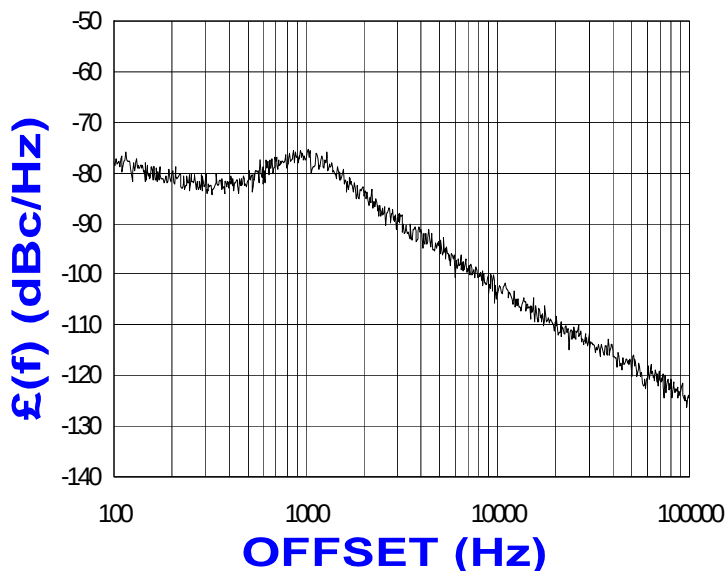




PHASE NOISE (1 Hz BW, typical)



FEATURES

- Frequency Range: 1126 - 1128 MHz
- Step Size: 250 KHz
- cPLL - Style Package

APPLICATIONS

- Fixed Wireless Broadband Equipment
- Point-to-Point Microwave Radio
- Satellite Communication Systems

PERFORMANCE SPECIFICATIONS

	VALUE	UNITS
Frequency Range	1126 - 1128	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-107	dBc/Hz
Harmonic Suppression (2nd, typ.)	-17	dBc
Sideband Spurs (typ.)	-70	dBc
Power Output	0±2	dBm
Load Impedance	50	Ω
Step Size	250	KHz
Charge Pump Output Current	5	μ A
Switching Speed (typ., adjacent channel)	2	mSec
Startup Lock Time (typ.)	5	mSec
Operating Temperature Range	-40 to 85	$^{\circ}$ C
Package Style	cPLL	

POWER SUPPLY REQUIREMENTS

Supply Voltage (Vcc, nom.)	5	Vdc
Supply Current (Icc, typ.)	45	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: $5 \text{ MHz} < f_{\text{osc}} < 100 \text{ MHz}$
 Frequency Synthesizer: Analog Devices - ADF4113

VCO TUNING CURVE, typ.

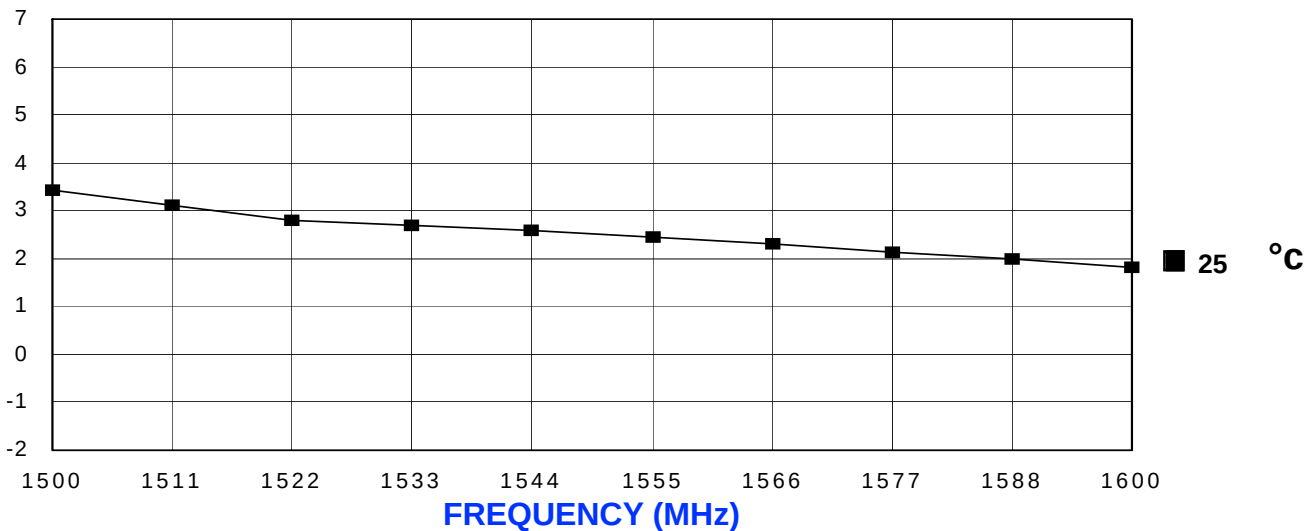
FREQUENCY (MHz)

□ °C
■ 25 °C
● °C

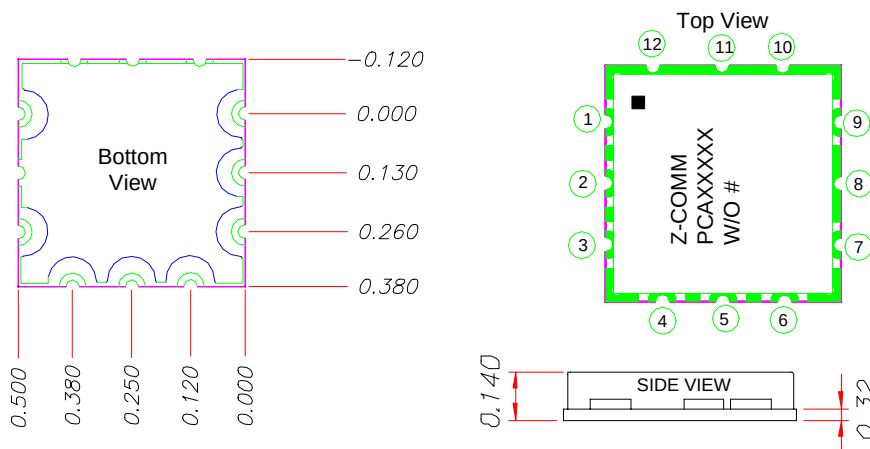
TUNING VOLTAGE (Vdc)

VCO POWER CURVE, typ.

OUTPUT POWER (dBm)



PHYSICAL DIMENSIONS



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 PLL Module to the motherboard. 5 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 brass.
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 REFERENCE OSCILLATOR INPUT
P3 CLOCK
P4 DATA
P5 LOAD ENABLE
P6 LOCK DETECT
P7 VCC
P8 GROUND
P9 NO CONNECTION
P10-12 GROUND