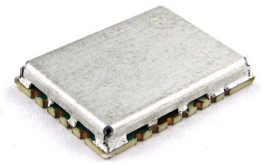
Z~Communications, Inc.
9939 Via Pasar • San Diego, CA 92126
TEL (858) 621-2700 FAX (858) 621-2722

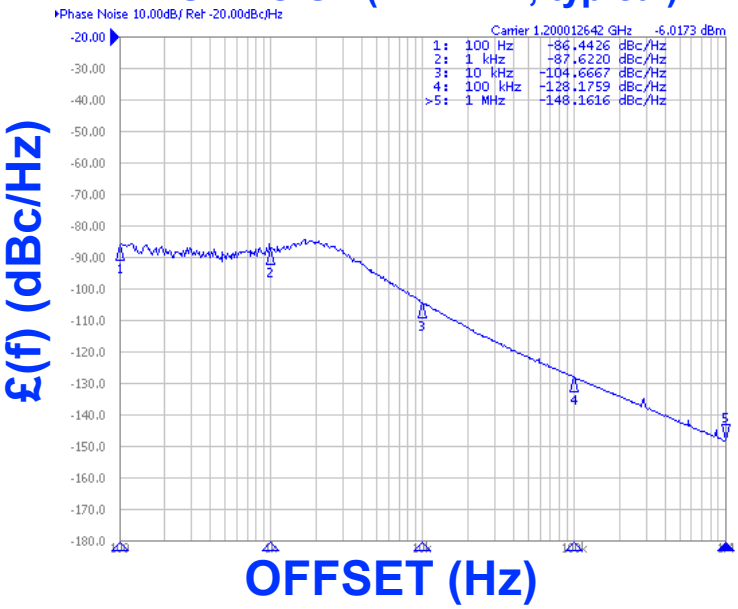
PSA1200A-LF

VOLTAGE CONTROLLED OSCILLATOR

Rev A1



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

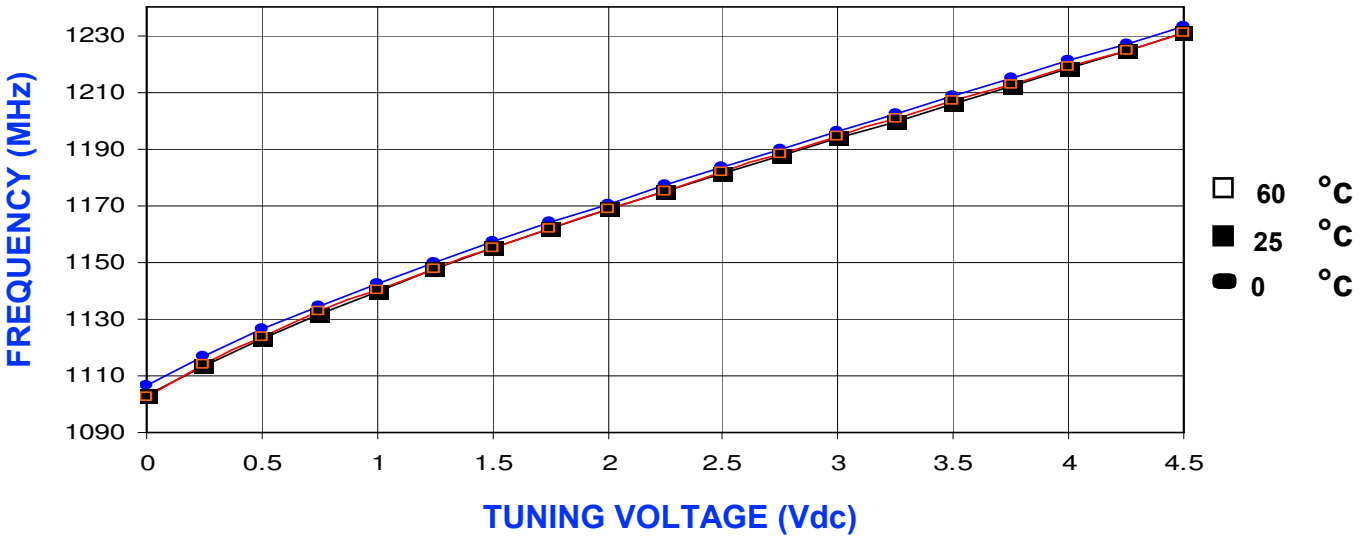
NOTES:

Reference Oscillator Signal: 5 MHz<f_{osc}<100 MHz

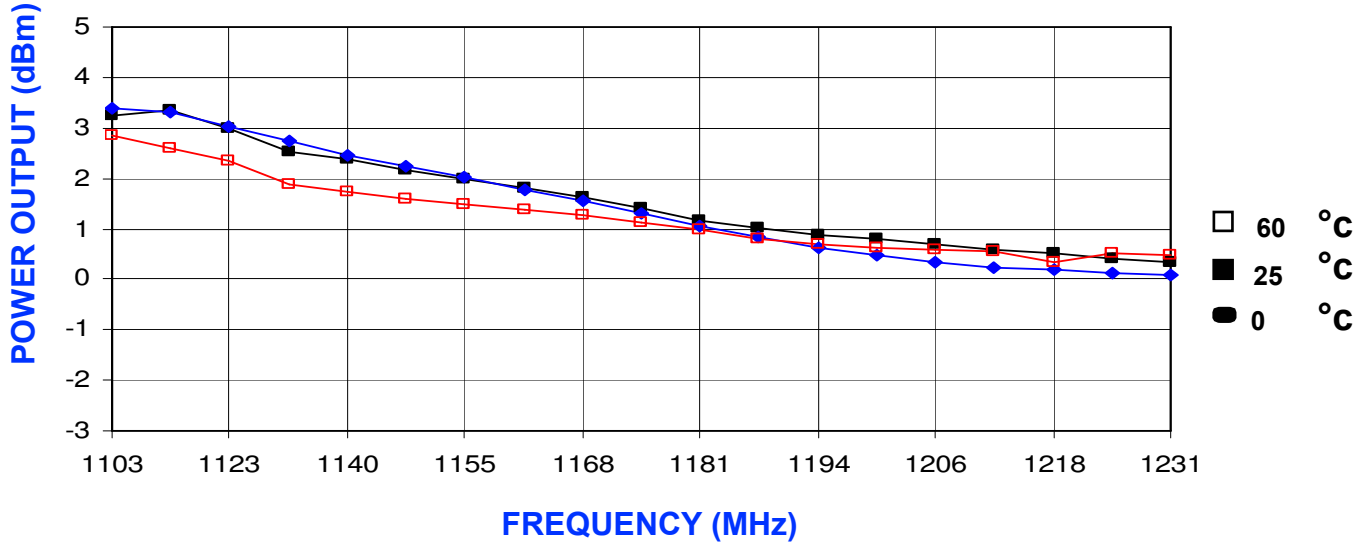
Frequency Synthesizer: Analog Devices - ADF4106

LOW COST - HIGH PERFORMANCE

TUNING CURVE, typ.



POWER CURVE, typ.



PHYSICAL DIMENSIONS