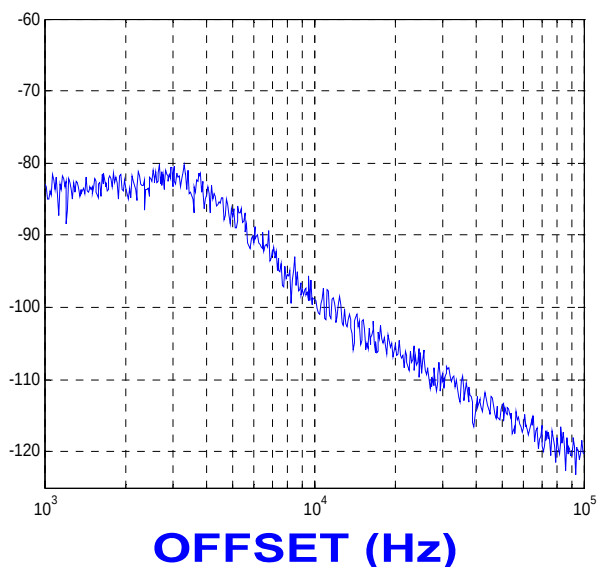


PHASE NOISE (1 Hz BW, typical)

$\mathcal{L}(f)$ (dBc/Hz)



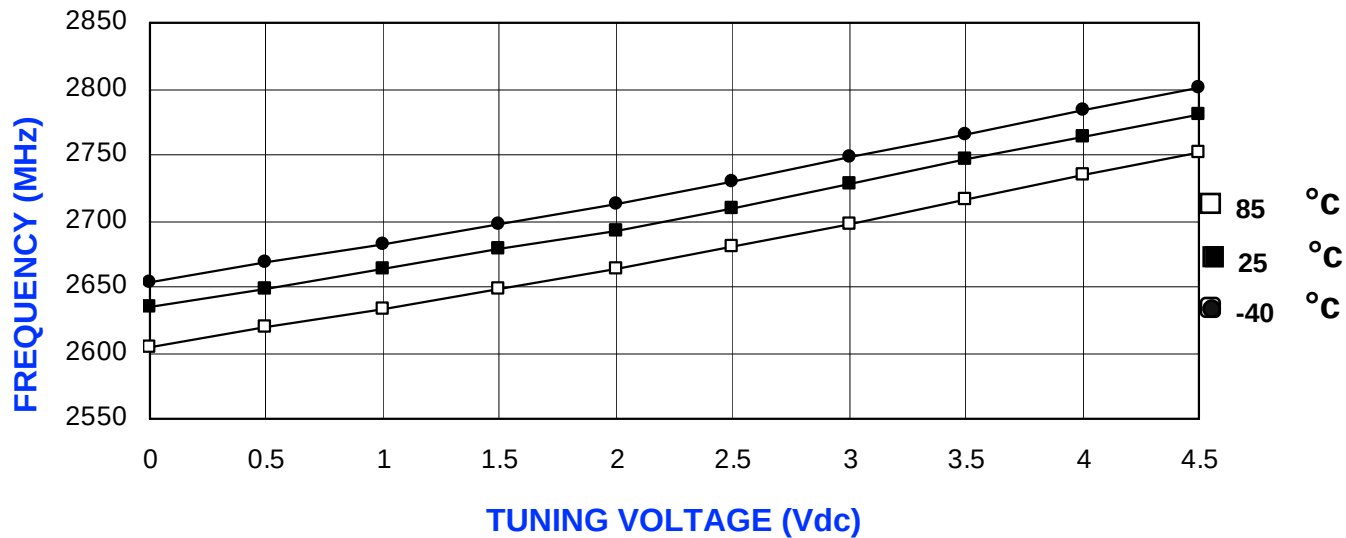
FEATURES
- Frequency Range: 2685 - 2715 MHz - Step Size: 1000 KHz - PLL - Style Package
APPLICATIONS
- Telecommunications - Satellite - Telemetry

PERFORMANCE SPECIFICATIONS	VALUE	UNITS
Frequency Range	2685 - 2715	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-100	dBc/Hz
Harmonic Suppression (2nd, typ.)	-25	dBc
Sideband Spurs (typ.)	-75	dBc
Power Output	1±2	dBm
Load Impedance	50	Ω
Step Size	1000	KHz
Charge Pump Output Current	1250	μ A
Switching Speed (typ., adjacent channel)	3	mSec
Startup Lock Time (typ.)	5	mSec
Operating Temperature Range	-40 to 85	$^{\circ}$ C
Package Style	PLL	
POWER SUPPLY REQUIREMENTS		
Supply Voltage (Vcc, nom.)	5	Vdc
Supply Current (Icc, typ.)	33	mA

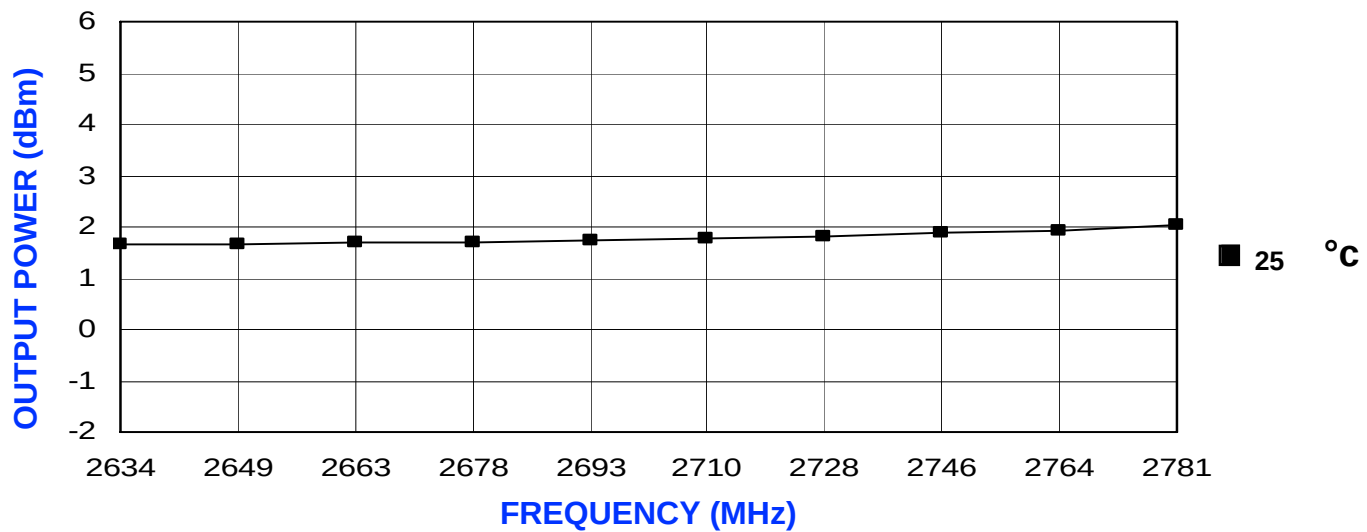
All specifications are typical unless otherwise noted and subject to change without notice.

APPLICATION NOTES
- AN-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: $5 \text{ MHz} < f_{\text{osc}} < 100 \text{ MHz}$ Prescaler: 32 Frequency Synthesizer: Analog Devices - ADF4106

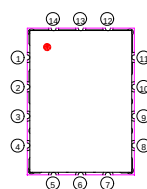
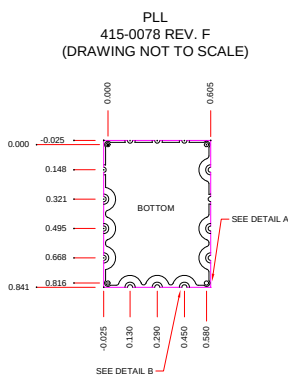
VCO TUNING CURVE, typ.



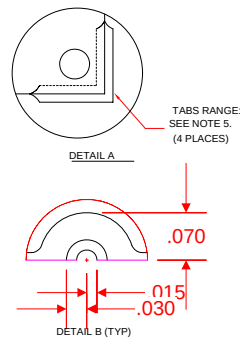
VCO POWER CURVE, typ.



PHYSICAL DIMENSIONS



P1 RF OUTPUT
P2 GROUND .032
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 HALF HOLES
A. THE PERIMETER OF THE BOARD ARE
PLATED TO PROVIDE A SURFACE FOR THE
ATTACHMENT OF THE BOARD TO THE PCB,
IN 11 LOCATIONS, WITH 3 PADS BEING
USED FOR ELECTROMECHANICAL INTERFACE.
14. THE TOP LAYER OF THE BOARD IS
2. THE SURFACE OF THE BOARD IS TIN PLATED
AND MAY BE SOLDERED TO THE SHEILD'S
BOTTOM METAL LAYER.
3. THE GROUND PLANE IS GROUND AND ATTACHES
TO GROUND TRACK ON THE UPPER SIDE OF
THE BOARD AND IS 0.010" WIDE BY 0.010"
4. UNLESS OTHERWISE NOTED ALL DIMENSIONS
ARE IN INCHES.
5. UNLESS OTHERWISE NOTED ALL TOLERANCES
ARE AS FOLLOWS:
TOLERANCES
.XXX = ± .010