



查询PCA0300A供应商

Z-Communications, Inc.

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捷多邦，专业PCB打样工厂，24小时加急出货

PCA0300A

PHASE LOCKED LOOP

Rev A1



FEATURES

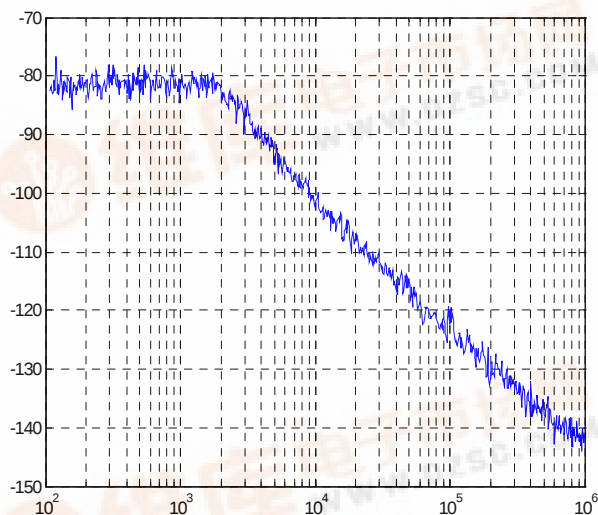
- Frequency Range: 275 - 325 MHz
- Step Size: 100 KHz
- cPLL - Style Package

APPLICATIONS

- Satellite Modems
- Mobile Radios
- CATV

PHASE NOISE (1 Hz BW, typical)

$\mathcal{L}(f)$ (dBc/Hz)



OFFSET (Hz)

PERFORMANCE SPECIFICATIONS

	VALUE	UNITS
Frequency Range	275 - 325	MHz
RMS Phase Error (100 Hz - 100 KHz)	1.0	°
Harmonic Suppression (2nd, typ.)	-7	dBc
Sideband Spurs (typ.)	-65	dBc
Power Output	4±3	dBm
Load Impedance	50	Ω
Step Size	100	KHz
Charge Pump Output Current	1250	μA
Switching Speed (typ., adjacent channel)	3	mSec
Startup Lock Time (typ.)	5	mSec
Operating Temperature Range	-40 to 85	°C
Package Style	cPLL	

POWER SUPPLY REQUIREMENTS

Supply Voltage (Vcc, nom.)	5	Vdc
Supply Current (Icc, typ.)	24	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 Fundamentals
- AN-202 : PLL Functional Description

NOTES:

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

