

9939 Via Pasar | San Diego, CA 92126
 TEL: (858) 621-2700 | FAX: (858) 621-2722

URL: www.zcomm.com

EMAIL: applications@zcomm.com

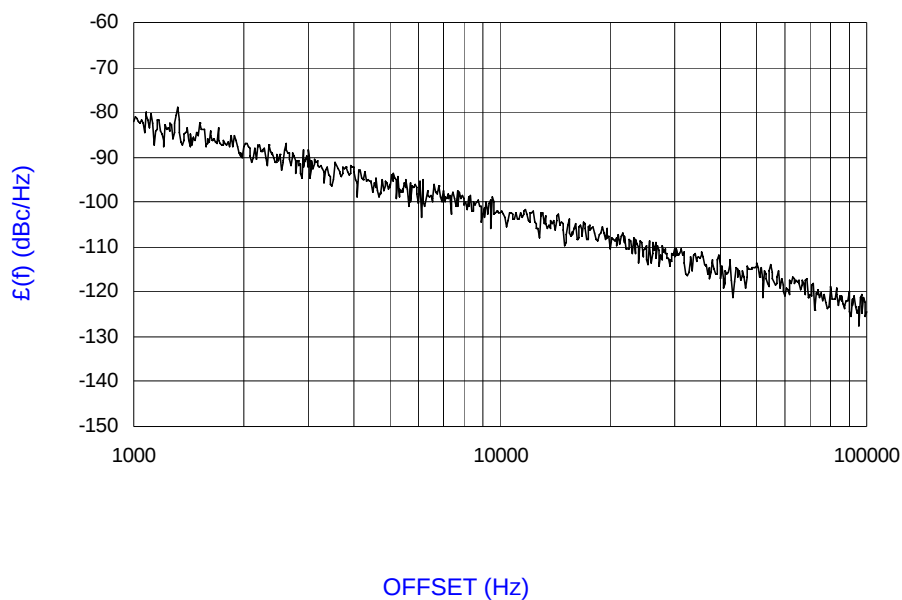
Voltage-Controlled Oscillator Surface Mount Module

Applications

- Portable Radios
- Basestations
- Test Instruments

Application Notes

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



Performance Specifications

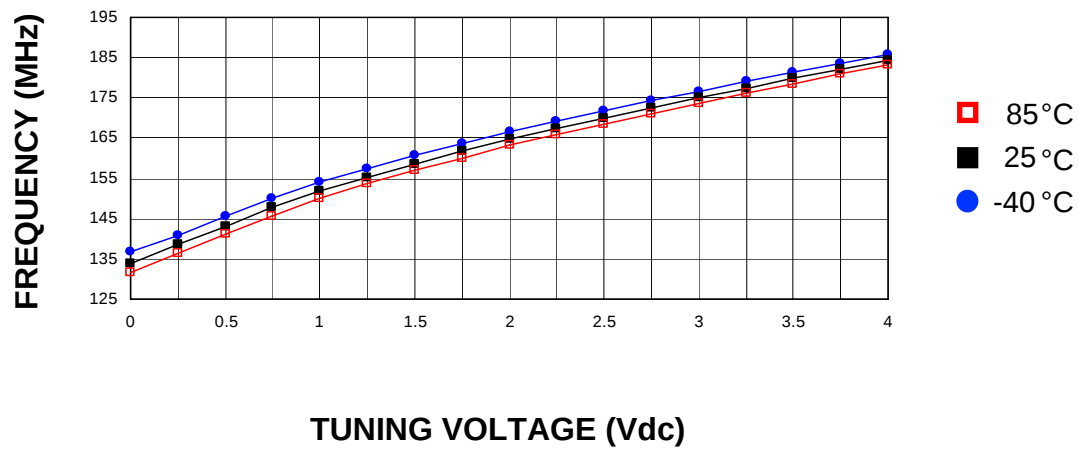
	Min	Typ	Max	Units
Oscillation Frequency Range	160		165	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-103		dBc/Hz
Harmonic Suppression (2nd)		-10		dBc
Tuning Voltage	1		4	Vdc
Tuning Sensitivity (avg.)		12		MHz/V
Power Output	-4	-1	2	dBm
Load Impedance		50		Ω
Input Capacitance			500	pF
Pushing			1	MHz/V
Pulling (14 dB Return Loss, Any Phase)			.1	MHz
Operating Temperature Range	-40		85	$^{\circ}\text{C}$
Package Style		SUB-L		

Power Supply Requirements

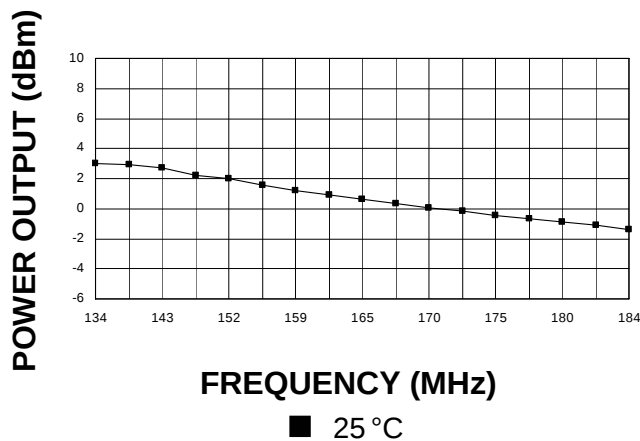
	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		5		Vdc
Supply Current (Icc)		14	22	mA

Additional Notes

Tuning Curve, typ.



Power Curve, typ.

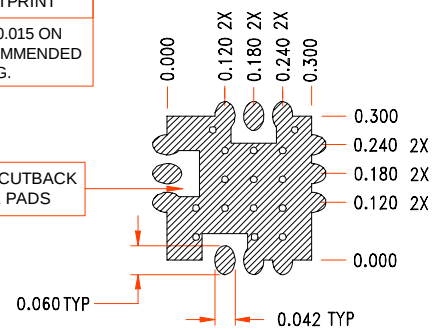


Footprint

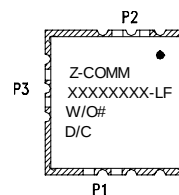
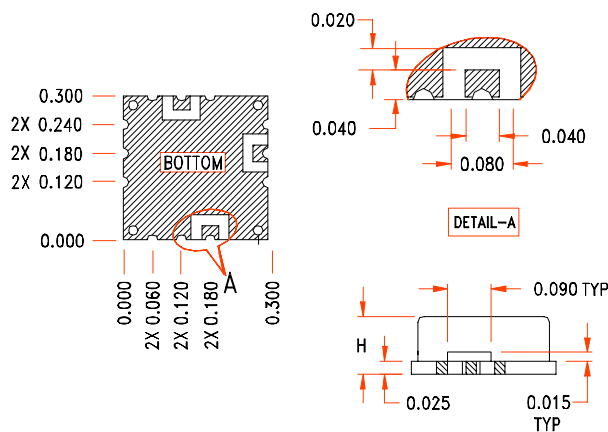
RECOMMENDED FOOTPRINT

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.