

9939 Via Pasar | San Diego, CA 92126
 TEL: (858) 621-2700 | FAX: (858) 621-2722
 URL: www.zcomm.com
 EMAIL: applications@zcomm.com

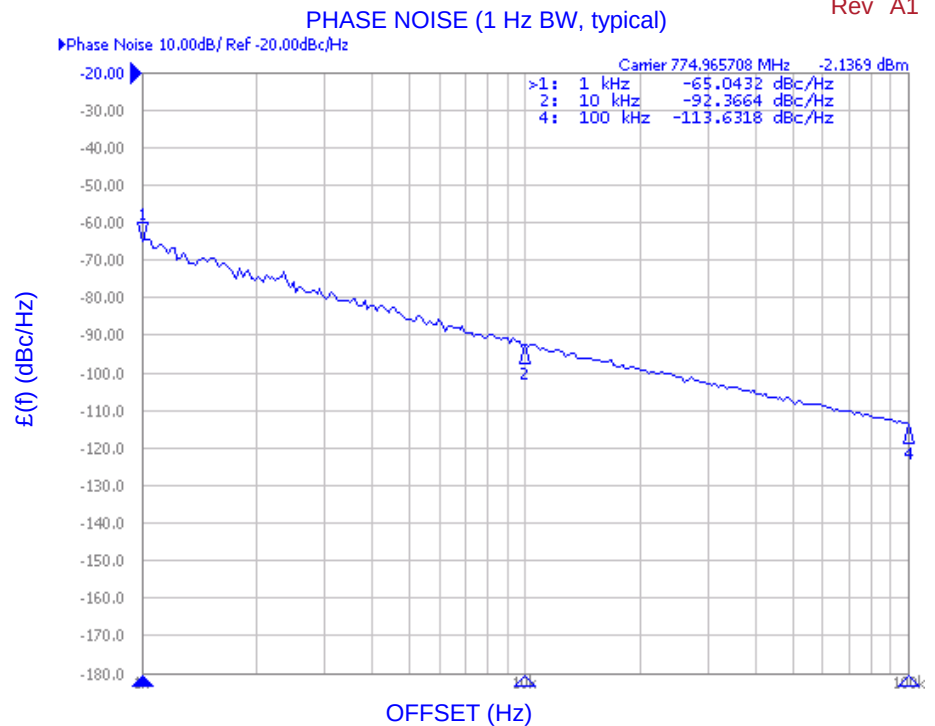
Voltage-Controlled Oscillator Surface Mount Module

Applications

- Satellite Communications
- Portable Radios
- Microwave Radios

Application Notes

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



Performance Specifications

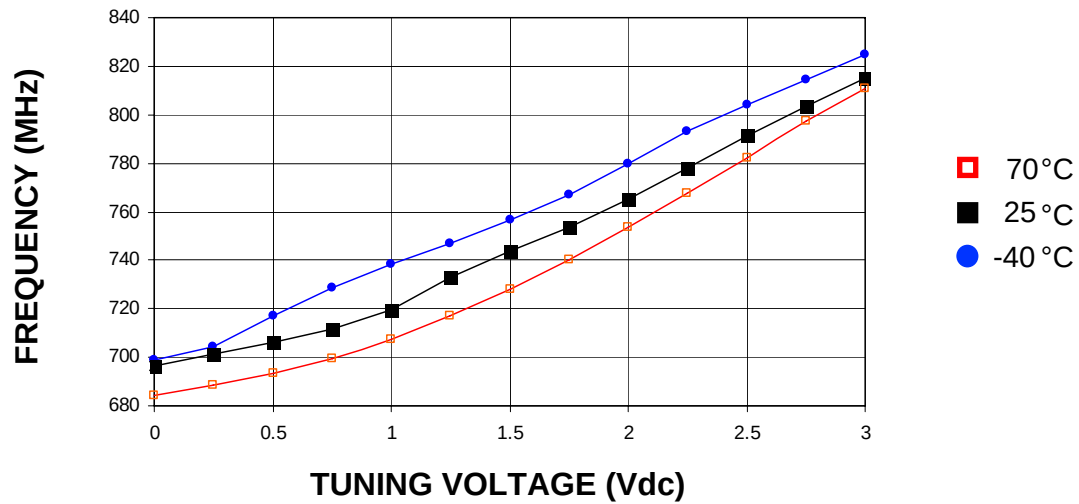
	Min	Typ	Max	Units
Oscillation Frequency Range	760		790	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-93		dBc/Hz
Harmonic Suppression (2nd)		-12		dBc
Tuning Voltage	0.5		3	Vdc
Tuning Sensitivity (avg.)		50		MHz/V
Power Output	1	3	5	dBm
Load Impedance		50		Ω
Input Capacitance			50	pF
Pushing			4	MHz/V
Pulling (14 dB Return Loss, Any Phase)			1	MHz
Operating Temperature Range	-40		70	$^{\circ}\text{C}$
Package Style		SUB-L		

Power Supply Requirements

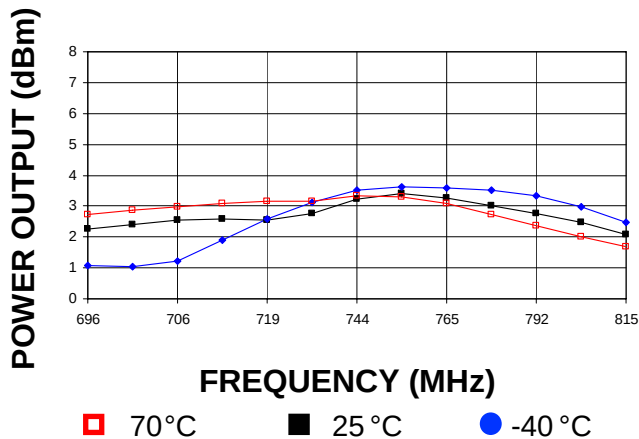
	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		3.3		Vdc
Supply Current (Icc)		16	19	mA

Additional Notes

Tuning Curve, typ.



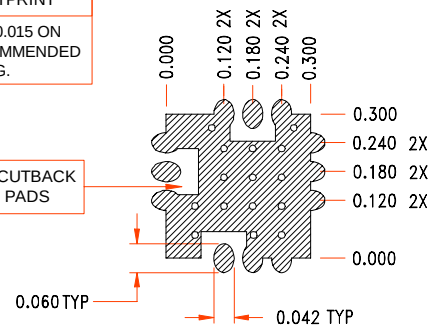
Power Curve, typ.



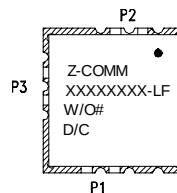
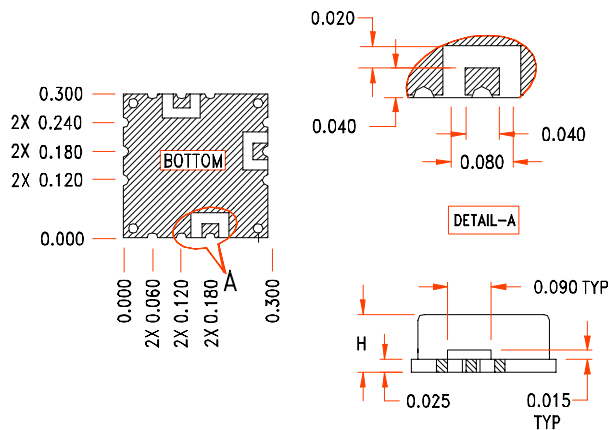
Footprint

RECOMMENDED FOOTPRINT
SEVERAL HOLES OF $\phi 0.015$ ON GND. PLANE ARE RECOMMENDED FOR GOOD GROUNDING.

0.030 MIN. CUTBACK FROM LIVE PADS



Physical Dimensions



PIN CONFIGURATION	
P1	Vt
P2	RF Out
P3	Vcc
REST	GROUND

PACKAGE	H
SUB MINI	0.110
SUB MINI-L	0.080

NOTE: ALL DIMENSIONS ARE IN INCHES
TOL: XXX: +/- 0.010

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