

TEL: (858) 621-2700  
 URL: www.zcomm.com  
 EMAIL: applications@zcomm.com

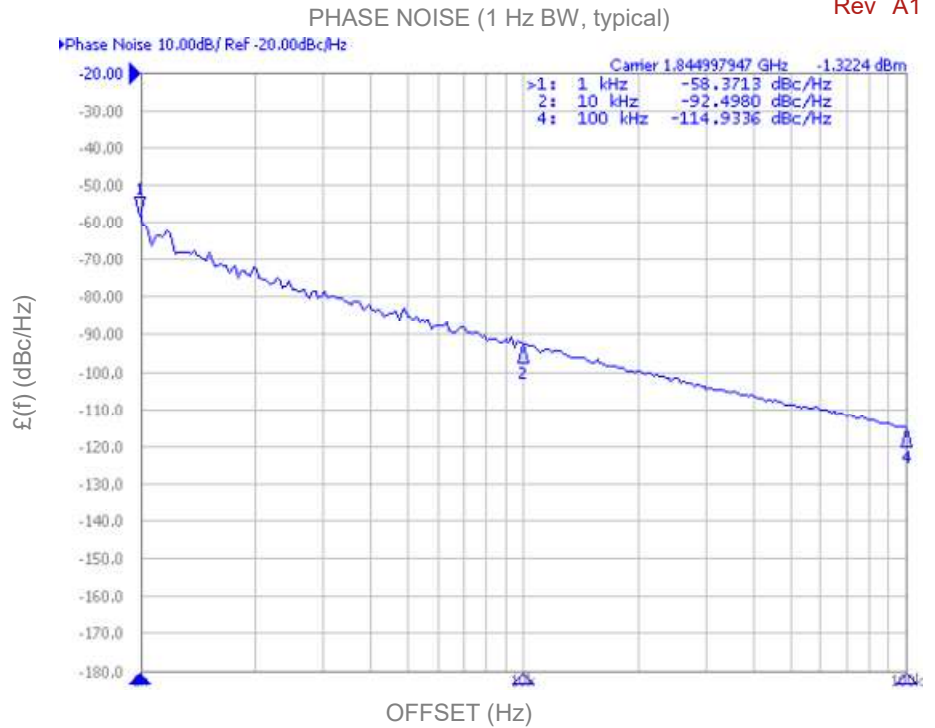
## Voltage-Controlled Oscillator Surface Mount Module

### Applications

Microwave Radio  
 Atomic Clock

### Application Notes

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

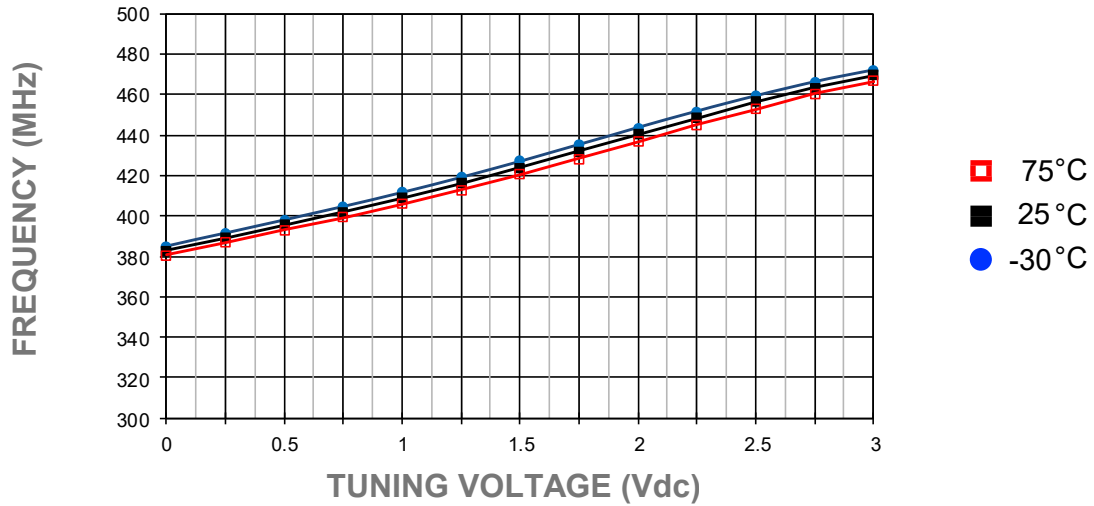


Performance Specifications	Min	Typ	Max	Units
Oscillation Frequency Range	400		450	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-95		dBc/Hz
Harmonic Suppression (2nd)		-12	-10	dBc
Tuning Voltage	0		3	Vdc
Tuning Sensitivity (avg.)		25		MHz/V
Power Output	-4	-5	3	dBm
Load Impedance		50		$\Omega$
Input Capacitance			400	pF
Pushing			3	MHz/V
Pulling (20. dB Return Loss, Any Phase)			1	MHz
Operating Temperature Range	-30		75	$^{\circ}\text{C}$
Package Style		SUB-L		

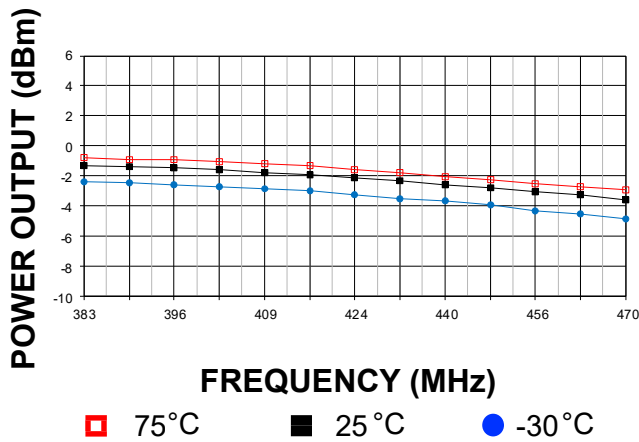
Power Supply Requirements	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		3		Vdc
Supply Current (Icc)		14	17	mA

### Additional Notes

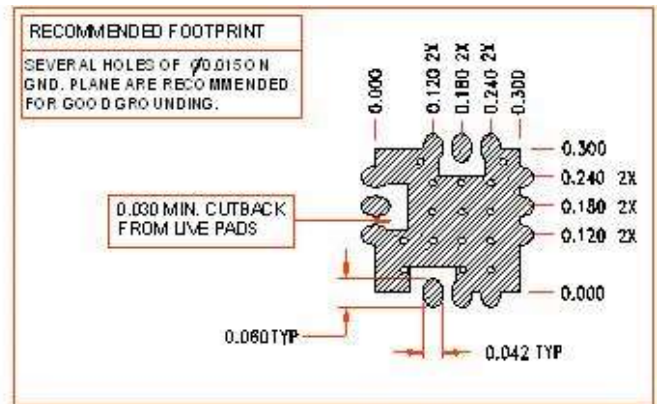
Tuning Curve, typ.



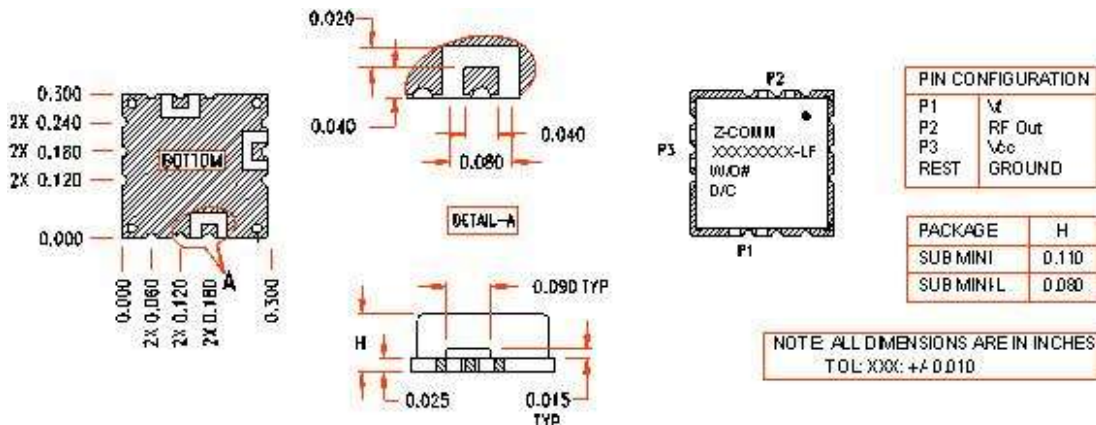
Power Curve, typ.



Footprint



Physical Dimensions



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