

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

Radar Systems
 Satellite Communications

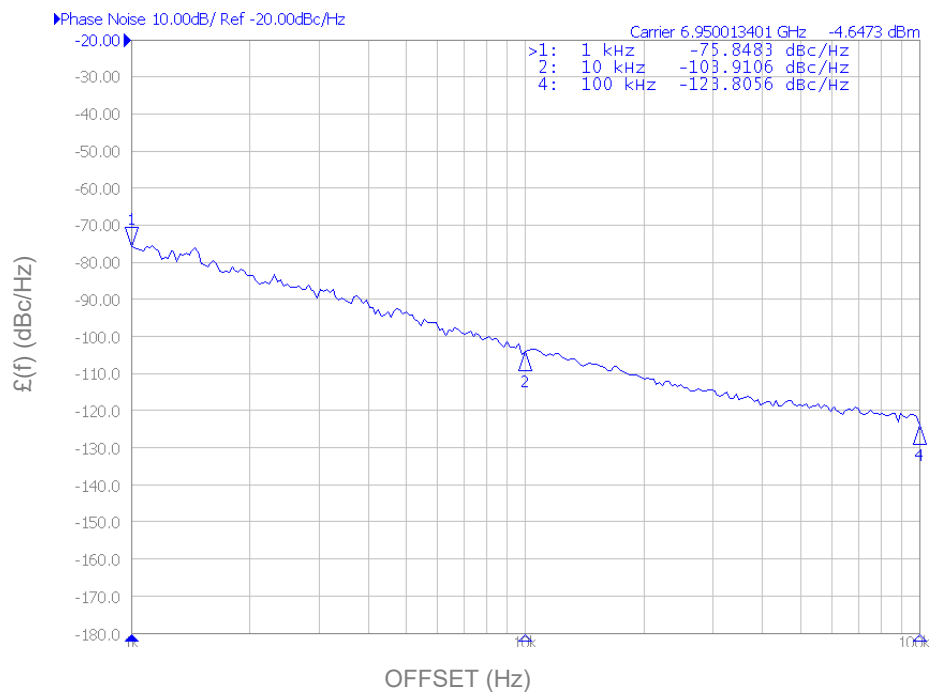
Application Notes

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

CRO6950Z-LF

Rev A1

PHASE NOISE (1 Hz BW, typical)



Performance Specifications

	Min	Typ	Max	Units
Oscillation Frequency Range	6945		6955	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-104		dBc/Hz
Harmonic Suppression (2nd)		-40	-35	dBc
Tuning Voltage	0.5		4.5	Vdc
Tuning Sensitivity (avg.)		15		MHz/V
Power Output	1	3.5	6	dBm
Load Impedance		50		Ω
Input Capacitance			50	pF
Pushing			1	MHz/V
Pulling (12 dB Return Loss, Any Phase)			1	MHz
Operating Temperature Range	-40		85	$^{\circ}\text{C}$
Package Style	VCO-24H			

Power Supply Requirements

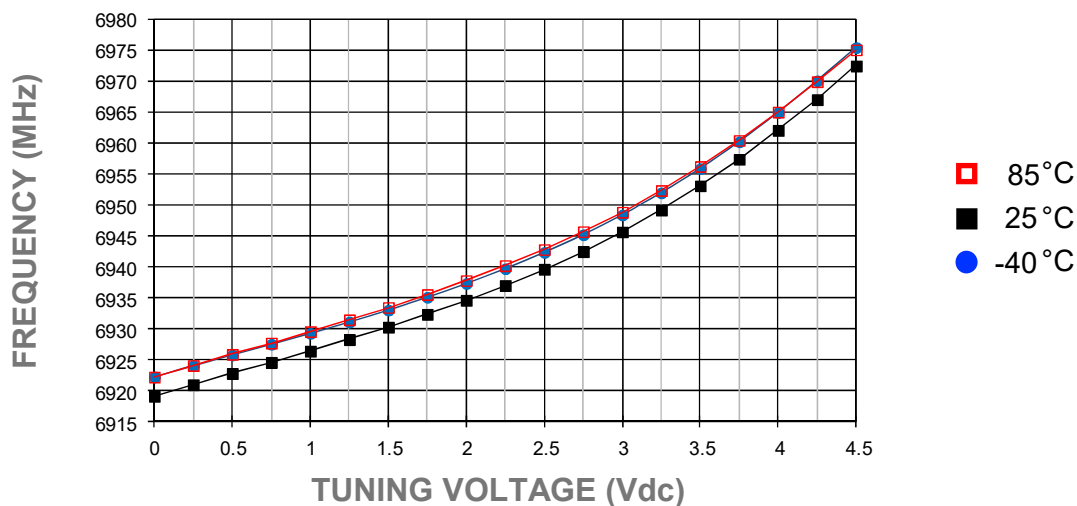
	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		5		Vdc
Supply Current (Icc)		70	75	mA

Additional Notes

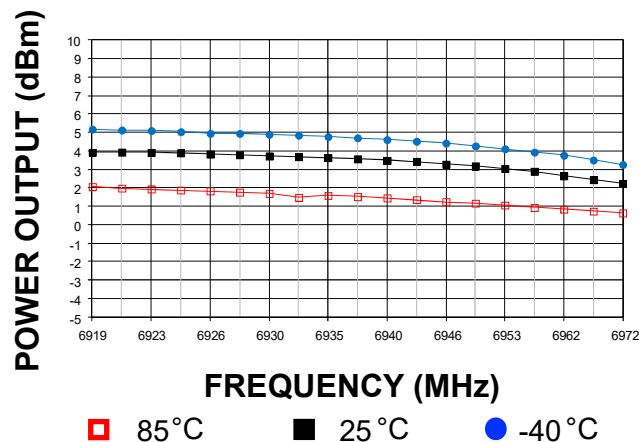
2X FUNDAMENTAL

Fundamental Rejection (typ.): -35 dBc

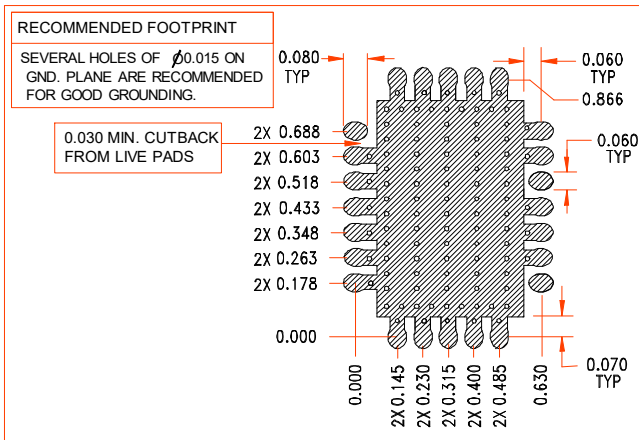
Tuning Curve, typ.



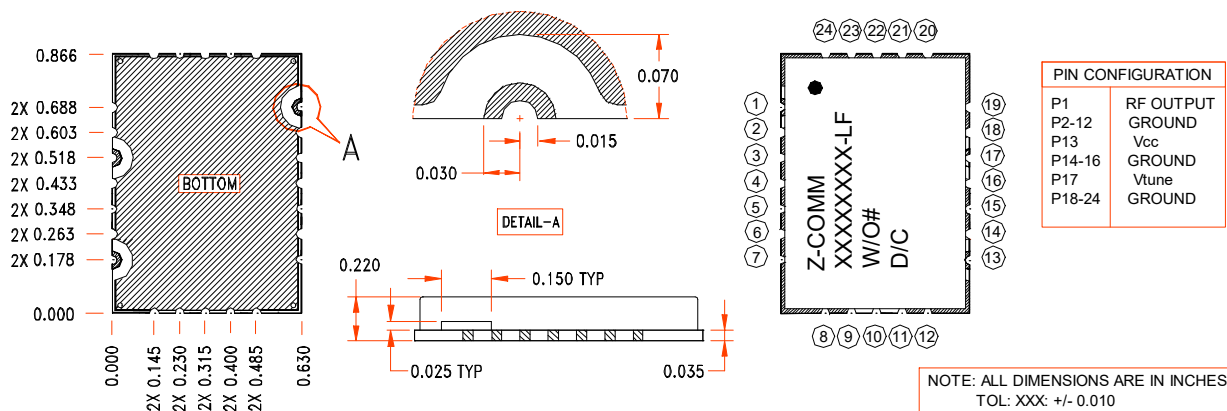
Power Curve, typ.



Footprint



Physical Dimensions



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