

PCA1401A PHASE LOCKED LOOP Rev A1

FEATURES • Frequency Range: 1401 - 1402 MHz • Step Size: 1000 KHz • cPLL - Style Package APPLICATIONS • Fixed Wireless Broadband Equipment • Point-to-Point Microwave Radio • Satellite Communication Systems	PHASE NOISE (1 H	z BW, typical)
PERFORMANCE SPECIFICATIONS	VALUE	UNITS
Dhage Noise @ 10 kHz offect (1 Hz DW(two)	1401 - 1402	
Harmonic Suppression (2nd typ.)	-105	dBc
Sideband Spurs (typ.)	-70	dBc
Power Output	0+2	dBm
Load Impedance	50	Ω
Step Size	1000	KHz
Charge Pump Output Current	1250	μА
Switching Speed (typ., adjacent channel)	2	mSec
Startup Lock Time (typ.)	3	mSec
Operating Temperature Range	-40 to 85	°C
Package Style	cPLL	
POWER SUPPLY REQUIREMENTS		
Supply Voltage (Vcc, nom.)	55	Vdc
Supply Current (Icc, typ.)	35	mA
All specifications are typical unless otherwise noted and subject to change without notice.		
APPLICATION NOTES AN-107 : How to Solder Z-COMM VCOs / PLLs		

- AN-200 : Mounting and Grounding of Z-COMM PLLs
 AN-201 : PLL Eurodamontals
 AN-202 : PLL Eurodamontals
- AN-201 : PLL Fundamentals
 AN-202 : PLL Functional Description

NOTES:

Reference Oscillator Signal: 5 MHz<f_{osc}<100 MHz Frequency Synthesizer: Analog Devices - ADF4113

LOW COST - HIGH PERFORMANCE PHASE LOCKED LOOP





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