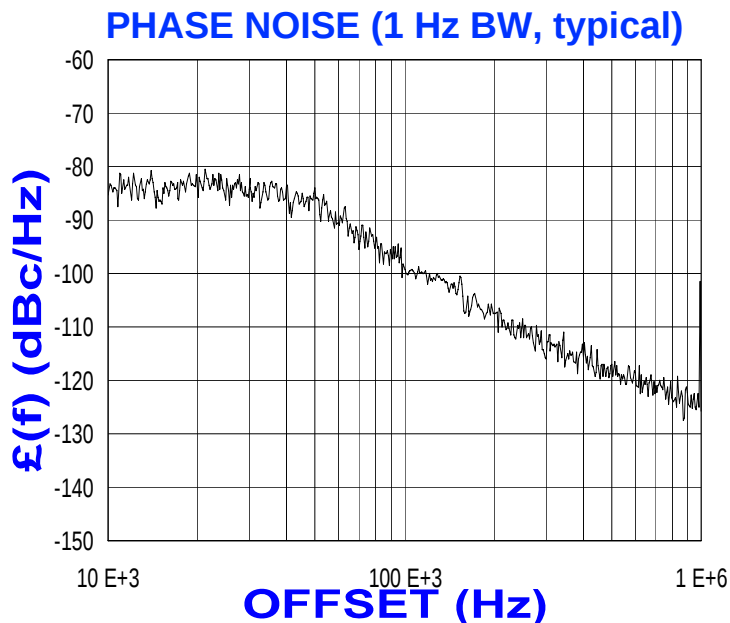
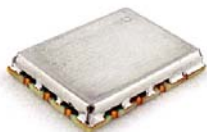




FEATURES

- Frequency Range: 4900 - 5100 MHz
- Step Size: 1000 KHz
- PLL - Style Package

APPLICATIONS

- HIPERLAN
- Microwave Radio
- Wireless broadband access

PERFORMANCE SPECIFICATIONS

	VALUE	UNITS
Frequency Range	4900 - 5100	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-85	dBc/Hz
Harmonic Suppression (2nd, typ.)	-30	dBc
Sideband Spurs (typ.)	-65	dBc
Power Output	0 ± 3	dBm
Load Impedance	50	Ω
Step Size	1000	KHz
Charge Pump Output Current	5000	μA
Switching Speed (typ., adjacent channel)	1	mSec
Startup Lock Time (typ.)	1	mSec
Operating Temperature Range	0 to 70	$^{\circ}\text{C}$
Package Style	PLL	

POWER SUPPLY REQUIREMENTS

Supply Voltage (V_{cc} , nom.)	5	Vdc
Supply Current (I_{cc} , typ.)	28	mA

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

APPLICATION NOTES

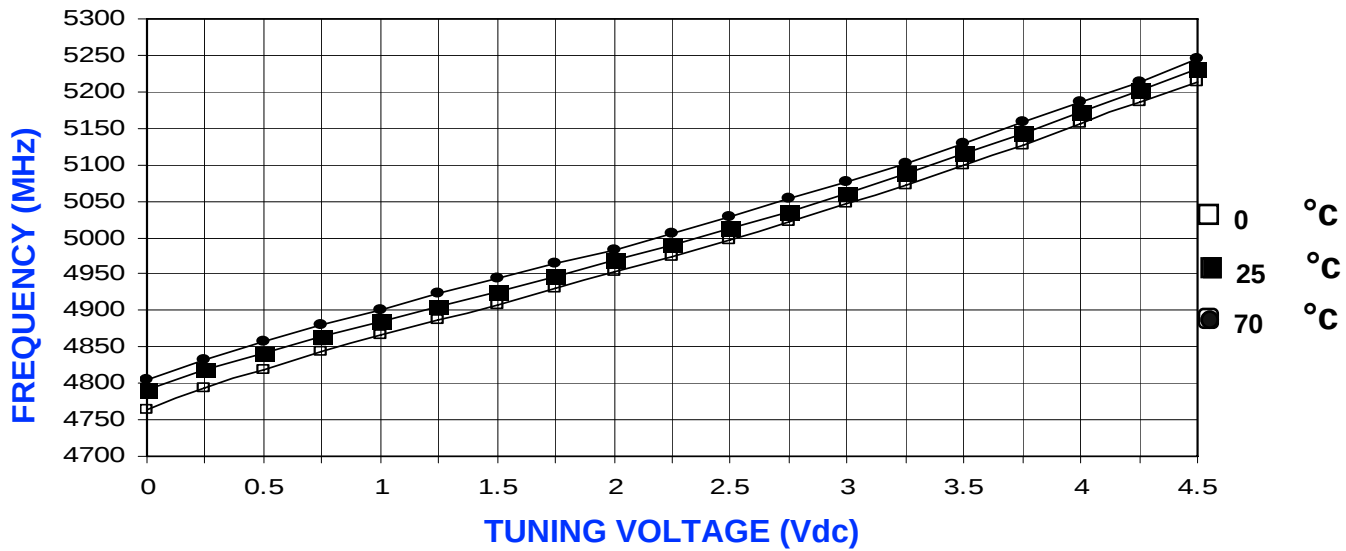
- AN-107 : How to Solder Z-COMM VCOs / PLLs
- AN-200 : Mounting and Grounding of Z-COMM PLLs
- AN-201 : PLL Fundamentals AN-202 : PLL Functional Description

NOTES:

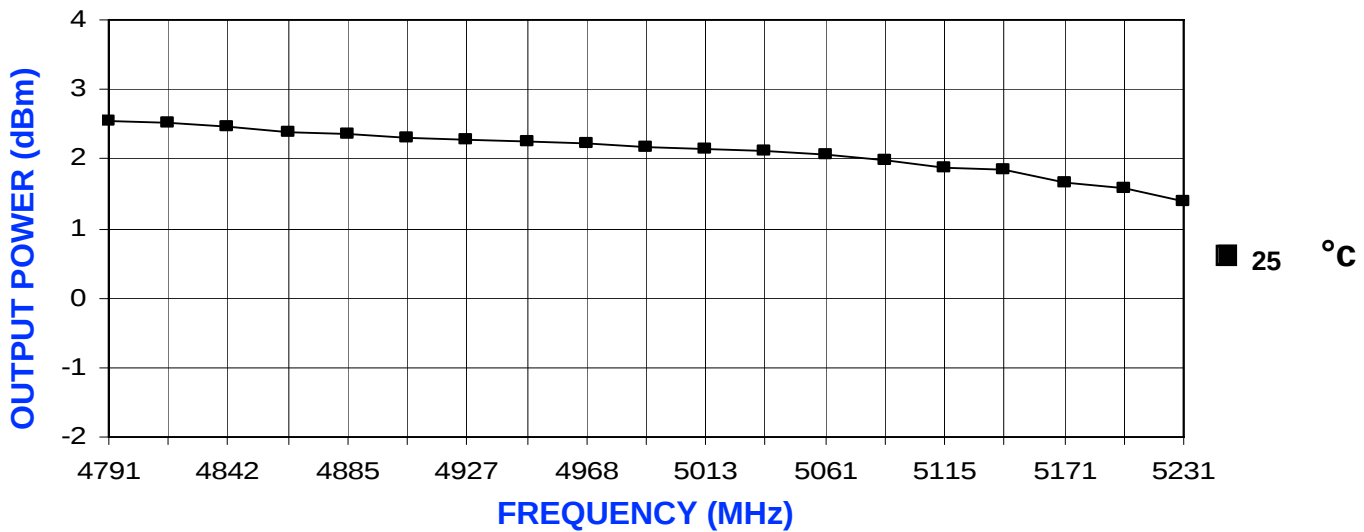
Reference Oscillator Signal: $5 \text{ MHz} < f_{osc} < 100 \text{ MHz}$
 Frequency Synthesizer: Analog Devices - ADF4106

Prescaler: 32

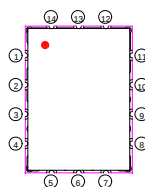
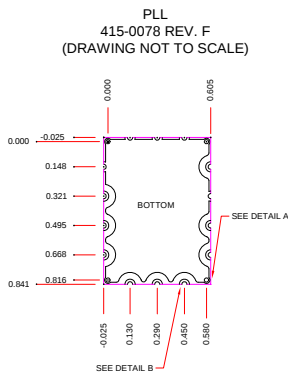
VCO TUNING CURVE, typ.



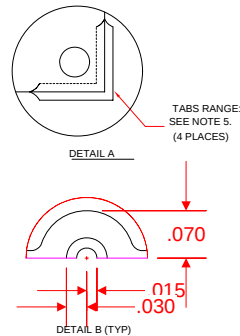
VCO POWER CURVE, typ.



PHYSICAL DIMENSIONS



- P1 RF OUTPUT
- P2 GROUND
- P3 REFERENCE OSCILLATOR INPUT
- P4 CLOCK
- P5 DATA
- P6 LOAD ENABLE
- P7 LOCK DETECT
- P8 VCC
- P9 OPTIONAL
- P10 NO CONNECTION
- P11-14 GROUND



NOTES:

1. THE INSIDE RADIUS OF ALL 14 HOLE AT THE PERIMETER OF THE BOARD ARE PLATED TO PROVIDE A SURFACE FOR THE ATTACHMENT OF THE PLL MODULE TO A PCB, IN 11 LOCATIONS, WITH 3 PADS BEING USED FOR ELECTROMECHANICAL INTERFACE.
2. THE SURFACE OF THE SHIELD IS IN PLATED AND MAY BE SOLDERED TO THE SHIELD'S BASE METAL IS OBTAINED TO THE SHIELD.
3. THE GROUND PLANE IS GROUND AND ATTACHES TO A GROUND TRACK ON THE UPPER SIDE OF THE BOARD AS WELL AS THE SHIELD BY PTH.
4. UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES.
5. UNLESS OTHERWISE NOTED ALL TOLERANCES ARE AS FOLLOWS:
TOLERANCES
.XXX= ± .010