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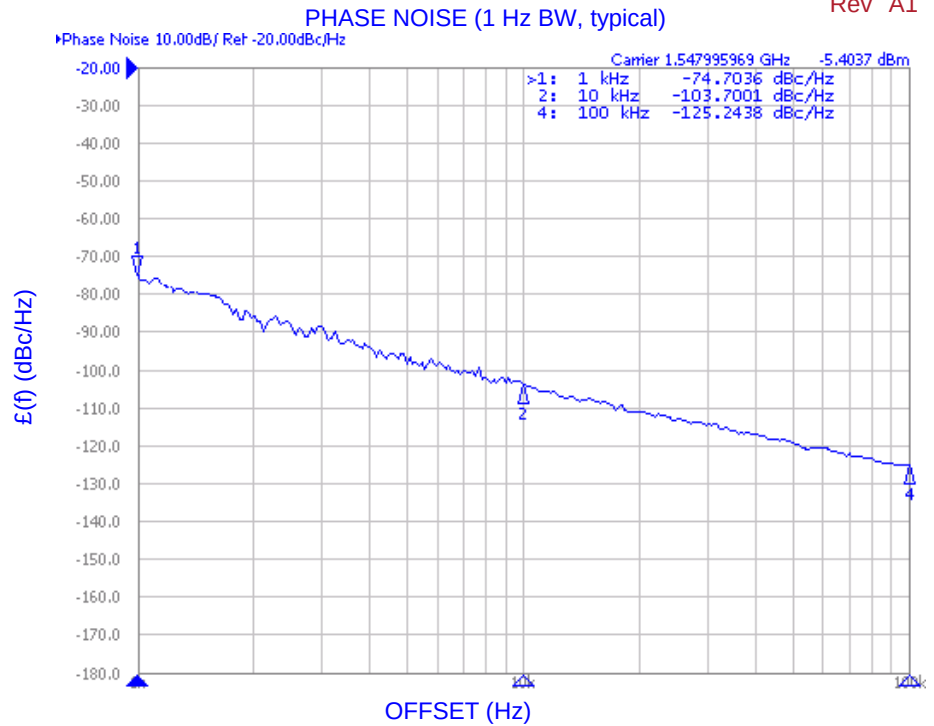
Voltage-Controlled Oscillator Surface Mount Module

Applications

- Mobile Communications
- Cellular Basestations
-

Application Notes

- AN-101: Mounting and Grounding
- AN-102: Output Loading
- AN-107: Manual Soldering



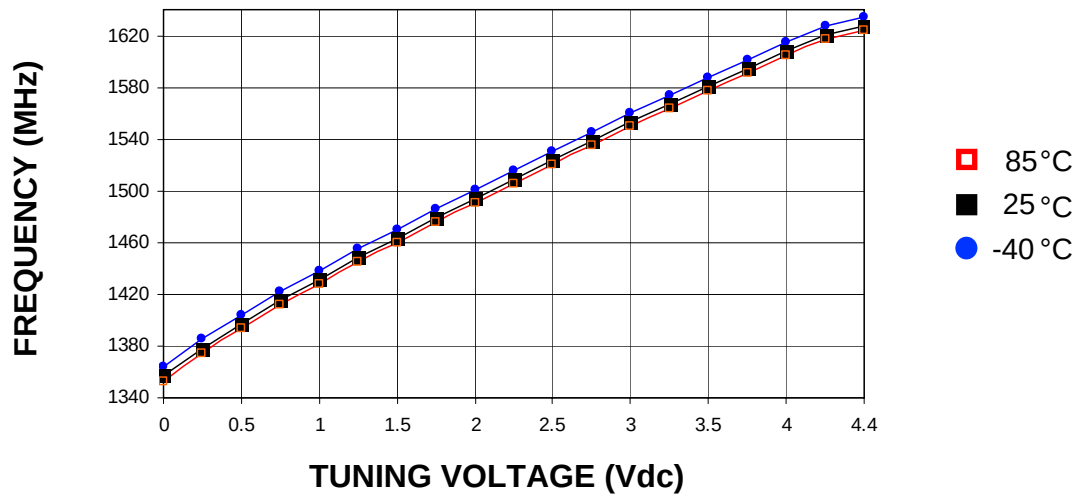
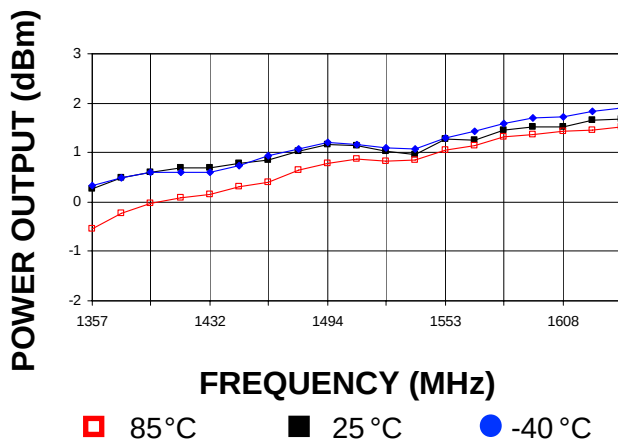
Performance Specifications

	Min	Typ	Max	Units
Oscillation Frequency Range	1511		1585	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-103		dBc/Hz
Harmonic Suppression (2nd)		-35		dBc
Tuning Voltage	2		4.4	Vdc
Tuning Sensitivity (avg.)		56		MHz/V
Power Output	-2	0	2	dBm
Load Impedance		50		Ω
Input Capacitance			50	pF
Pushing			4	MHz/V
Pulling (14 dB Return Loss, Any Phase)			.5	MHz
Operating Temperature Range	-40		85	$^{\circ}\text{C}$
Package Style		MINI-14S-L		

Power Supply Requirements

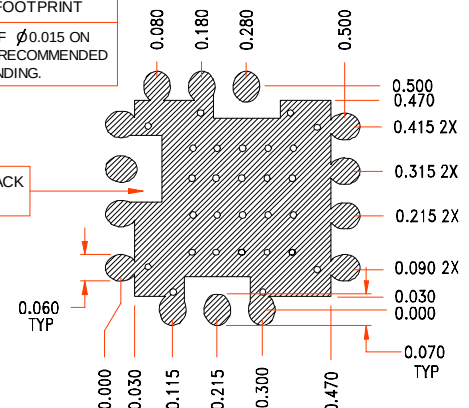
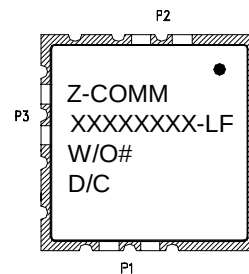
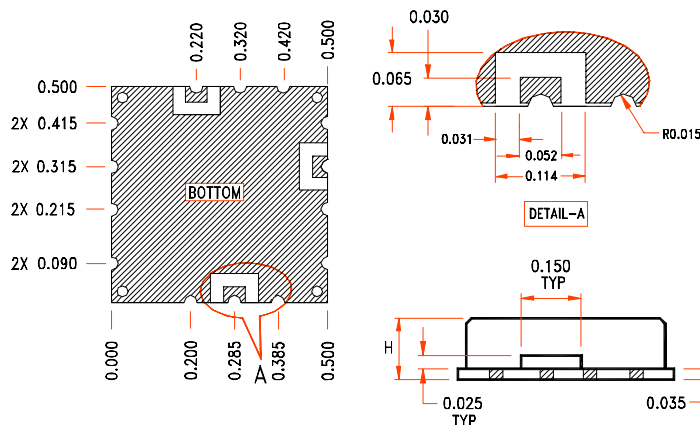
	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		5		Vdc
Supply Current (Icc)		19	23	mA

Additional Notes

Tuning Curve, typ.

Power Curve, typ.

Footprint
RECOMMENDED FOOTPRINT

SEVERAL HOLES OF $\phi 0.015$ ON GND. PLANE ARE RECOMMENDED FOR GOOD GROUNDING.

0.030 MIN. CUTBACK FROM LIVE PADS


Physical Dimensions

PIN CONFIGURATION

P1	Vt
P2	RF OUT
P3	Vcc
REST	GROUND

PACKAGE	H
MINI-14S	0.220
MINI-14S-LOW	0.160
MINI-14S-L	0.130

NOTE: ALL DIMENSIONS ARE IN INCHES
TOL: XXX: +/- 0.010

LFSuffix = RoHS Compliant. All specifications are subject to change without notice.