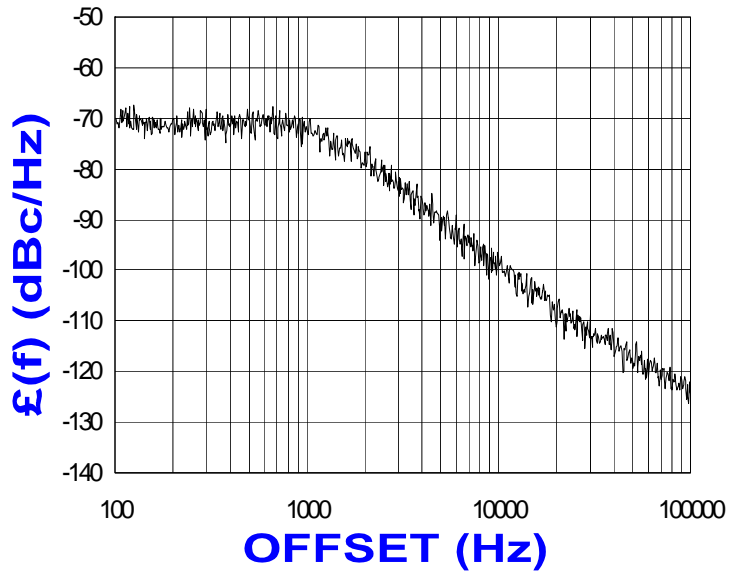




PHASE NOISE (1 Hz BW, typical)



FEATURES
• Frequency Range: 2970 - 3030 MHz
• Step Size: 1000 KHz
• PLL - Style Package
APPLICATIONS
• Telecommunications
• Satellite
• Telemetry

PERFORMANCE SPECIFICATIONS	VALUE	UNITS
Frequency Range	2970 - 3030	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-100	dBc/Hz
Harmonic Suppression (2nd, typ.)	-15	dBc
Sideband Spurs (typ.)	-80	dBc
Power Output	-1±3	dBm
Load Impedance	50	Ω
Step Size	1000	KHz
Charge Pump Output Current	2500	μ A
Switching Speed (typ., adjacent channel)	2	mSec
Startup Lock Time (typ.)	3	mSec
Operating Temperature Range	-40 to 85	$^{\circ}$ C
Package Style	PLL	
POWER SUPPLY REQUIREMENTS		
Supply Voltage (Vcc, nom.)	5	Vdc
Supply Current (Icc, typ.)	50	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: $5 \text{ MHz} < f_{\text{osc}} < 100 \text{ MHz}$ Prescaler: 32
 Frequency Synthesizer: Analog Devices - ADF4106

VCO TUNING CURVE, typ.

FREQUENCY (MHz)

□ 70 °C
 ■ 25 °C
 ● 0 °C

TUNING VOLTAGE (Vdc)

VCO POWER CURVE, typ.

OUTPUT POWER (dBm)

■ 25 °C

FREQUENCY (MHz)

PHYSICAL DIMENSIONS

