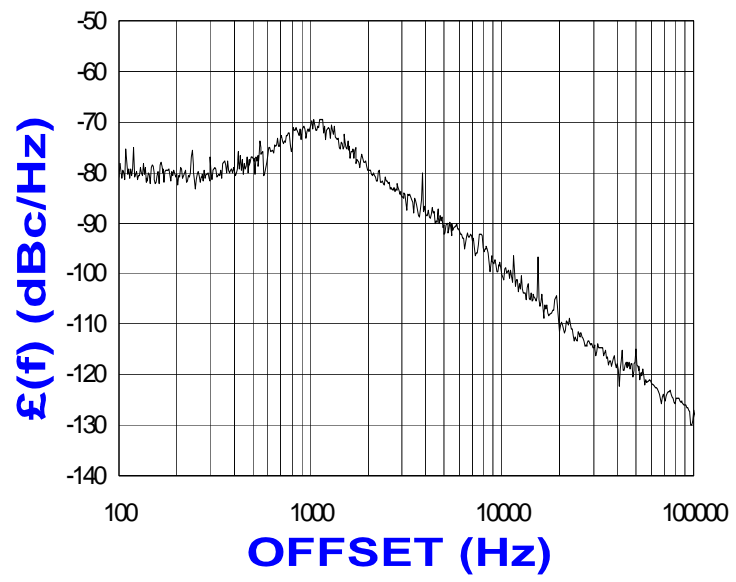


**PHASE NOISE (1 Hz BW, typical)**



**FEATURES**

- Frequency Range: 865 - 870 MHz
- Step Size: 50 KHz
- PLL-24 - Style Package

**APPLICATIONS**

- Basestations
- Satellite Communications
- Mobile Radios

**PERFORMANCE SPECIFICATIONS**

PERFORMANCE SPECIFICATIONS	VALUE	UNITS
Frequency Range	865 - 870	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-100	dBc/Hz
Harmonic Suppression (2nd, typ.)	-15	dBc
Sideband Spurs (typ.)	-65	dBc
Power Output	2.5±2.5	dBm
Load Impedance	50	$\Omega$
Step Size	50	KHz
Charge Pump Output Current	1250	$\mu$ A
Switching Speed (typ., adjacent channel)	1	mSec
Startup Lock Time (typ.)	1	mSec
Operating Temperature Range	-40 to 85	$^{\circ}$ C
Package Style	PLL-24	

**POWER SUPPLY REQUIREMENTS**

Supply Voltage (Vcc, nom.)	5	Vdc
Supply Current (Icc, typ.)	30	mA

All specifications are typical unless otherwise noted and subject to change without notice.

**APPLICATION NOTES**

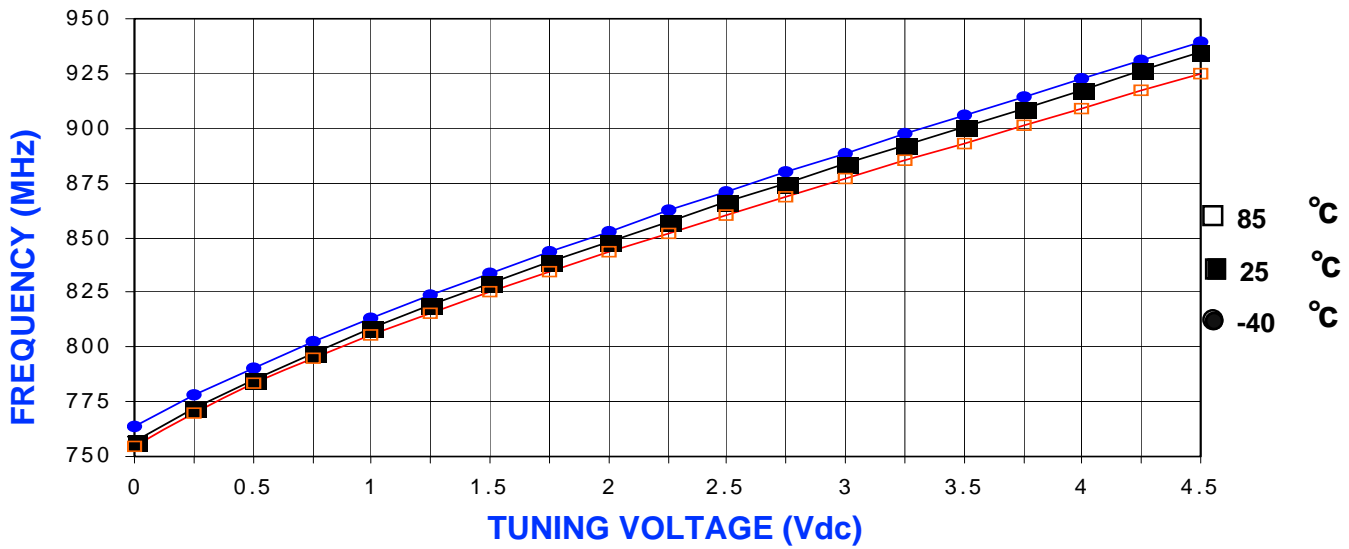
- AN-107 : How to Solder Z-COMM VCOs / PLLs
- AN-200 : Mounting and Grounding of Z-COMM PLLs
- AN-201 : PLL Fundamentals      AN-202 : PLL Functional Description

**NOTES:**

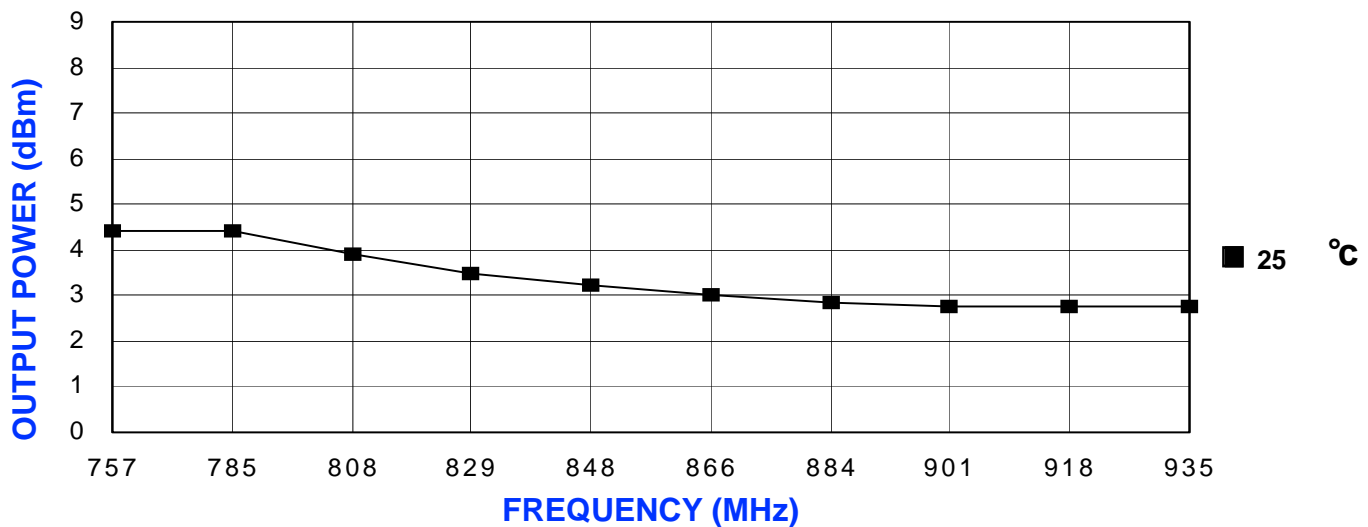
Reference Oscillator Signal:  $5 \text{ MHz} < f_{osc} < 100 \text{ MHz}$   
 Frequency Synthesizer: Analog Devices - ADF4106

Downloaded from [Elcodis.com](http://Elcodis.com) electronic components distributor

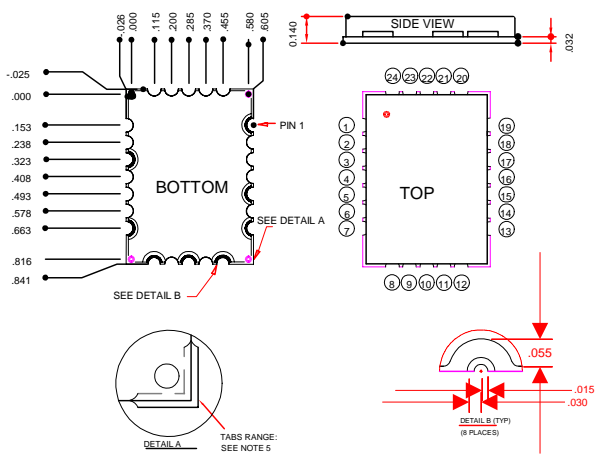
**VCO TUNING CURVE, typ.**



**VCO POWER CURVE, typ.**



**PHYSICAL DIMENSIONS**



1. The inside radius of all 24 half holes at the perimeter of the board are plated to provide a surface for the attachment of the PLL Module to the PCB. 16 pads are for grounding, 8 pads are for signal interface.
2. The surface of the shield is tin-plated and may be soldered to. The shield's base metal is cold-rolled steel.
3. The ground plane on the bottom side is ground and attaches to a ground track on the top side of the board as well as to the shield.
4. Unless otherwise noted all dimensions are in inches.
5. Unless otherwise noted all tolerances are as follows:  
.xxx = ± .010.

- P1 RF OUTPUT
- P2-4 GROUND
- P5 REFERENCE OSCILLATOR INPUT
- P6 GROUND
- P7 CLOCK
- P8 DATA
- P9 GROUND
- P10 LOAD ENABLE
- P11 GROUND
- P12 LOCK DETECT
- P13 VCC
- P14 GROUND
- P15 GROUND
- P16 GROUND
- P17 NO CONNECTION
- P18-24 GROUND