dBc/Hz@10KHz Operating temperature: -40°C--+85°C Size:19x19x5.8mm Package type: SMD

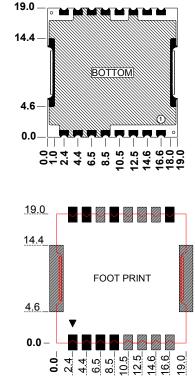
#### **Typical Applications**

Broadcast VHF radio Wireless Telemetry Test Instrument - Signal Generation

## **Mechanical Drawing & Pin Connections**







Drawing No: MD2400+&1

Pin Connections:

Fin 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

#### Dynamic Engineers, Inc.

Rev. 1

Dynamic Engineers reserves the right to make changes to the company datasheet(s) along with other information contained inside; such as data tables and araphs without notification to potential customers who may have earlier revisions in their possession.



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# **Specifications**

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	328		336
Output Power		dBm	+3.0	+5.0	+7.0
Step Size		KHz		10	
Settling Time		msec		10	30
Output Impedance		Ω		50	
Phase Noise	@1kHz offset	dBc / Hz		-90	-85
Phase Noise	@10kHz offset	dBc / Hz		-117	-112
Phase Noise	@100kHz offset	dBc / Hz		-138	-133
Phase Noise	@1MHz offset	dBc / Hz		-158	-153
2nd Harmonic Suppression		dBc		-26	-20
Sideband Spurious Suppression		dBc			-80
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		21	30
PLL Power Supply (Vcp) Voltage		Vdc		5	
PLL Power Supply (Vcp) Current		mA		5	10
Operating Temperature Range		°C	-40		+85

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