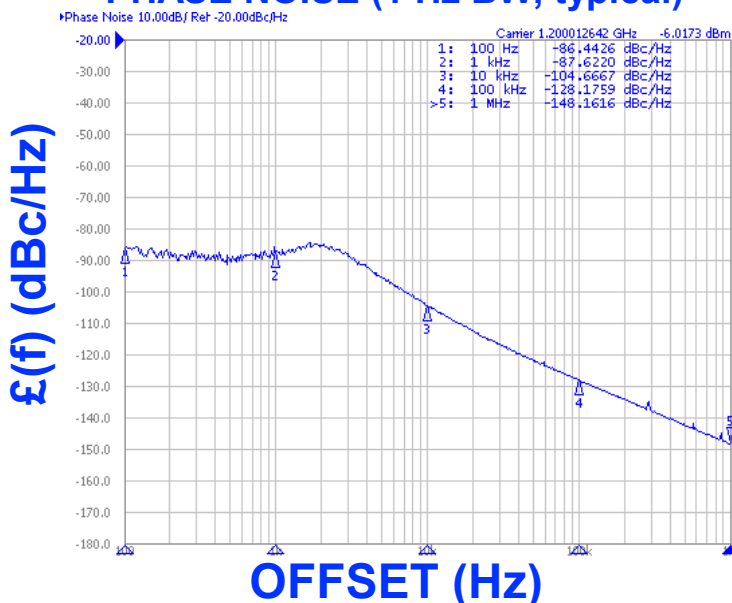


PHASE NOISE (1 Hz BW, typical)



FEATURES

- Frequency Range: 1200 - 1200 MHz
- Tuning Voltage: Vdc
- PLL-24 - Style Package

APPLICATIONS

- Basestations
- Satellite Communications
-

PERFORMANCE SPECIFICATIONS

	VALUE	UNITS
Oscillation Frequency Range	1200 - 1200	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-103	dBc/Hz
Harmonic Suppression (2nd, typ.)	-15	dBc
Tuning Voltage		Vdc
Tuning Sensitivity (avg.)	5000	MHz/V
Power Output	0±3	dBm
Load Impedance	50	Ω
Input Capacitance (max.)	1000	pF
Pushing	2	MHz/V
Pulling (14dB Return Loss, Any Phase)	2	MHz
Operating Temperature Range	0 to 60	°C
Package Style	PLL-24	

POWER SUPPLY REQUIREMENTS

Supply Voltage (Vcc, nom.)	5	Vdc
Supply Current (Icc, typ.)	33	mA

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

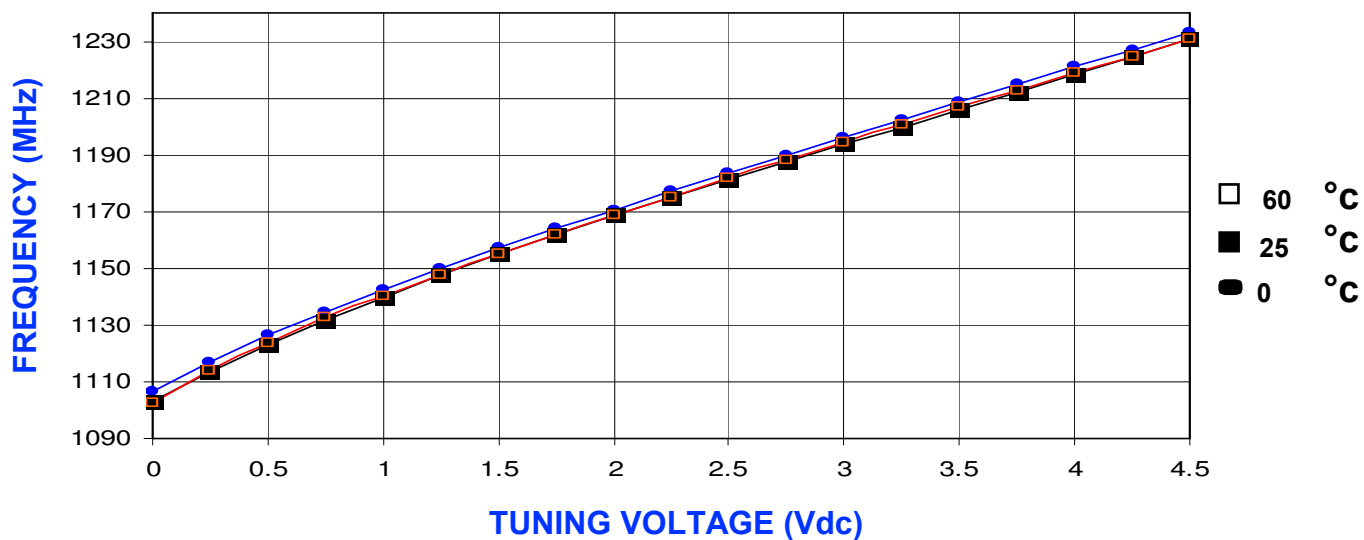
APPLICATION NOTES

- AN-100/1 : Mounting and Grounding of VCOs
- AN-102 : Proper Output Loading of VCOs
- AN-107 : How to Solder Z-COMM VCOs

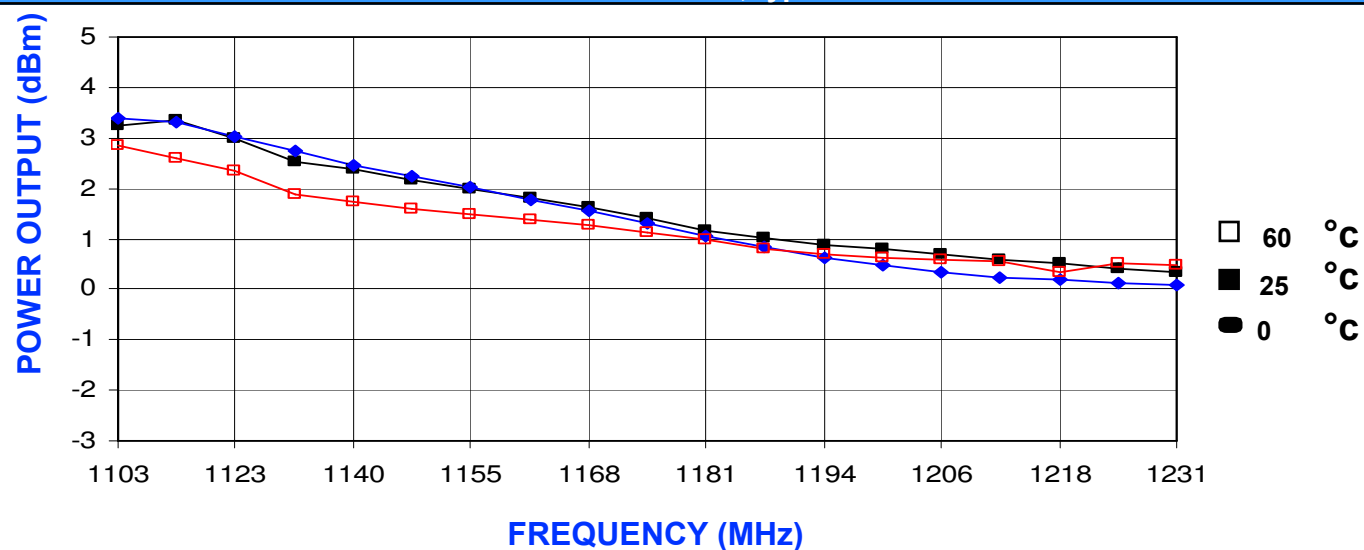
NOTES:

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

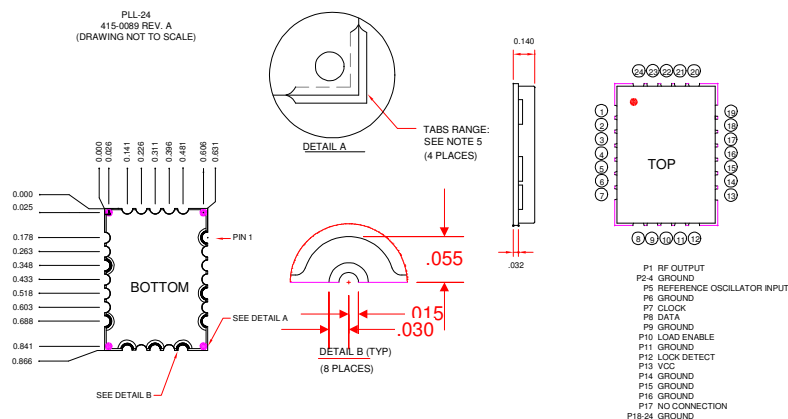
TUNING CURVE, typ.



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 LOOK DETECT
 P13 VCC
 P14 GROUND
 P15 GROUND
 P16 GROUND
 P17 NO CONNECTION
 P18-24 GROUND