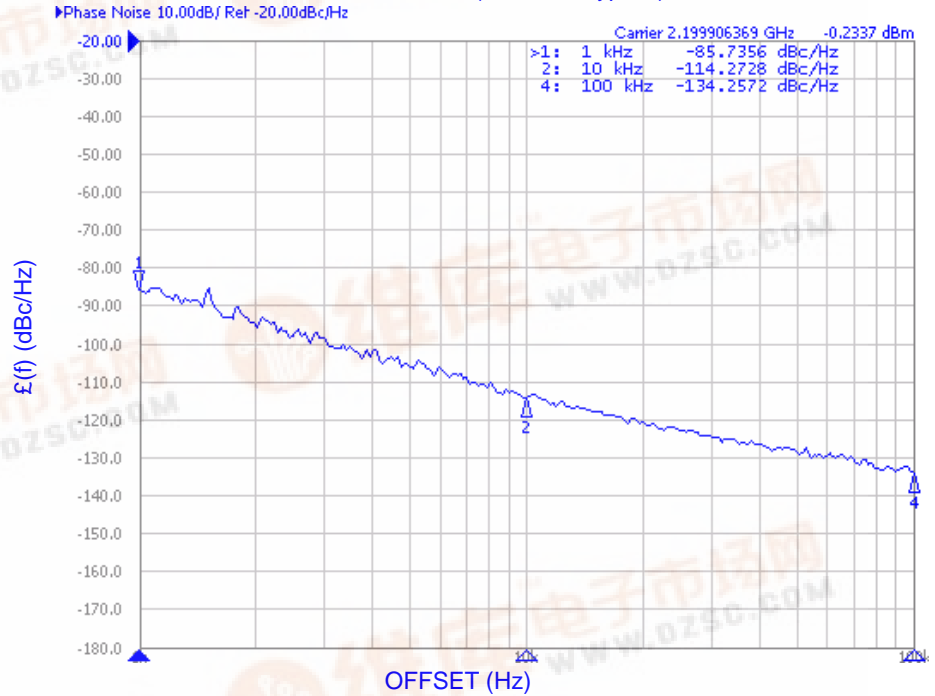


PHASE NOISE (1 Hz BW, typical)



9939 Via Pasar | San Diego, CA 92126  
 TEL: (858) 621-2700 | FAX: (858) 621-2722  
 URL: [www.zcomm.com](http://www.zcomm.com)  
 EMAIL: [applications@zcomm.com](mailto:applications@zcomm.com)

**Voltage-Controlled Oscillator  
 Surface Mount Module**

**Applications**

- Digital Radio Equipment
- Fixed Wireless Access
- Satellite Communication Systems

**Application Notes**

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

**Performance Specifications**

	Min	Typ	Max	Units
Oscillation Frequency Range	2190		2210	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-112		dBc/Hz
Harmonic Suppression (2nd)		-13	-8	dBc
Tuning Voltage	0.5		4.5	Vdc
Tuning Sensitivity (avg.)		15		MHz/V
Power Output	1	3.5	6	dBm
Load Impedance		50		$\Omega$
Input Capacitance			50	pF
Pushing			1	MHz/V
Pulling (14 dB Return Loss, Any Phase)			1	MHz
Operating Temperature Range	-40		85	$^{\circ}\text{C}$
Package Style		MINI-16-SM		

**Power Supply Requirements**

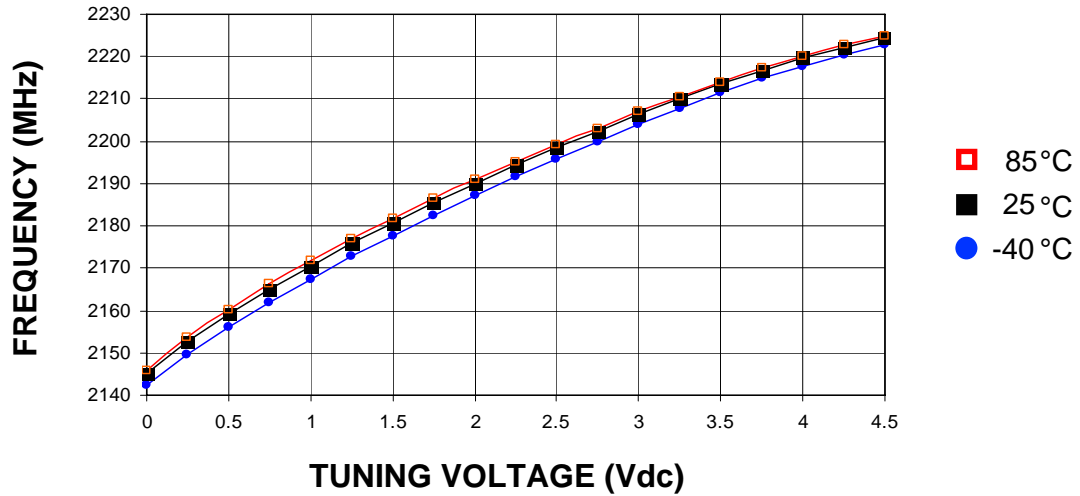
	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		5		Vdc
Supply Current (Icc)		23	27	mA

**Additional Notes**

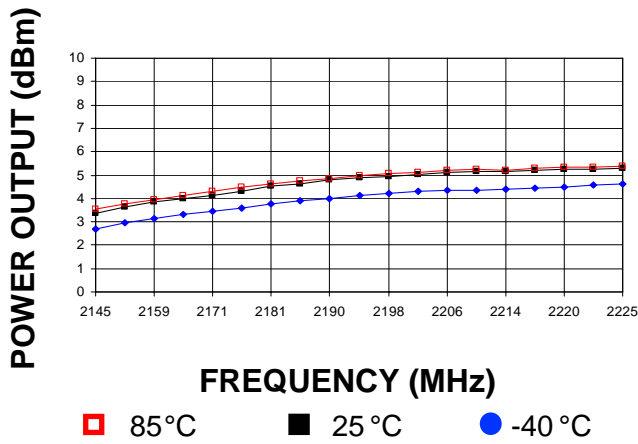
LFSuffix = RoHS Compliant. All specifications are subject to change without notice.



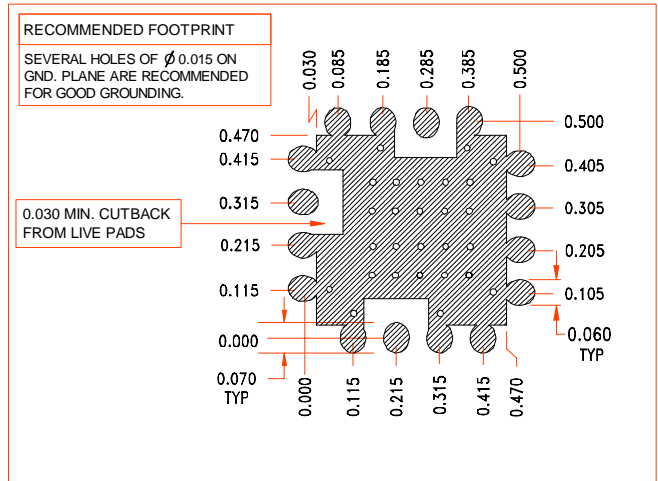
Tuning Curve, typ.



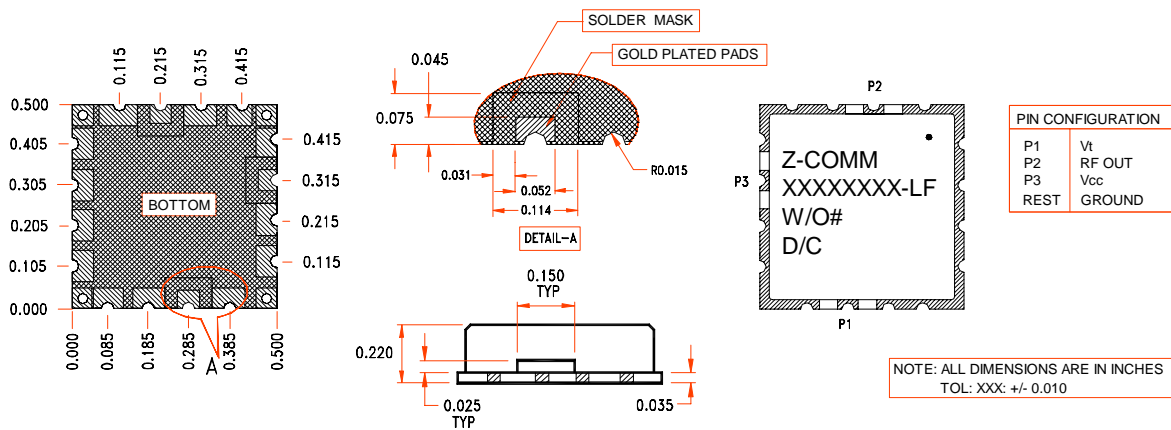
Power Curve, typ.



Footprint



Physical Dimensions



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