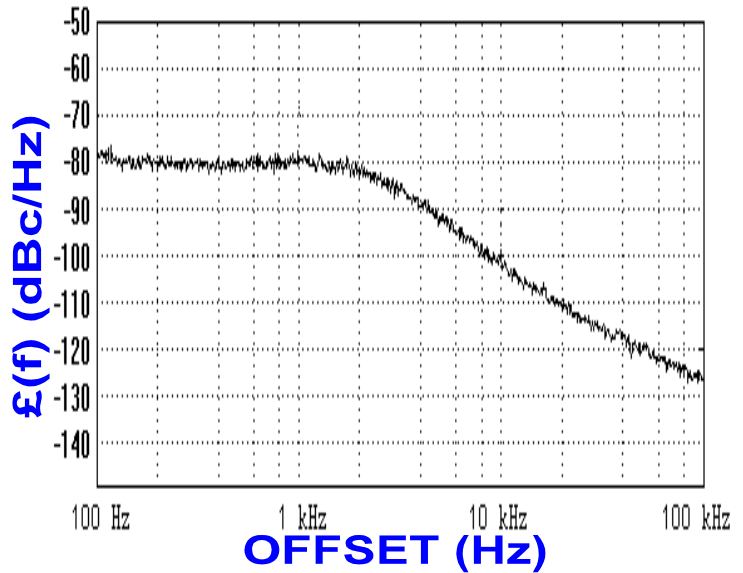


Unknown container object

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



**FEATURES**

- Frequency Range: 988 - 1028 MHz
- Step Size: 1000 KHz
- PLL - Style Package

**APPLICATIONS**

- Basestations
- Mobile Radios
- Satellite Communications

**PERFORMANCE SPECIFICATIONS**

PERFORMANCE SPECIFICATIONS	VALUE	UNITS
Frequency Range	988 - 1028	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-101	dBc/Hz
Harmonic Suppression (2nd, typ.)	-20	dBc
Sideband Spurs (typ.)	-70	dBc
Power Output	0.5±2.5	dBm
Load Impedance	50	Ω
Step Size	1000	KHz
Charge Pump Output Current	250	μA
Switching Speed (typ., adjacent channel)	2	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.)	32	mA

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

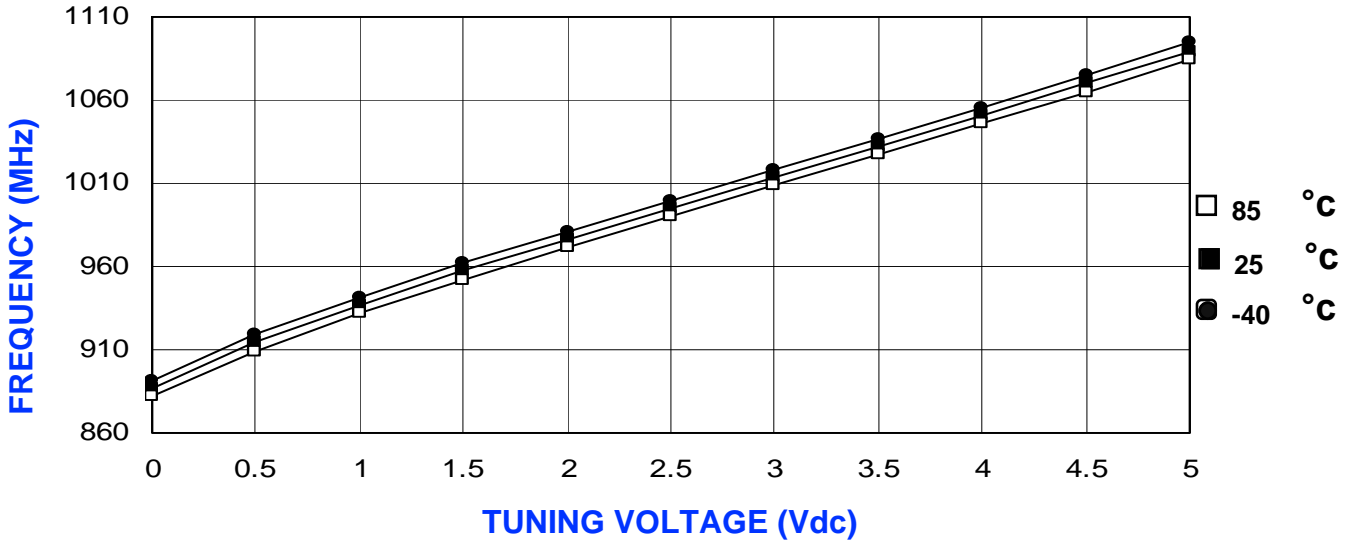
**APPLICATION NOTES**

- 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

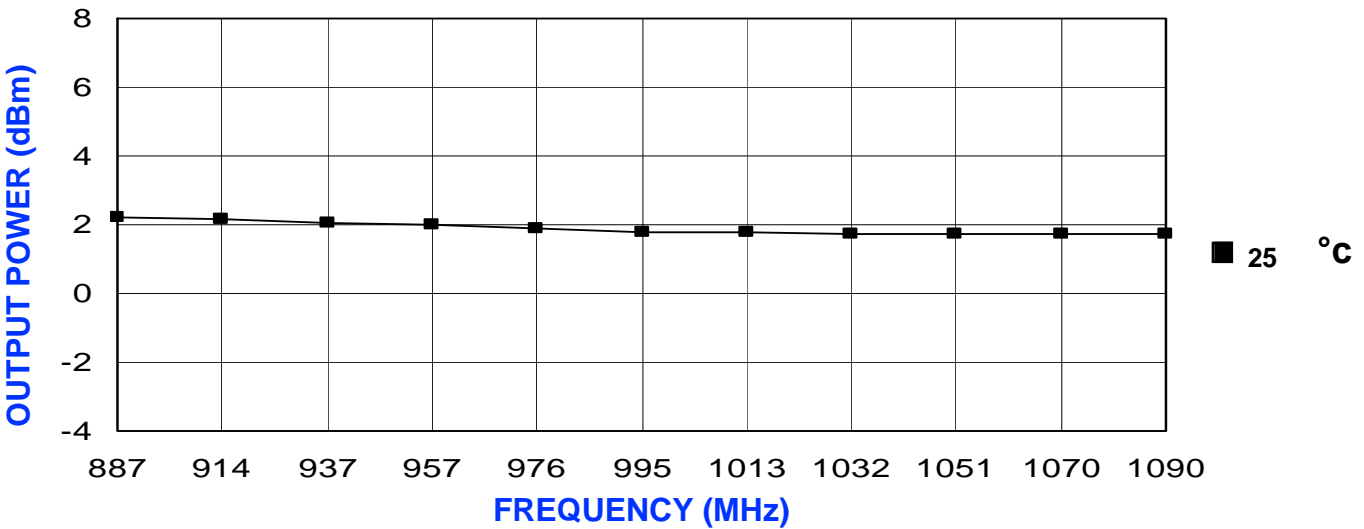
**NOTES:**

Reference Oscillator Signal: 5 MHz <math>f\_{osc}</math> <math>< 40</math> MHz  
 Frequency Synthesizer: National Semiconductor - LMX2316

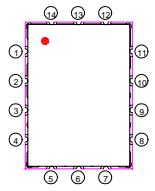
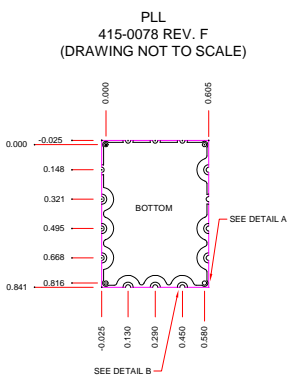
**VCO TUNING CURVE, typ.**



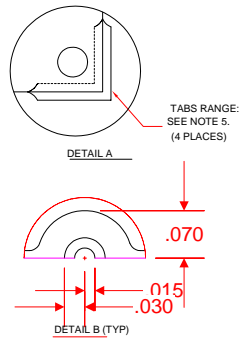
**VCO POWER CURVE, typ.**



**PHYSICAL DIMENSIONS**



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



- NOTES:
1. THE INSIDE RADIUS OF ALL .14 HALF HOLES AT THE PERIMETER OF THE BOARD ARE PLATED TO PROVIDE A SURFACE FOR THE ATTACHMENT OF THE P3 MODULE TO A PCB, IN 11 LOCATIONS, WITH PADS BEING USED FOR ELECTROMECHANICAL INTERFACE.
  2. 14 SOLDER LOCATIONS REQUIRED.
  3. THE SURFACE OF THE SHIELD IS UNPLATED AND MAY BE SOLDERED TO THE SHIELD'S BASE METAL CONTACT TO PROVIDE A GROUND PLANE TO THE SHIELD AND ATTACHES TO 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