



Synthesizer, SMT

Frequency 806-866MHz

PLL25A-866MF

Features

- ◆ Low Cost
- ◆ Low Power Consumption
- ◆ Low Phase Noise
- ◆ Fast Settling Time
- ◆ Integrated VCO, PLL IC, Loop Filter

Applications

- ◆ Commercial Wireless Applications

Electrical Specifications, $T_A = +25^{\circ}\text{C}$, $V_{CC} = +5\text{V}$ (unless otherwise stated)

Parameter	Units	Min	Typ	Max
Frequency Range –	MHz	806		866
Step Size	kHz		25	
Settling Time – To within 1 kHz	mSec		11.5	
Output Power –	dBm	0.0		4.0
Output Phase Noise:				
1 kHz	dBc/Hz		-74	-70
10 kHz	dBc/Hz		-112	-107
100 kHz	dBc/Hz		-135	-129
Power Supply –	Volts	+4.75	5.00	+5.25
Supply Current	mA		29	32
Spurious Product – 25 kHz	dBc		-80	-70
Reference Feedthrough –	dBc		-80	-70
Harmonic Suppression:				
2nd Harmonic	dBc		-15	
3rd Harmonic	dBc		-20	
Ref Osc Signal				
Frequency	MHz		10	
Amplitude	Vp-p	0.4		2
Phase Noise – 1 kHz	dBc/Hz		-145	
Input Impedance	k Ω		10	
Output Impedance –	Ω		50	
Operating Temperature Range	$^{\circ}\text{C}$	-40		+85
Charge Pump Output Current	mA		5.0	
PLL IC	ADF4113			

Comments

All specifications apply with a 50 ohm load impedance