

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

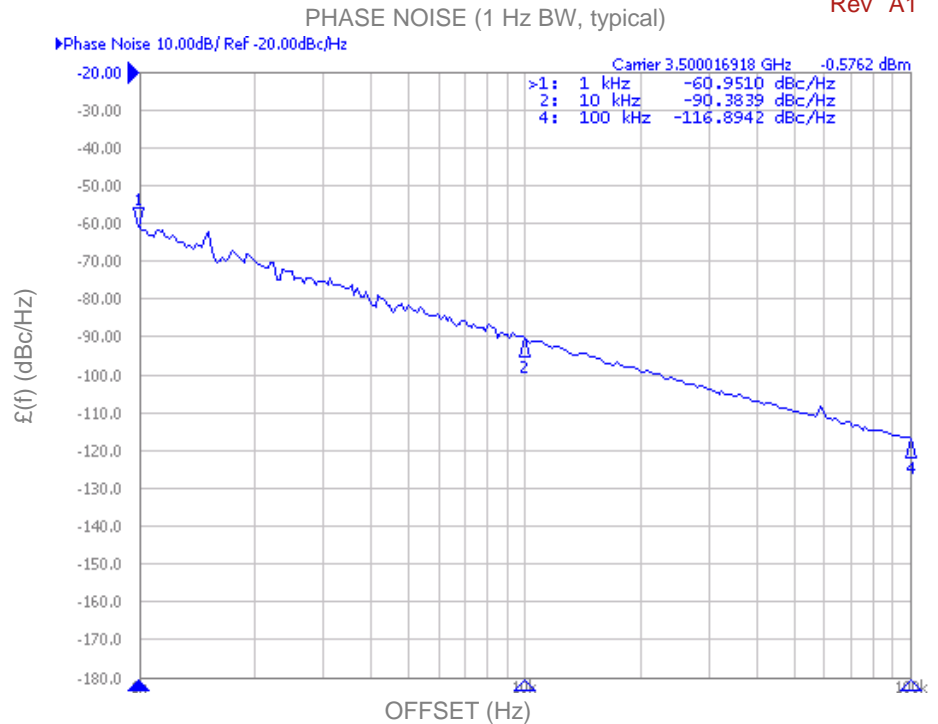
## Voltage-Controlled Oscillator Surface Mount Module

### Applications

- Test Instrumentation
- CATV Headend Equipment
- Satellite Communication Systems

### Application Notes

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

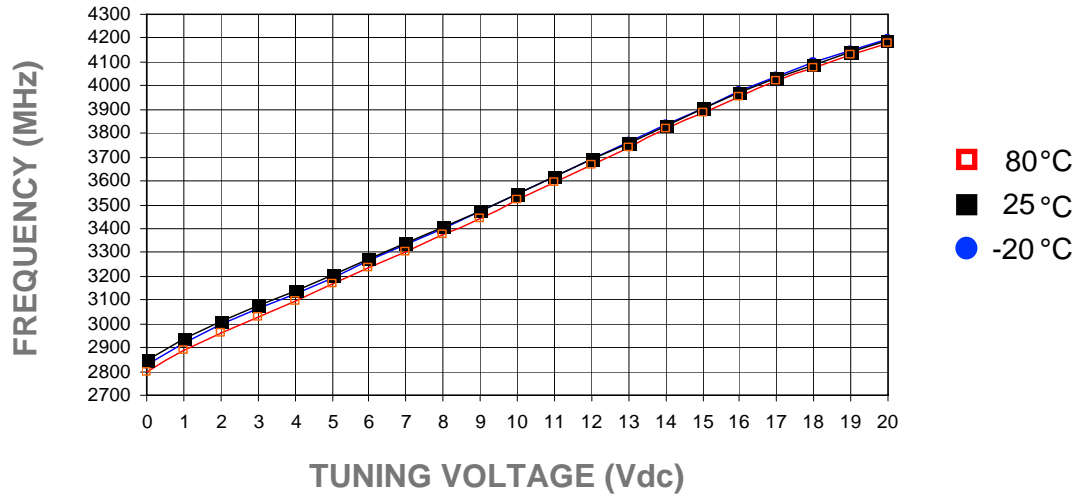


Performance Specifications	Min	Typ	Max	Units
Oscillation Frequency Range	2900		4100	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-89		dBc/Hz
Harmonic Suppression (2nd)		-17	-8	dBc
Tuning Voltage	0		20	Vdc
Tuning Sensitivity (avg.)		70		MHz/V
Power Output	3	7	11	dBm
Load Impedance		50		$\Omega$
Input Capacitance			50	pF
Pushing			9	MHz/V
Pulling (12 dB Return Loss, Any Phase)			7	MHz
Operating Temperature Range	-20		80	$^{\circ}\text{C}$
Package Style		MINI-16		

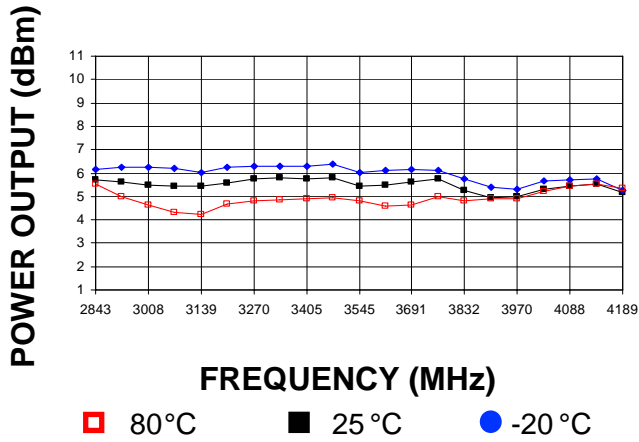
Power Supply Requirements	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		12		Vdc
Supply Current (Icc)		32	40	mA

### Additional Notes

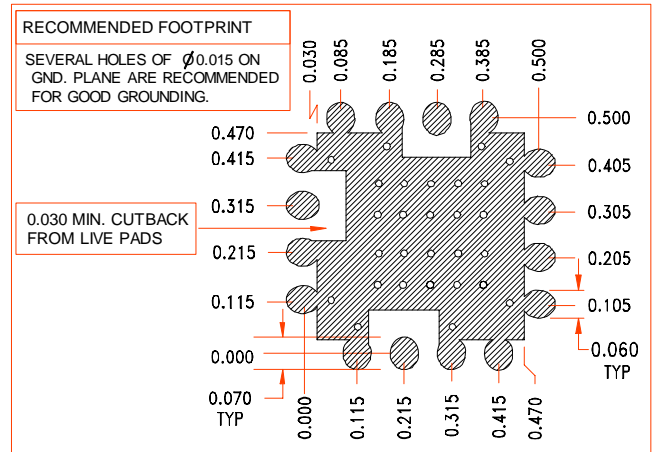
Tuning Curve, typ.



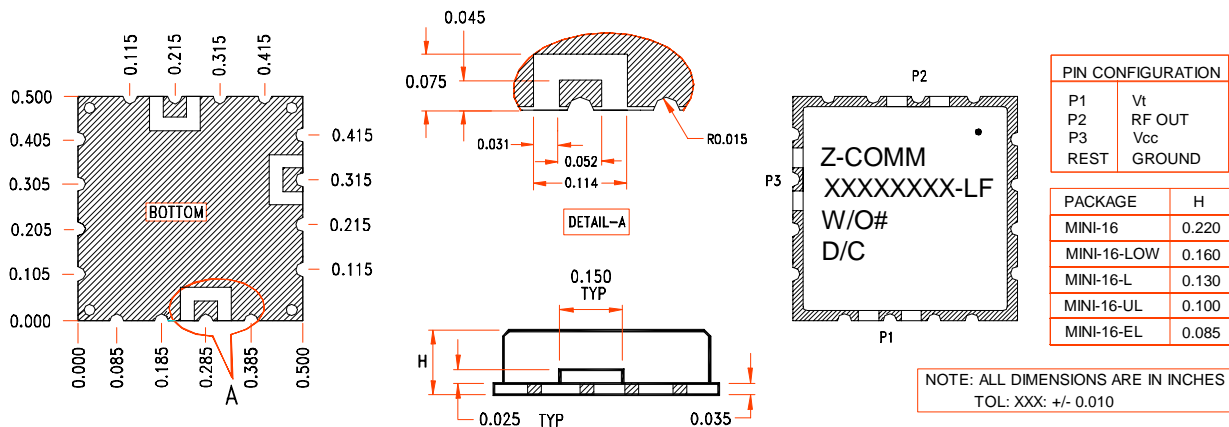
Power Curve, typ.



Footprint



Physical Dimensions



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