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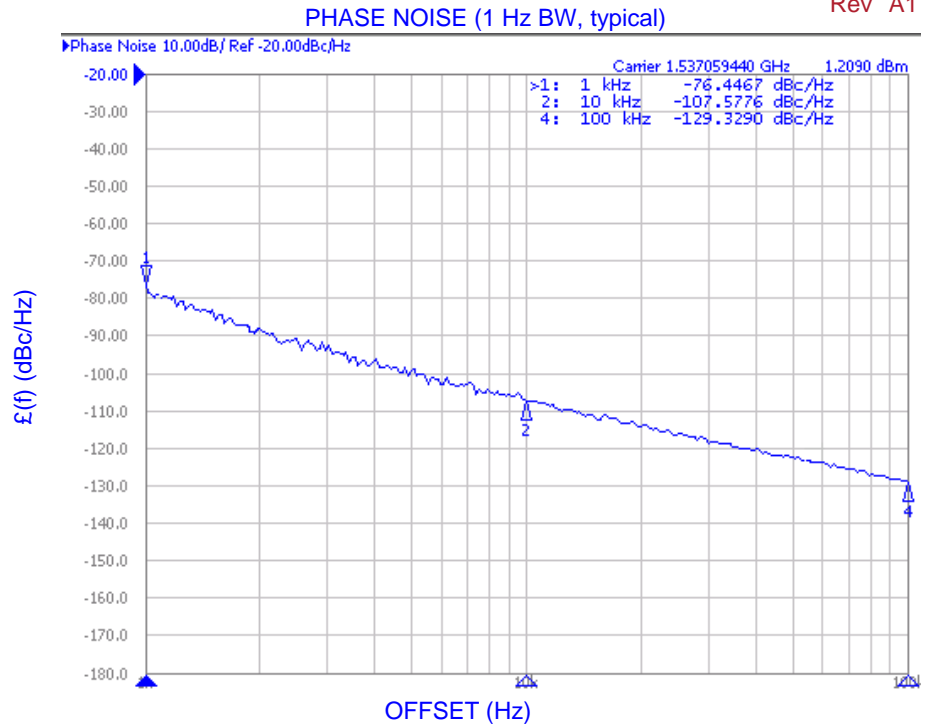
Voltage-Controlled Oscillator Surface Mount Module

Applications

- Digital Radios
- Basestations
- Radar

Application Notes

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



Performance Specifications

	Min	Typ	Max	Units
Oscillation Frequency Range	1487		1587	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-108		dBc/Hz
Harmonic Suppression (2nd)		-17	-12	dBc
Tuning Voltage	0.25		4.5	Vdc
Tuning Sensitivity (avg.)		36		MHz/V
Power Output	4	6.5	9	dBm
Load Impedance		50		Ω
Input Capacitance			100	pF
Pushing			2	MHz/V
Pulling (14 dB Return Loss, Any Phase)			3	MHz
Operating Temperature Range	-40		85	$^{\circ}\text{C}$
Package Style		MINI-14S-L		

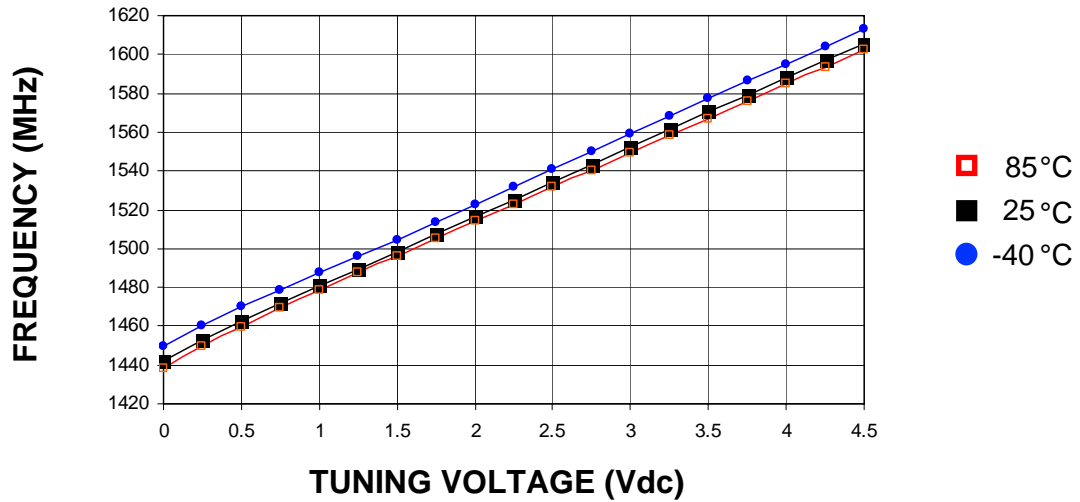
Power Supply Requirements

	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		5		Vdc
Supply Current (Icc)		24	29	mA

Additional Notes

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

Tuning Curve, typ.

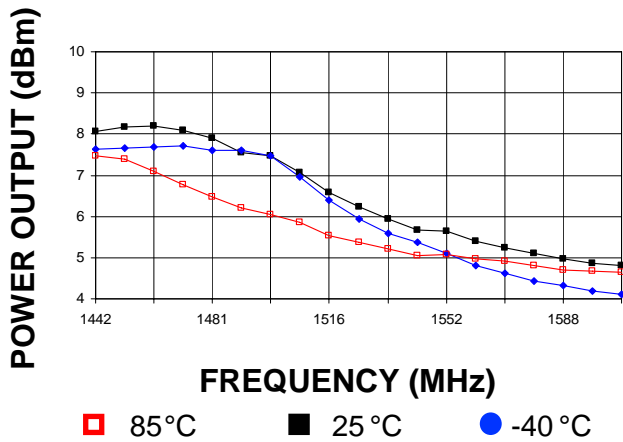


FREQUENCY (MHz)

TUNING VOLTAGE (Vdc)

- 85 °C
- 25 °C
- -40 °C

Power Curve, typ.

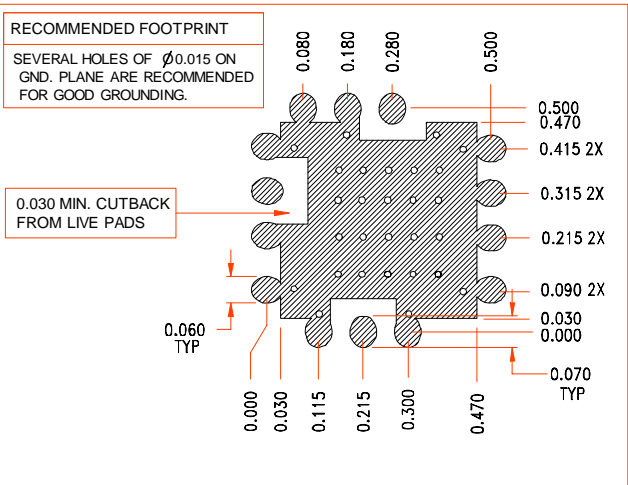


POWER OUTPUT (dBm)

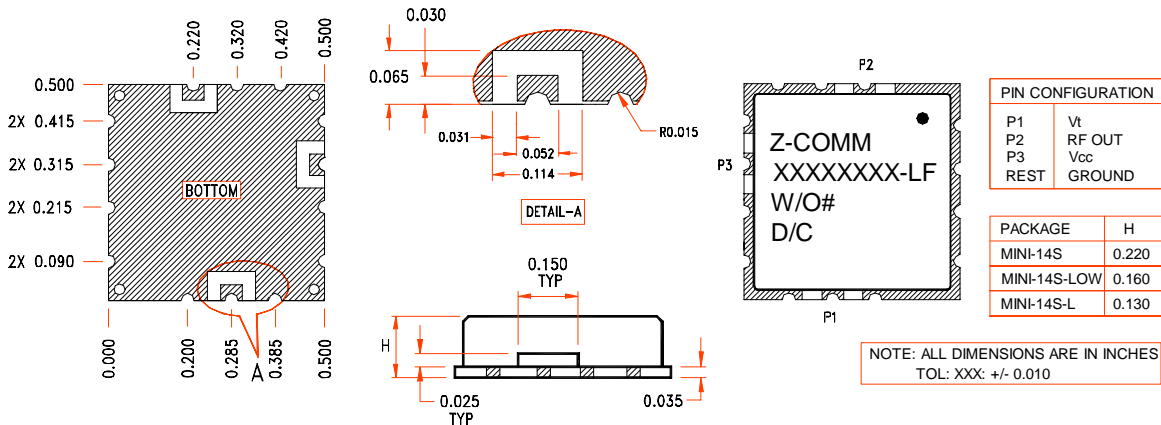
FREQUENCY (MHz)

- 85 °C
- 25 °C
- -40 °C

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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