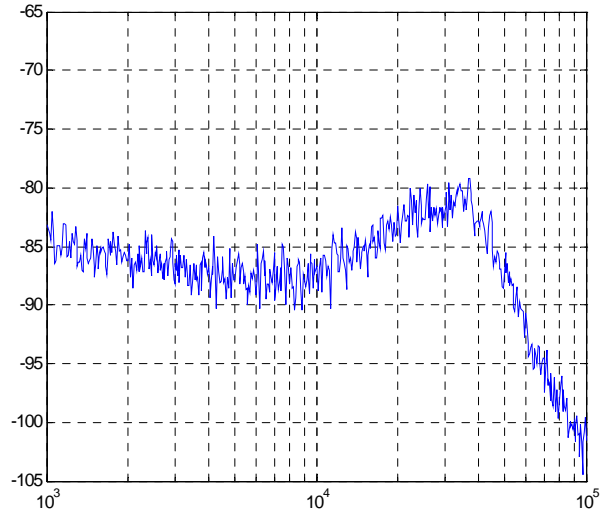




PHASE NOISE (1 Hz BW, typical)

£(f) (dBc/Hz)



OFFSET (Hz)

FEATURES
• Frequency Range: 3975 - 4025 MHz
• Step Size: 1000 KHz
• PLL - Style Package
APPLICATIONS
• Microwave Radios
• Satellite Communications
• Direct Broadcast

PERFORMANCE SPECIFICATIONS	VALUE	UNITS
Frequency Range	3975 - 4025	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-85	dBc/Hz
Harmonic Suppression (2nd, typ.)	-15	dBc
Sideband Spurs (typ.)	-65	dBc
Power Output	-0.5±2.5	dBm
Load Impedance	50	Ω
Step Size	1000	KHz
Charge Pump Output Current	5000	μA
Switching Speed (typ., adjacent channel)	3	mSec
Startup Lock Time (typ.)	5	mSec
Operating Temperature Range	-40 to 85	°C
Package Style	PLL	
POWER SUPPLY REQUIREMENTS		
Supply Voltage (Vcc, nom.)	5	Vdc
Supply Current (Icc, typ.)	26	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 MHz f_{osc} <math><100</math> MHz
 Frequency Synthesizer: Analog Devices - ADF4113

VCO TUNING CURVE, typ.

FREQUENCY (MHz)

□ 85 °C
 ■ 25 °C
 ● -40 °C

TUNING VOLTAGE (Vdc)

VCO POWER CURVE, typ.

OUTPUT POWER (dBm)

■ 25 °C

FREQUENCY (MHz)

PHYSICAL DIMENSIONS

