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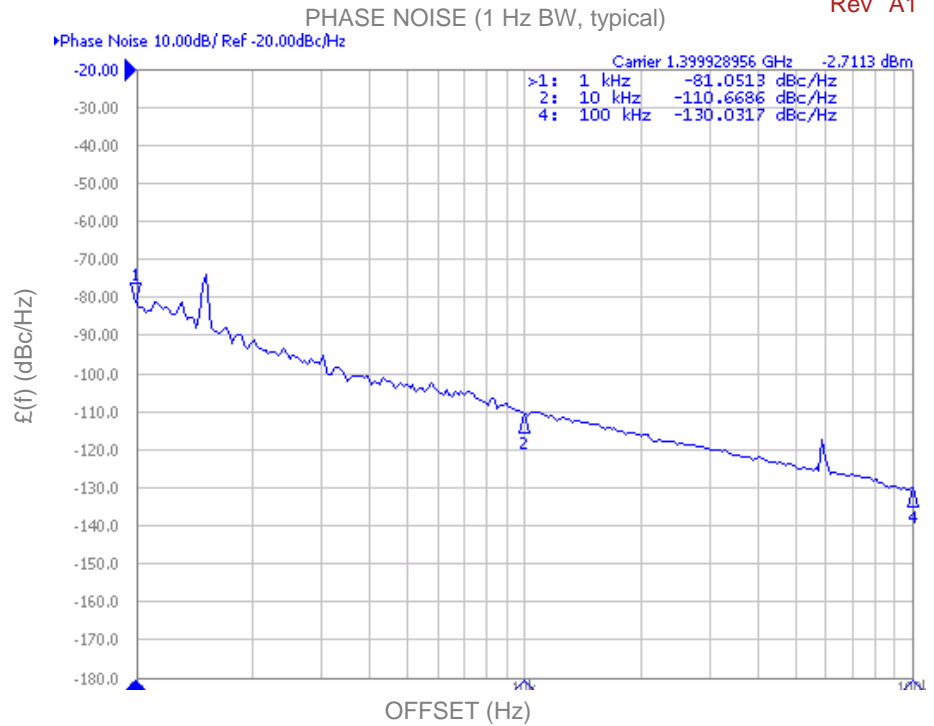
Voltage-Controlled Oscillator Surface Mount Module

Applications

- Satellite Communications
- Test Equipment
-

Application Notes

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



Performance Specifications	Min	Typ	Max	Units
Oscillation Frequency Range	1400		1500	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-110		dBc/Hz
Harmonic Suppression (2nd)		-18	-15	dBc
Tuning Voltage	0.5		5	Vdc
Tuning Sensitivity (avg.)		26		MHz/V
Power Output	0	3	6	dBm
Load Impedance		50		Ω
Input Capacitance			50	pF
Pushing			1	MHz/V
Pulling (12 dB Return Loss, Any Phase)			1	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)		27	32	mA

Additional Notes

Tuning Curve, typ.

FREQUENCY (MHz)

- 85 °C
- 25 °C
- -40 °C

TUNING VOLTAGE (Vdc)

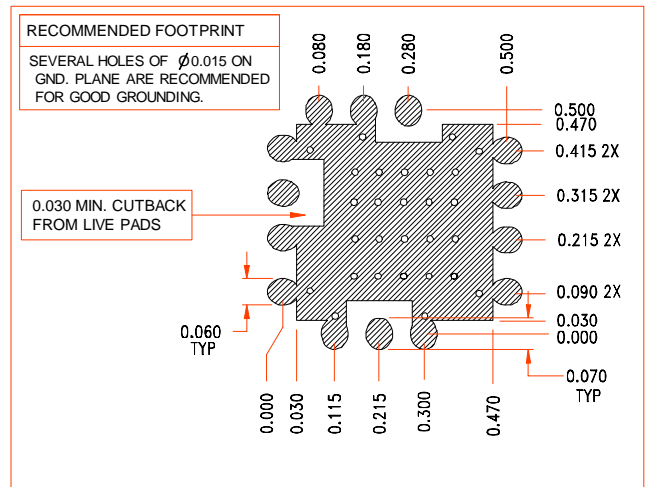
Power Curve, typ.

Footprint

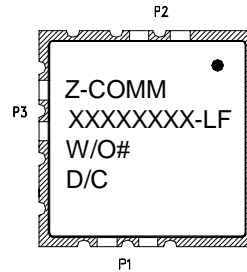
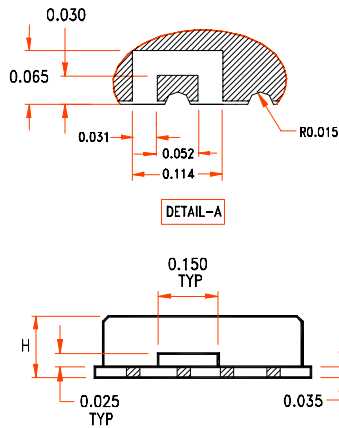
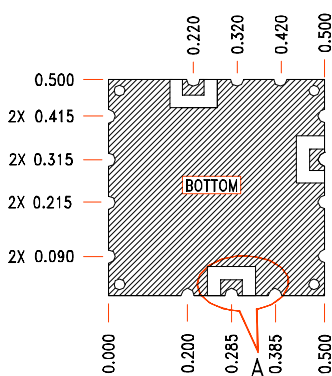
POWER OUTPUT (dBm)

FREQUENCY (MHz)

- 85 °C
- 25 °C
- -40 °C



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.