

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

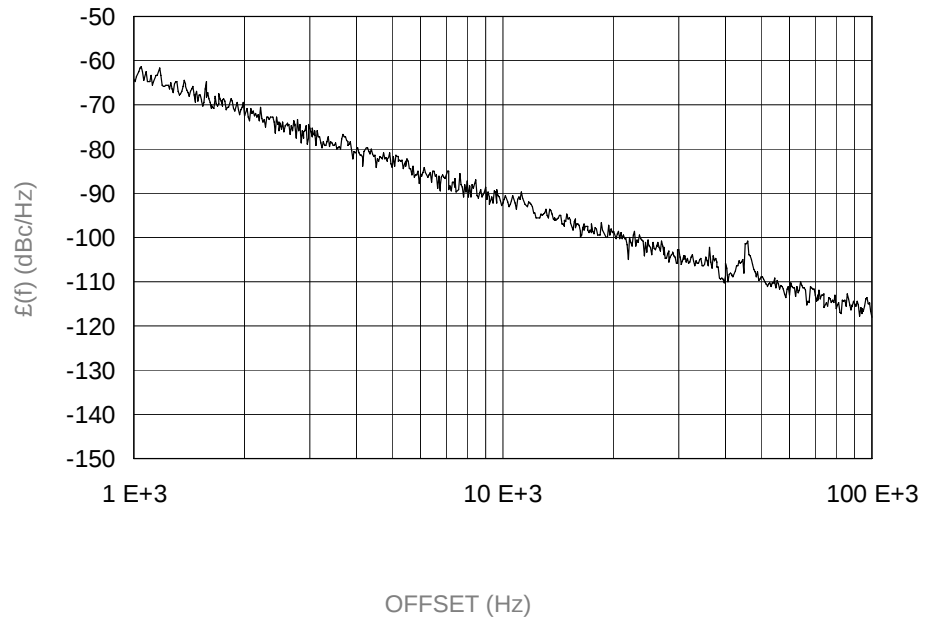
Applications

- Microwave Radios
- Satellite Communications
- Direct Broadcast

Application Notes

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

PHASE NOISE (1 Hz BW, typical)



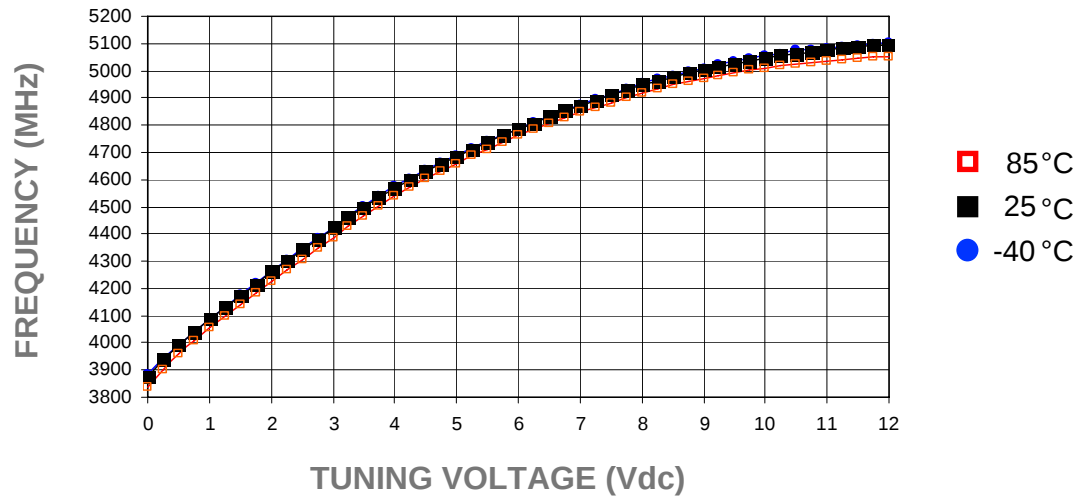
Performance Specifications	Min	Typ	Max	Units
Oscillation Frequency Range	4200		5000	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-85		dBc/Hz
Harmonic Suppression (2nd)		-18	-10	dBc
Tuning Voltage	1		12	Vdc
Tuning Sensitivity (avg.)		124		MHz/V
Power Output	9	13	17	dBm
Load Impedance		50		Ω
Input Capacitance			50	pF
Pushing			10	MHz/V
Pulling (12 dB Return Loss, Any Phase)			28	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.)		12		Vdc
Supply Current (Icc)		35	55	mA

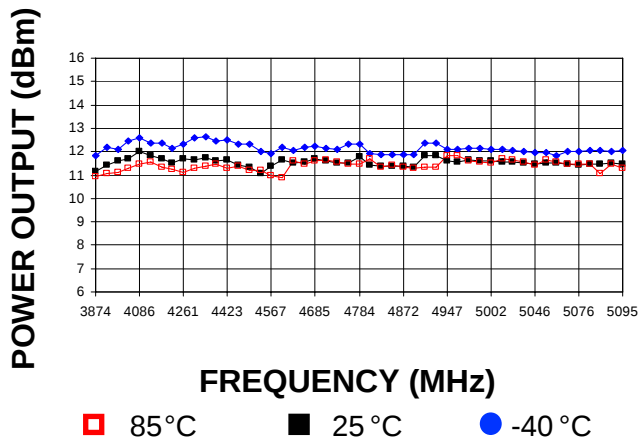
Additional Notes

Phase Noise @ 100 kHz offset (1 Hz BW, typ.): -110 dBc/Hz

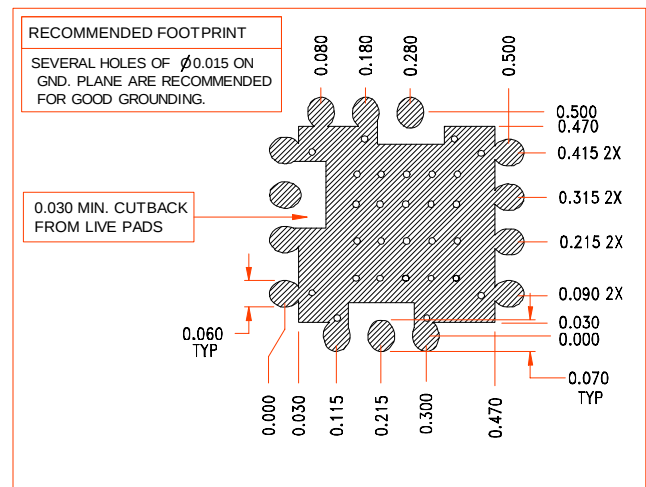
Tuning Curve, typ.



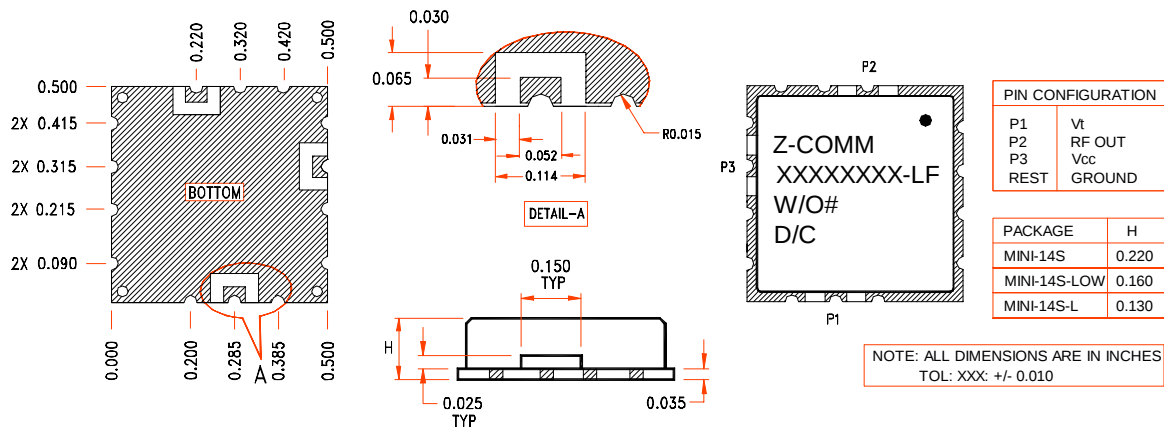
Power Curve, typ.



Footprint



Physical Dimensions



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