

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: 1400MHz - 2650MHz Supply voltage: 5V Current: 40mA Max. Output power: +10dBm Max. Tuning voltage: 0V to 22V Phase noise: -112dBc/Hz@100KHz Operating temperature: -40°C to +85°C Size: 12.7x12.7x3.9mm

Typical Applications

SATCOM Receiver Radio MMDS Radar **Test Equipment** WiMax

Mechanical Drawing & Pin Connections

MD140084-2 **Drawing No:**

0.405

_0.305 [7.747]

0.205

0.08 [2.030] [4.570] [7.110] [7.110] [9.650] 0.42 0.22 0.32 8.130] 0.5 [12.700] RF ___0.415 [10.541] 0.415 0.405 RF 0.305 [7.747] Vcc 0.315 0.315 [8.001] Vcc K 0.5 12.700 FOOT PRINT TOP BOTTOM 0.215 0.21 0.205 0.105 [2.667] _0.115 [2.921] 0.115 _____ -0.105 [2.667] Vt Vt 0 [0.000] 0 [0.000] 0.5
[12.700] 0.5 [12.700] 085 159] 185 699] 0.000 385 0.00] 0.035 0.215 0.315 [8.001] 8001 0.115 0.385 0.415 10.541] 0.445 0.445 11.301] 0.484 0.06 [1.525] PIN CONNECTIONS 0.154 0.033 2 Vt RF Out 10 0 [0.000] inch 14 Vcc [mm] Others GND 0.000 0.1 2.5401 0.04



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Specifications

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	1400		2650
Power Supply (Vcc)	Voltage	Vdc		5	
	Current	mA			40
Output Power		dBm	+2.5	+6.5	+10.5
Output Impedance		Ω		50	
Phase Noise	@10kHz offset	dBc / Hz		-90	
Phase Noise	@100kHz offset	dBc / Hz		-112	
Tuning Voltage (Vt)		V	0		+22
Tuning Voltage Sensitivity (Kv)		MHz / V		30-130	
2nd Harmonic Suppression		dBc		-12	
Pushing Figure		MHz / V		5	
Pulling Figure		MHz		15	
Input Capacitance		pF		100	
Operating Temperature Range		°C	-40		+85