



Synthesizer, SMT

Frequency 150-165MHz

PLL25A-165M

Features

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

Applications

- ◆ Commercial Wireless Applications

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

Parameter	Units	Min	Typ	Max
Frequency Range –	MHz	150		165
Step Size	kHz		200	
Settling Time – To within 1 kHz	mSec		3.8	
Output Power –	dBm	0.0		4.0
Output Phase Noise:				
1 kHz	dBc/Hz		-93	-90
10 kHz	dBc/Hz		-115	-112
100 kHz	dBc/Hz		-139	-135
Power Supply –	Volts	+4.75	5.00	+5.25
Supply Current	mA		18	21
RF Charge Pump Current Setting	mA		5.0	
Spurious Product – 200 kHz	dBc		-80	-70
Reference Feedthrough –	dBc		-80	-70
Harmonic Suppression:				
2nd Harmonic	dBc		-15	
3rd Harmonic	dBc		-30	
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
PLL IC	ADF4111			

Comments

All specifications apply with a 50 ohm load impedance.