

Dynamic Engineers Inc.

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

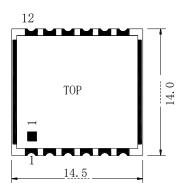
Features and Benefits

Frequency Range:1000.38-1010.38MHz 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:14.5x14x3.2mm D@@/(%(6 E !GG!%\$\$\$",A < n!%\$%\$",A < n!5 1000.38-1010.38MHz SMD PLL Synthesizer

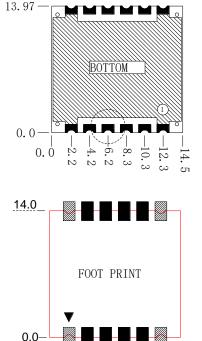
Typical Applications

Base station Cable TV Satellite Communications UHF radio link

Mechanical Drawing & Pin Connections







Drawing No: MD240061-1

Pin Connections:

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

Unit in mm 1mm = 0.0394 inches

Rev. 1

 $\begin{array}{c} 14.5\\ 12.5\\ 8.3\\ 6.2\\ 4.2\\ 2.2\end{array}$

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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	1000.38		1010.38
Output Power		dBm	-2.0	0	+2.0
Step Size		KHz		12.5	
Settling Time		msec		10	30
Output Impedance		Ω		50	
Phase Noise	@1kHz offset	dBc / Hz		-83	-78
Phase Noise	@10kHz offset	dBc / Hz		-108	-103
Phase Noise	@100kHz offset	dBc / Hz		-129	-124
Phase Noise	@1MHz offset	dBc / Hz		-148	-143
2nd Harmonic Suppression		dBc		-19	-15
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		20	30
PLL Power Supply (Vcp) Voltage		Vdc		5	
PLL Power Supply (Vcp) Current		mA		5	10
Operating Temperature Range		°C	-40		+85