

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

### Voltage-Controlled Oscillator Surface Mount Module

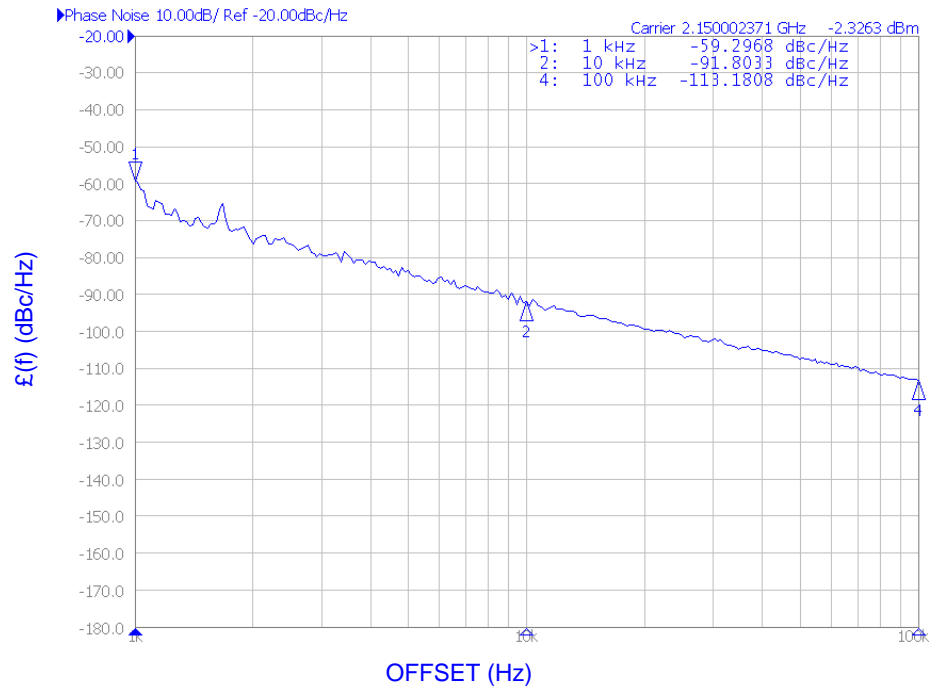
#### Applications

- Digital Radios
- Earthstations
- Satellite Modems

#### Application Notes

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

#### PHASE NOISE (1 Hz BW, typical)



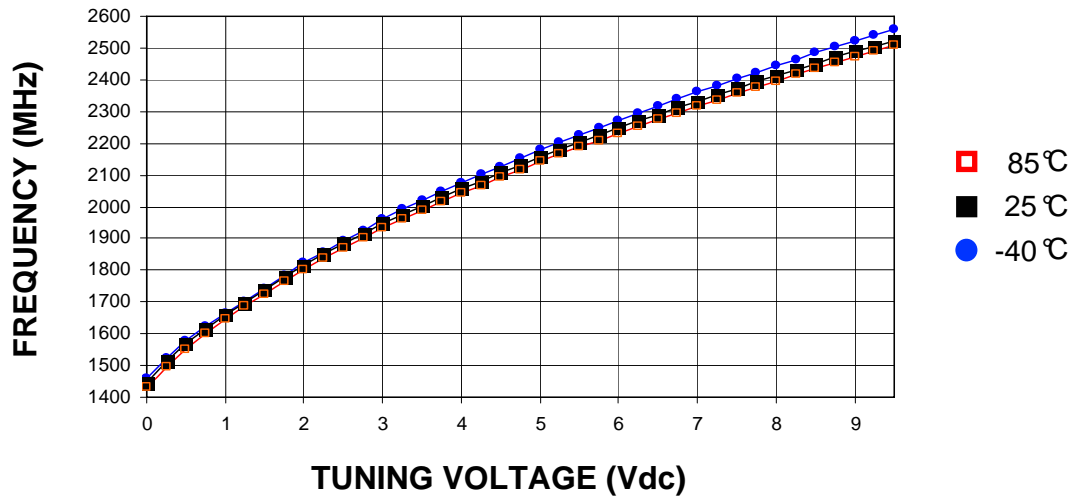
Performance Specifications	Min	Typ	Max	Units
Oscillation Frequency Range	1820		2480	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-91		dBc/Hz
Harmonic Suppression (2nd)		-19	-6	dBc
Tuning Voltage	0.5		9.5	Vdc
Tuning Sensitivity (avg.)		98		MHz/V
Power Output	1	4.5	8	dBm
Load Impedance		50		$\Omega$
Input Capacitance			50	pF
Pushing			5	MHz/V
Pulling (12 dB Return Loss, Any Phase)			18	MHz
Operating Temperature Range	-40		85	$^{\circ}\text{C}$
Package Style	MINI-14H			

Power Supply Requirements	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		10		Vdc
Supply Current (Icc)		13	16	mA

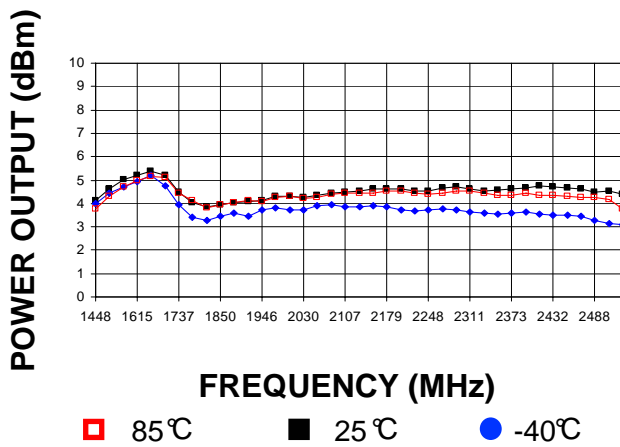
#### Additional Notes

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

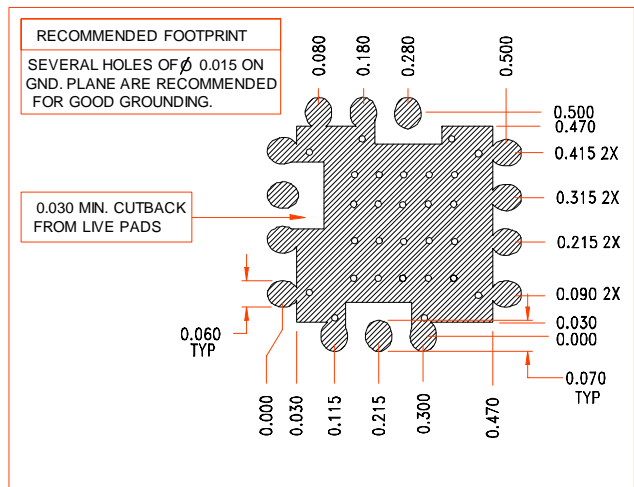
Tuning Curve, typ.



Power Curve, typ.



Footprint



Physical Dimensions



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