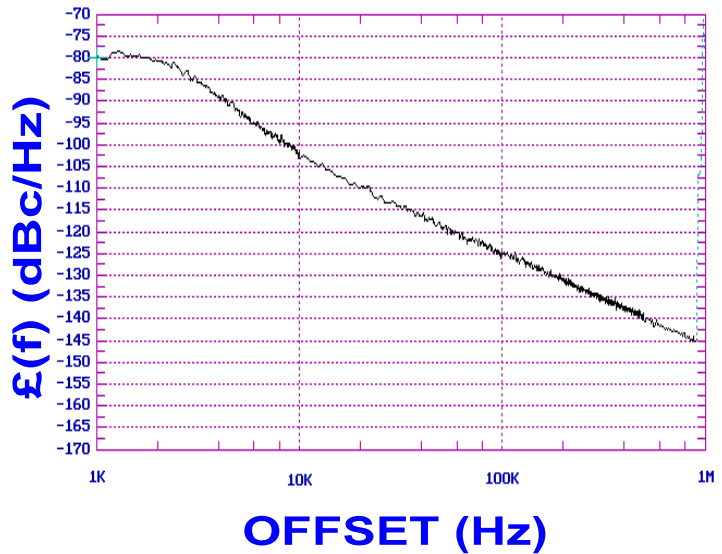


PHASE NOISE (1 Hz BW, typical)



FEATURES

- Frequency Range: 190 - 230 MHz
- Step Size: 50 KHz
- PLL - Style Package

APPLICATIONS

- Telecommunications
- Satellite
- Telemetry

PERFORMANCE SPECIFICATIONS

	VALUE	UNITS
Frequency Range	190 - 230	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-102	dBc/Hz
Harmonic Suppression (2nd, typ.)	-9	dBc
Sideband Spurs (typ.)	-65	dBc
Power Output	5±2	dBm
Load Impedance	50	Ω
Step Size	50	kHz
Charge Pump Output Current	5000	μ A
Switching Speed (typ., adjacent channel)	1	mSec
Startup Lock Time (typ.)	1.5	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.)	25	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-202 : PLL Functional Description

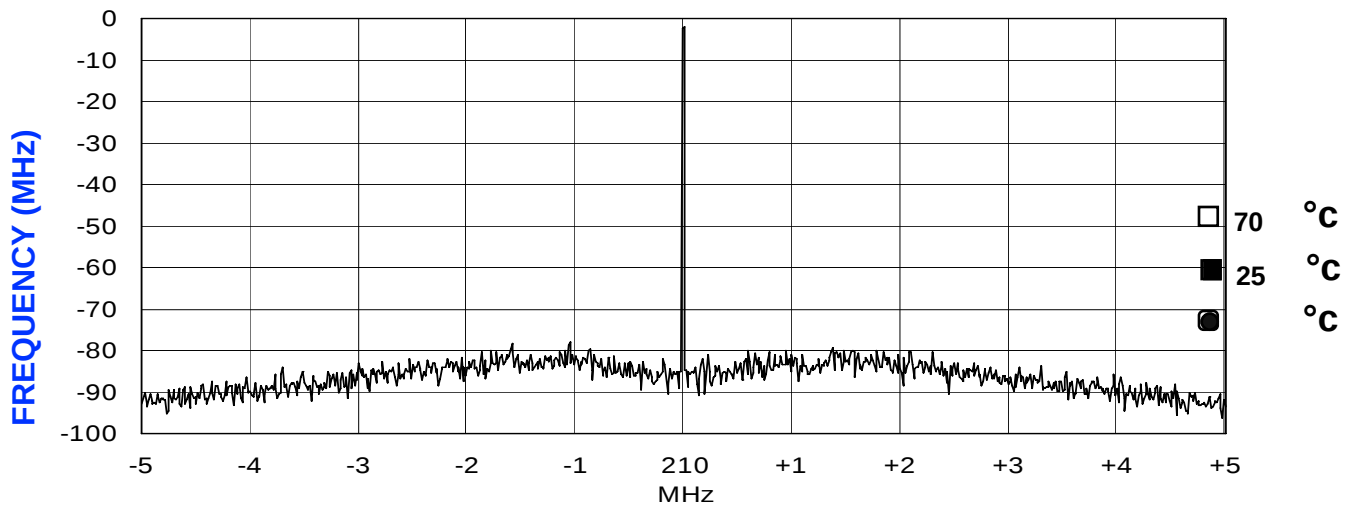
NOTES:

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

Prescaler: 8

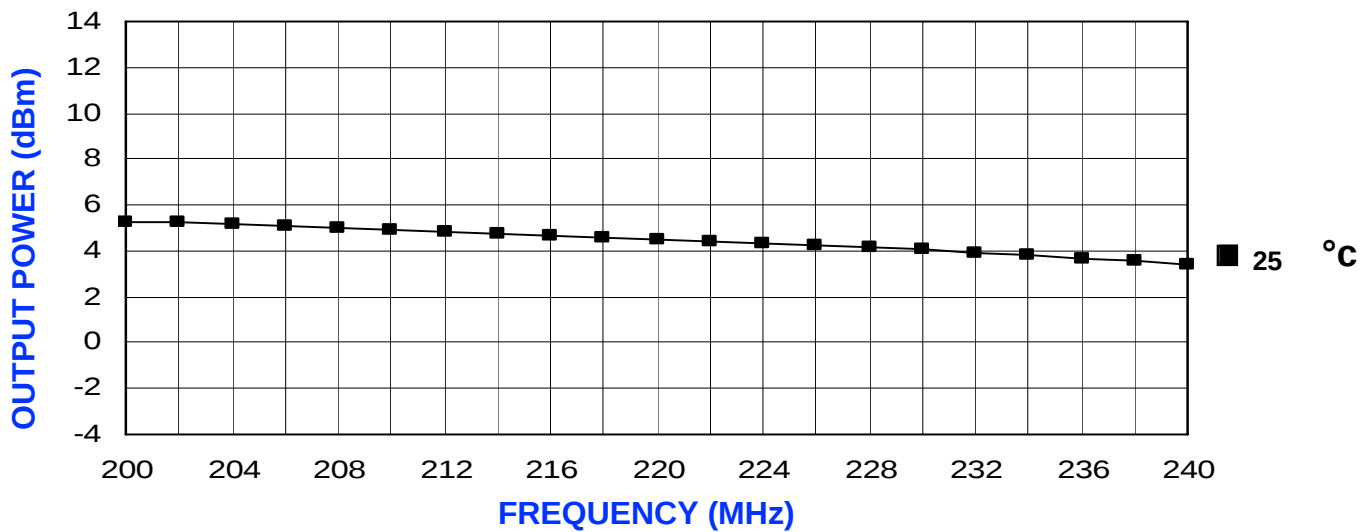
PHASE LOCKED LOOP

VCO TUNING CURVE, typ.



TUNING VOLTAGE (Vdc)

VCO POWER CURVE, typ.



FREQUENCY (MHz)

PHYSICAL DIMENSIONS

