V910ME05

Rev A1

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Voltage-Controlled Oscillator
Surface Mount Module

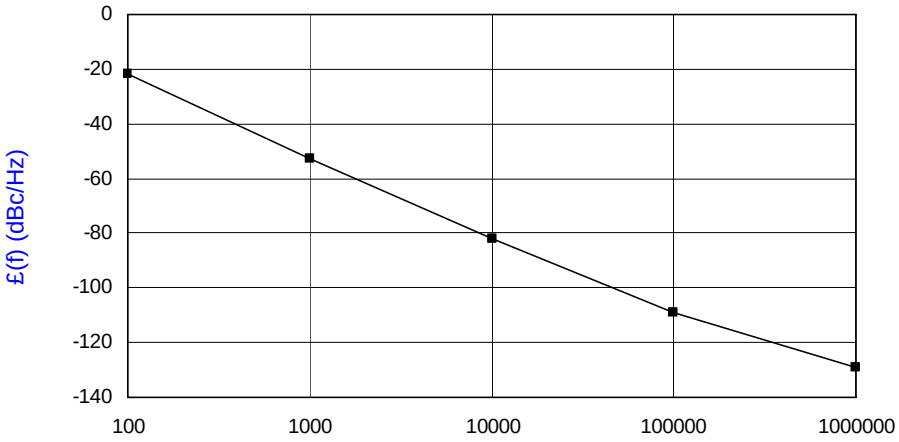
Applications

- Microwave Radios
- Satellite Communications
- Direct Broadcast

Application Notes

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

PHASE NOISE (1 Hz BW, typical)



Performance Specifications	Min	Typ	Max	Units
Oscillation Frequency Range	4020		4330	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-86		dBc/Hz
Harmonic Suppression (2nd)		-27	-25	dBc
Tuning Voltage	1.5		11	Vdc
Tuning Sensitivity (avg.)		46		MHz/V
Power Output	-2	1	4	dBm
Load Impedance		50		Ω
Input Capacitance			25	pF
Pushing			8	MHz/V
Pulling (14 dB Return Loss, Any Phase)			12	MHz
Operating Temperature Range	-35		80	°C
Package Style		MINI-14S-L		

Power Supply Requirements	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		5		Vdc
Supply Current (Icc)		26	30	mA

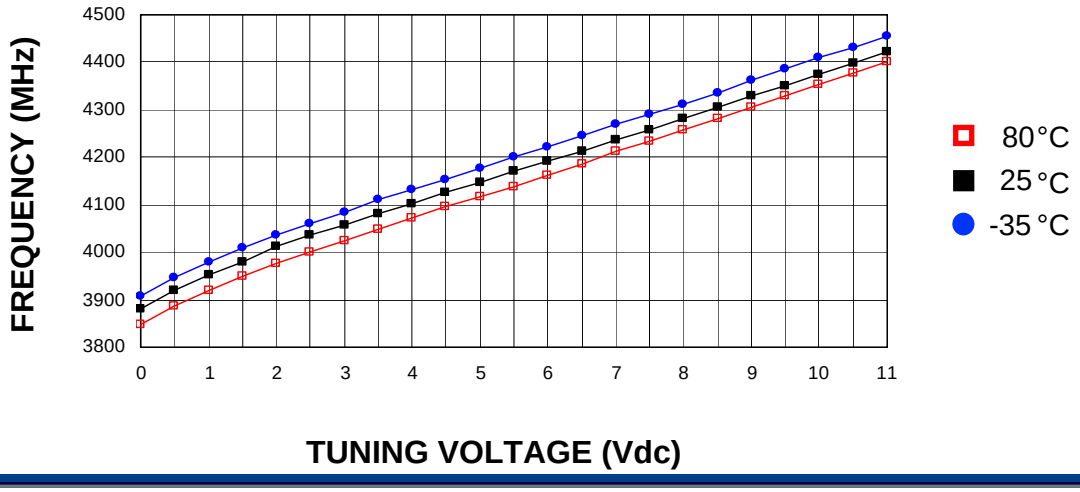
Additional Notes

Phase Noise @ 100 kHz offset (1 Hz BW, typ.): -109 dBc/Hz

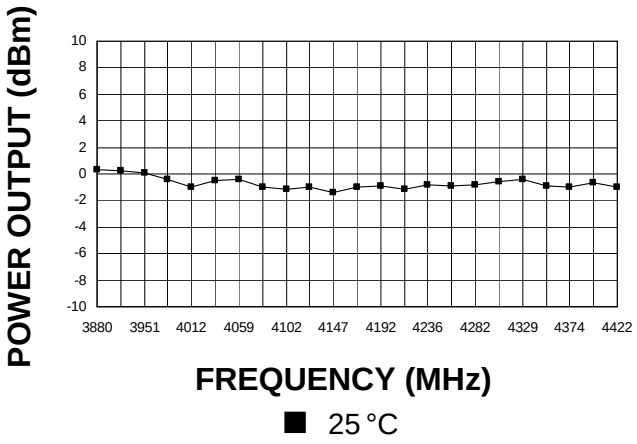
LFSuffix = RoHS Compliant. All specifications are subject to change without notice.

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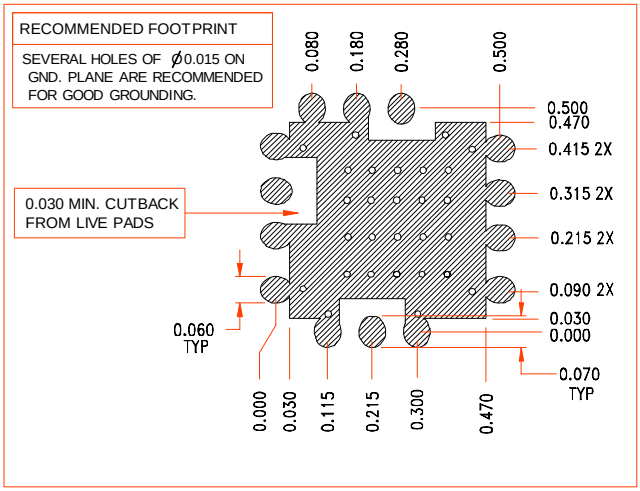
Tuning Curve, typ.



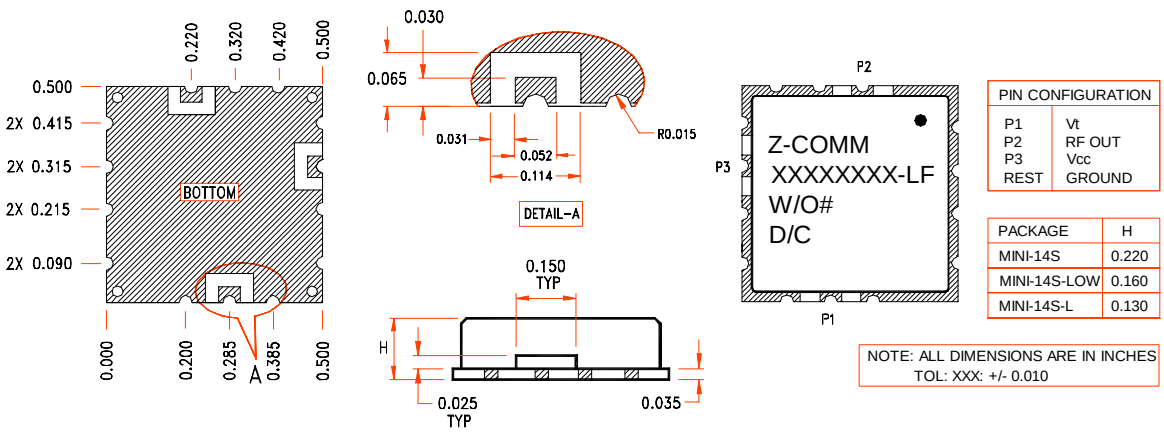
Power Curve, typ.



Footprint



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

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