

Synthesizer, SMT

Frequency 750-1140MHz

PLL25A-945M

Features

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

Applications

- ◆ Commercial Wireless Applications

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

Parameter	Units	Min	Typ	Max
Frequency Range –	MHz	750		1140
Step Size	kHz		1000	
Settling Time – To within 1 kHz	mSec		3.9	
Output Power –	dBm	2.0		5.0
Output Phase Noise:				
1 kHz	dBc/Hz		-88	-84
10 kHz	dBc/Hz		-98	-95
100 kHz	dBc/Hz		-128	-125
Power Supply –				
PLL, Pin15	Volts	4.75	5	5.25
VCO, Pin9	Volts	11.75	12	12.25
Supply Current				
PLL	mA		10	13
VCO	mA		21	24
RF Charge Pump Current Setting	mA		5.0	
Spurious Product – 1000 kHz	dBc		-80	-70
Reference Feedthrough –	dBc		-80	-70
Harmonic Suppression:				
2nd Harmonic	dBc		-7	
3rd Harmonic	dBc		-20	
Ref Osc Signal				
Frequency	MHz		10	
Amplitude	Vp-p	3		5
Phase Noise – 1 kHz	dBc/Hz		-145	
Input Impedance	k Ω		100	
Output Impedance –	Ω		50	
Operating Temperature Range	$^{\circ}\text{C}$	-40		+85
PLL IC	ADF4113			