

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

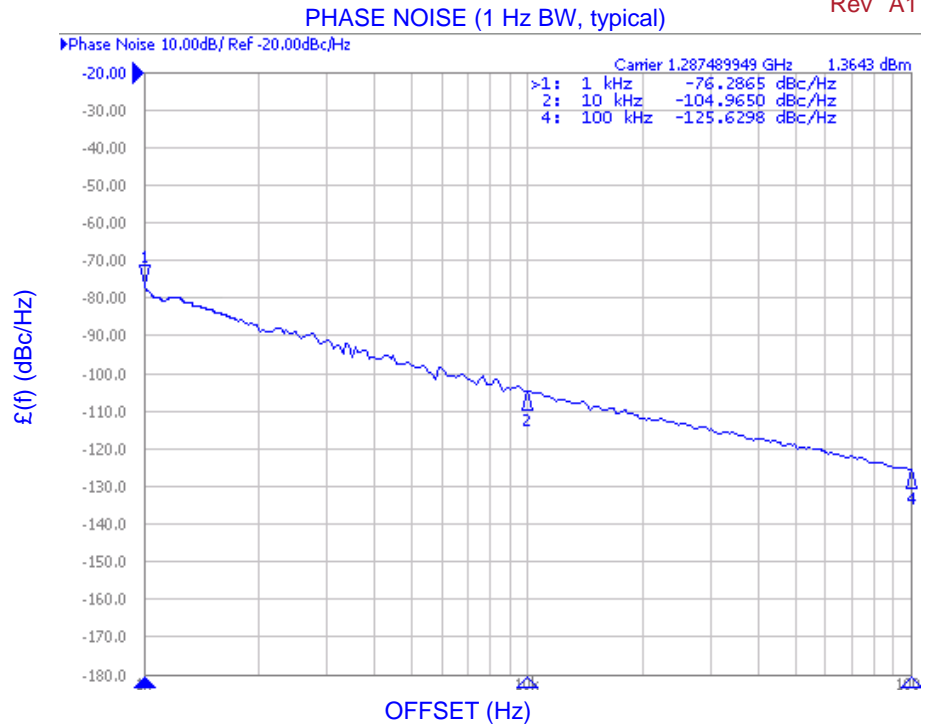
Voltage-Controlled Oscillator Surface Mount Module

Applications

- Spread Spectrum Radios
- Earthstations
- Downconvertors

Application Notes

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



Performance Specifications

	Min	Typ	Max	Units
Oscillation Frequency Range	925		1650	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-103		dBc/Hz
Harmonic Suppression (2nd)		-8		dBc
Tuning Voltage	3		21	Vdc
Tuning Sensitivity (avg.)		53		MHz/V
Power Output	4.5	7	9.5	dBm
Load Impedance		50		Ω
Input Capacitance			100	pF
Pushing			2	MHz/V
Pulling (14 dB Return Loss, Any Phase)			8	MHz
Operating Temperature Range	-40		85	$^{\circ}\text{C}$
Package Style		MINI-14S		

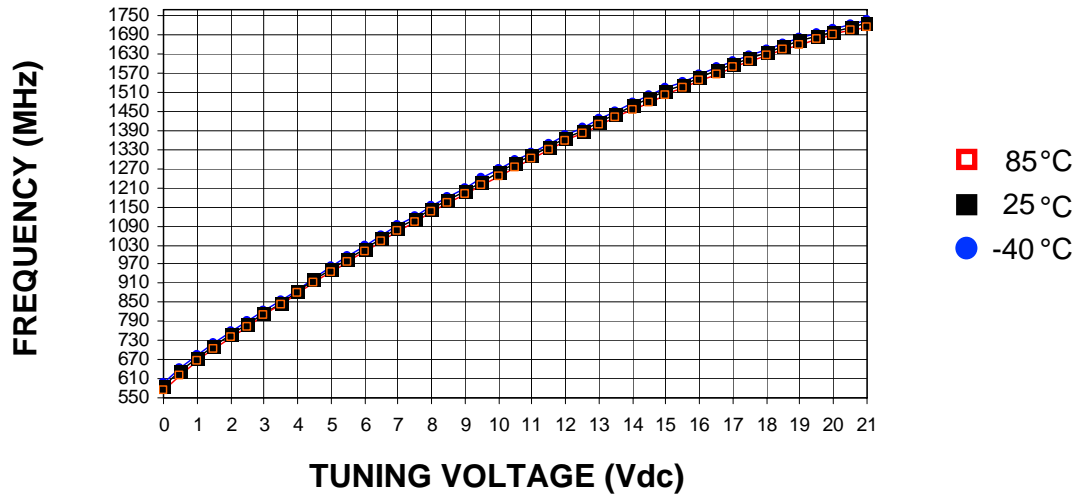
Power Supply Requirements

	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		11.5		Vdc
Supply Current (Icc)		16	19	mA

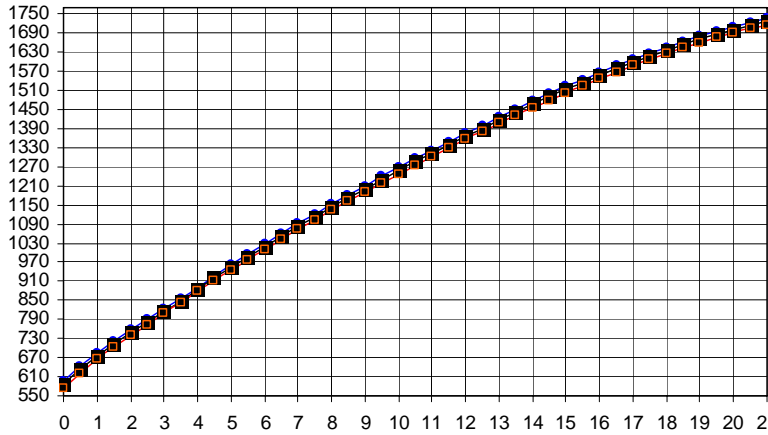
Additional Notes

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

Tuning Curve, typ.



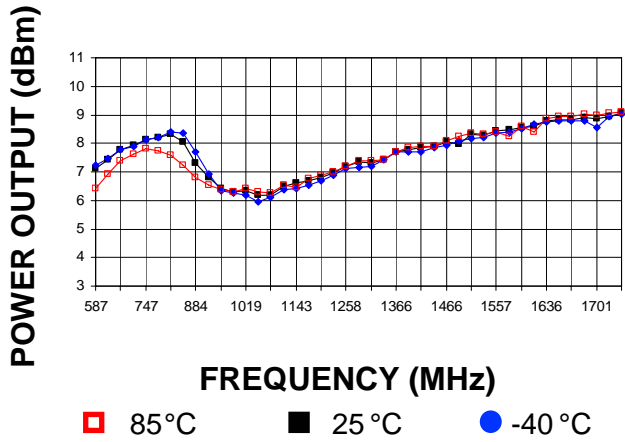
FREQUENCY (MHz)



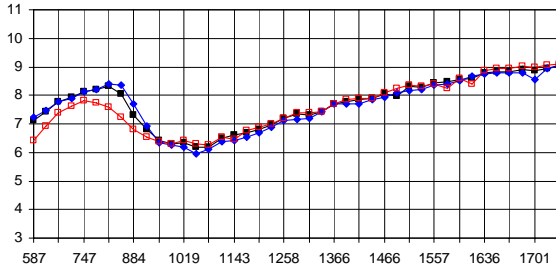
TUNING VOLTAGE (Vdc)

- 85°C
- 25°C
- 40°C

Power Curve, typ.



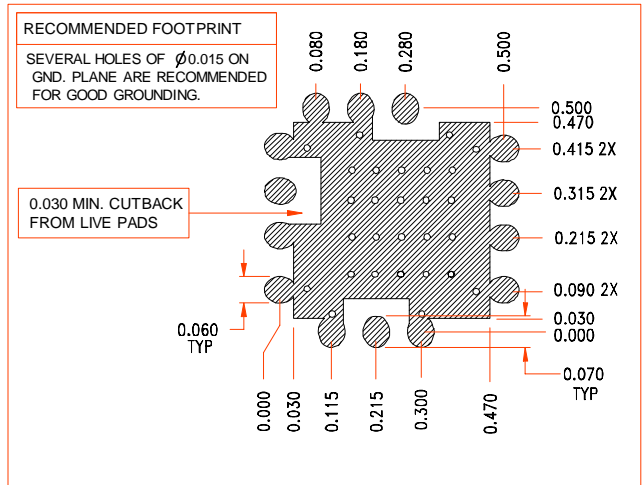
POWER OUTPUT (dBm)



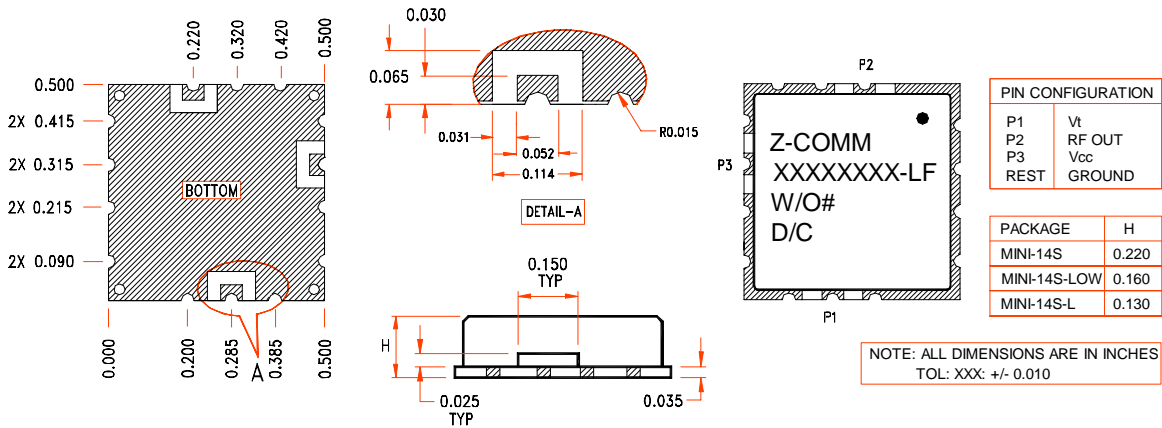
FREQUENCY (MHz)

- 85°C
- 25°C
- 40°C

Footprint



Physical Dimensions



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