

14118 Stowe Drive, Suite B | Poway, CA 92064
 TEL: (858) 621-2700 | FAX: (858) 486-1927
 URL: www.zcomm.com
 EMAIL: applications@zcomm.com

Voltage-Controlled Oscillator Surface Mount Module

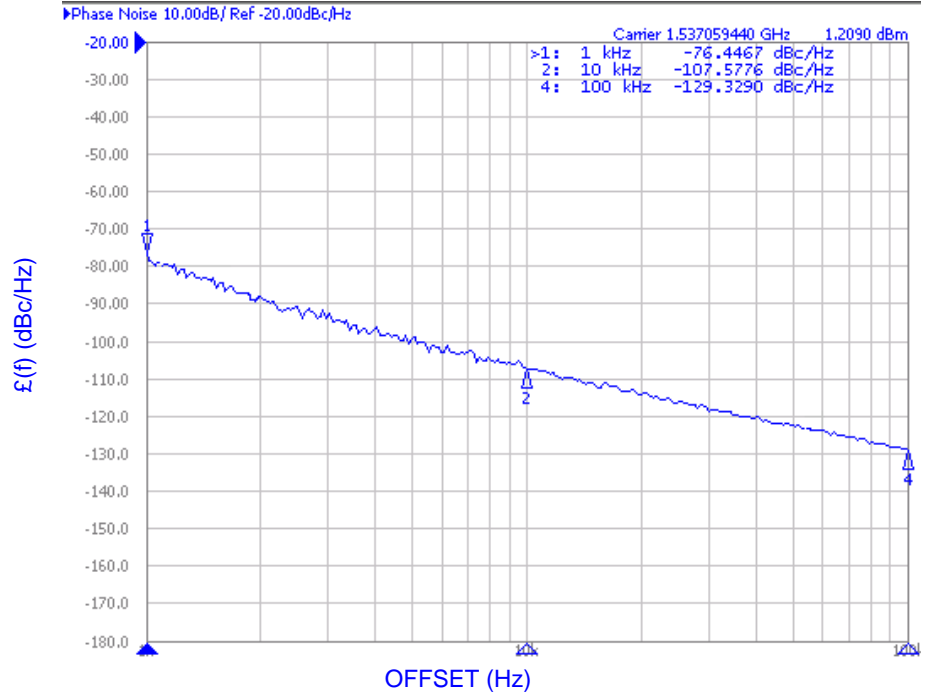
Applications

- Digital Radios
- Basestations
- Radar

Application Notes

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

PHASE NOISE (1 Hz BW, typical)



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	2	4.5	7	dBm
Load Impedance		50		Ω
Input Capacitance			100	pF
Pushing			2	MHz/V
Pulling (12 dB Return Loss, Any Phase)			3	MHz
Operating Temperature Range	-40		85	$^{\circ}\text{C}$
Package Style	MINI-14S-L			

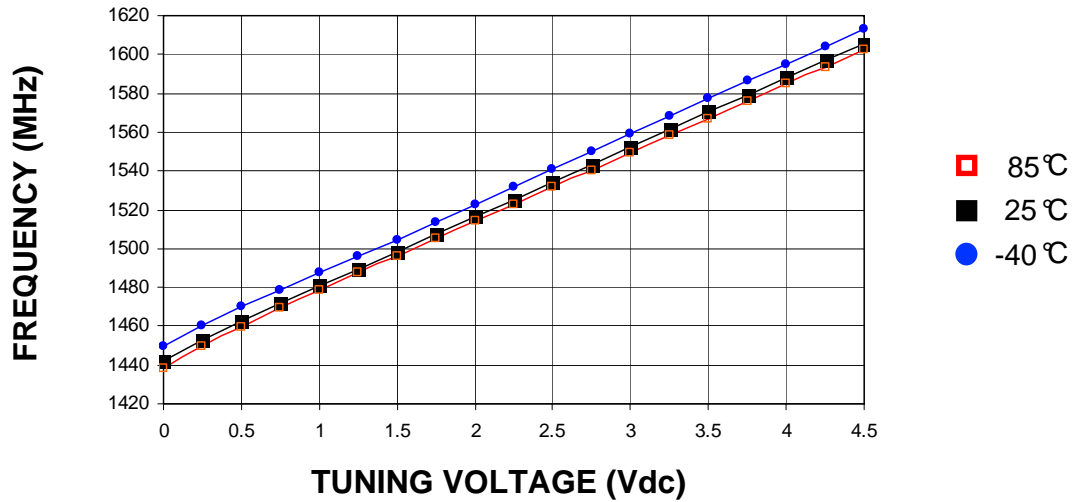
Power Supply Requirements

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

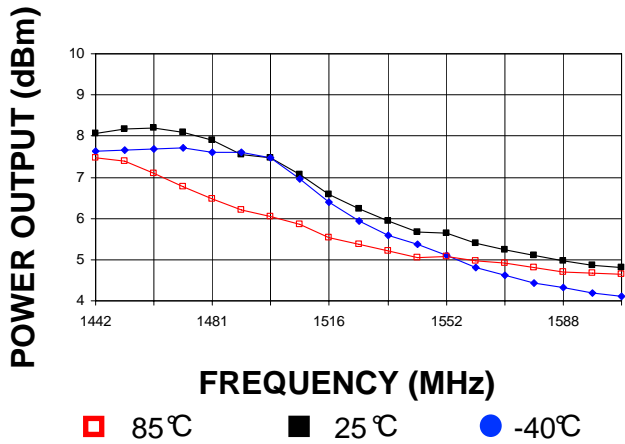
Additional Notes

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

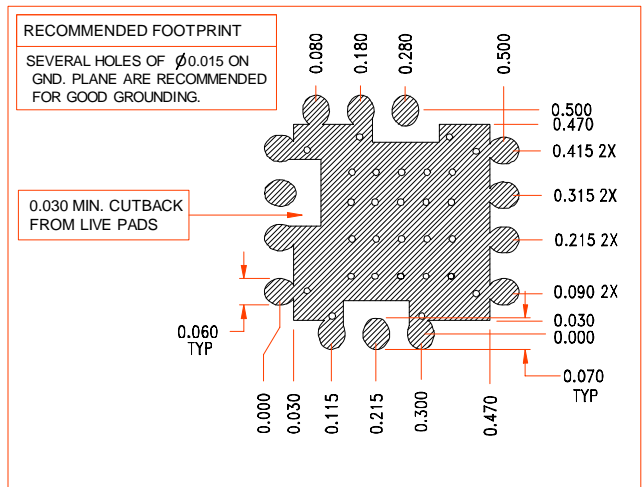
Tuning Curve, typ.



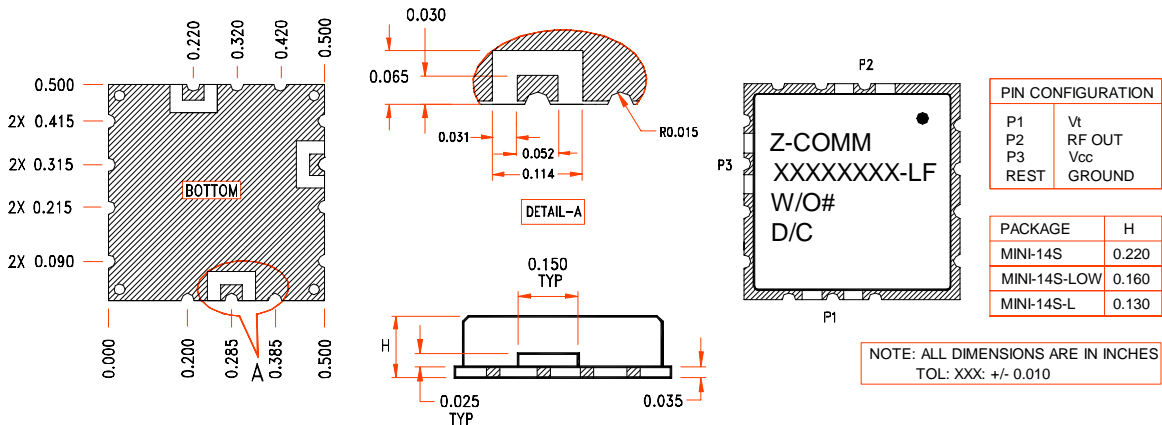
Power Curve, typ.



Footprint



Physical Dimensions



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