



Synthesizer, SMT

Frequency 275-281MHz

PLL25A-278M

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	275		281
Step Size	kHz		200	
Settling Time – To within 1 kHz	mSec		0.5	
Output Power –	dBm	1.0		5.0
Output Phase Noise:				
1 kHz	dBc/Hz		-85	-80
10 kHz	dBc/Hz		-100	-107
100 kHz	dBc/Hz		-120	-117
Power Supply –	Volts	+4.75	5.00	+5.25
Supply Current	mA		27	30
Spurious Product – 200 kHz	dBc		-80	-75
Reference Feedthrough –	dBc		-80	-75
Harmonic Suppression:				
2nd Harmonic	dBc		-	
3rd Harmonic	dBc		-	
Ref Osc Signal				
Frequency	MHz		10	
Amplitude	Vp-p	0.4		2
Phase Noise – 1 kHz	dBc/Hz		-145	
Input Impedance	k Ω		1000	
Output Impedance –	Ω		50	
Operating Temperature Range	$^{\circ}\text{C}$	-25		+75

Comments

All specifications apply with a 50 ohm load impedance.