

PHASE NOISE (1 Hz BW, typical)

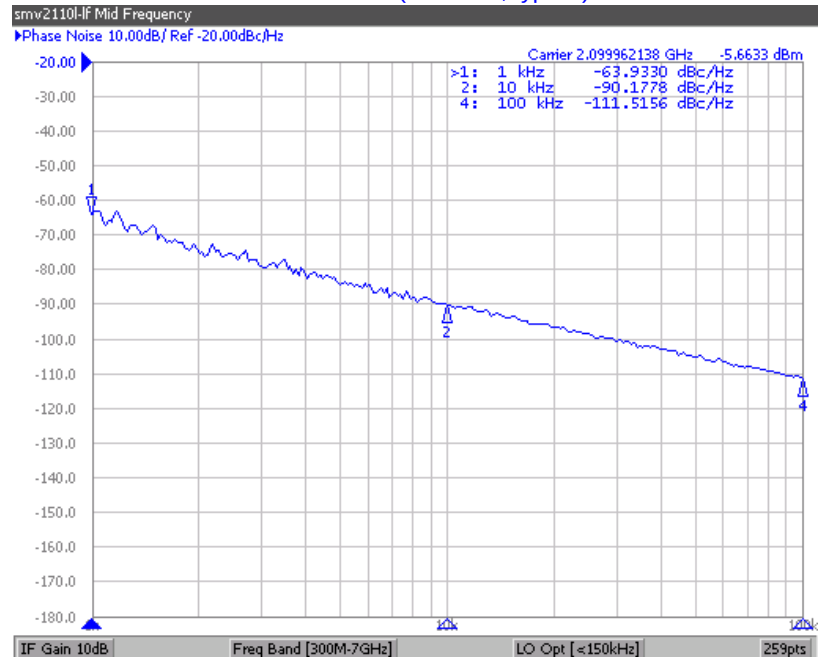
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**Voltage-Controlled Oscillator
 Surface Mount Module**
Applications

- WLAN
- PCS
- Portable Radios

Application Notes

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

 $L(f)$ (dBc/Hz)

OFFSET (Hz)
Performance Specifications

	Min	Typ	Max	Units
Oscillation Frequency Range	2050		2150	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-89		dBc/Hz
Harmonic Suppression (2nd)		-8		dBc
Tuning Voltage	0.6		4.3	Vdc
Tuning Sensitivity (avg.)		106		MHz/V
Power Output	2	5	8	dBm
Load Impedance		50		Ω
Input Capacitance			50	pF
Pushing			15	MHz/V
Pulling (14 dB Return Loss, Any Phase)			22	MHz
Operating Temperature Range	-40		85	°C
Package Style		SUB-L		

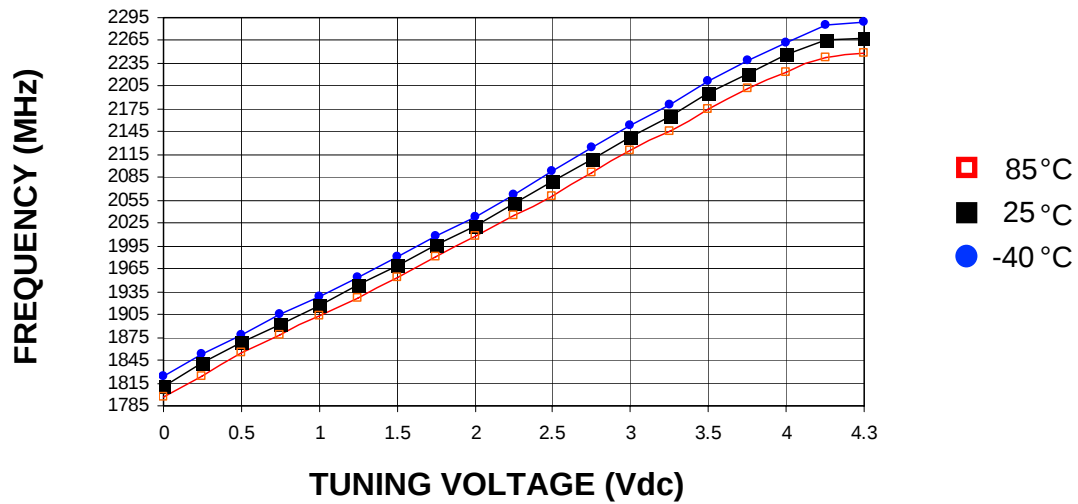
Power Supply Requirements

	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		3		Vdc
Supply Current (Icc)		13	16	mA

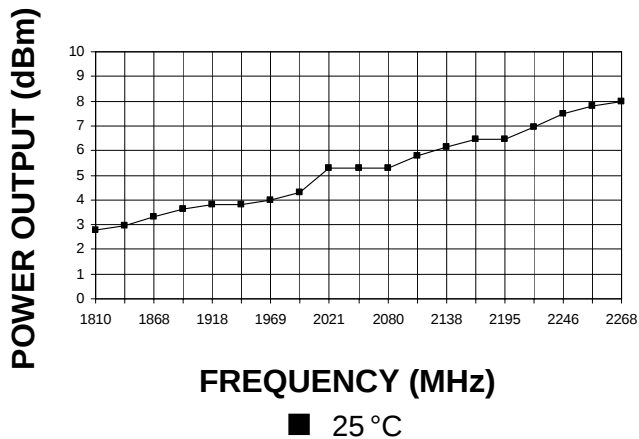
Additional Notes

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

Tuning Curve, typ.



Power Curve, typ.

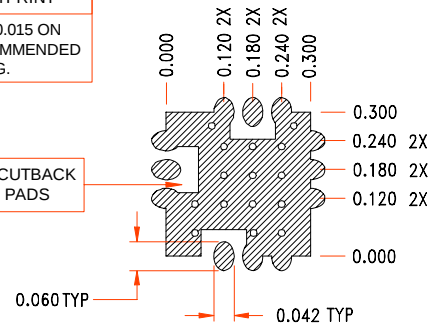


Footprint

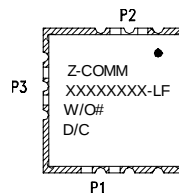
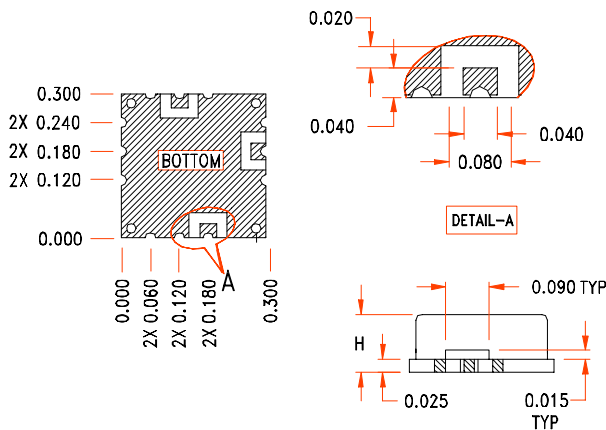
RECOMMENDED FOOTPRINT

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

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