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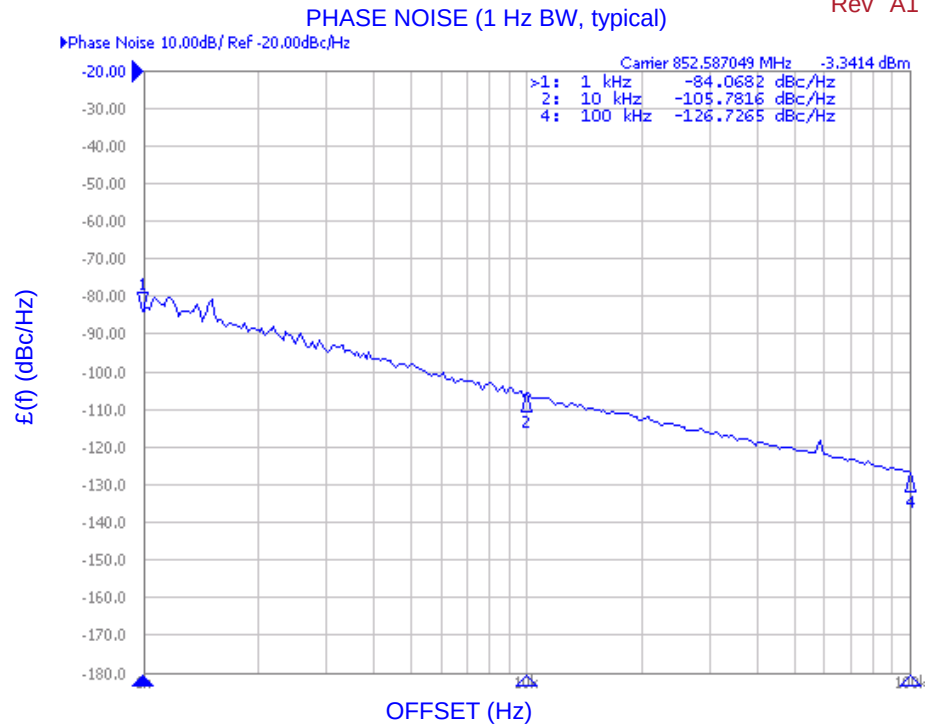
Voltage-Controlled Oscillator Surface Mount Module

Applications

- Satellite Communications
- Portable Radios
- Microwave Radio

Application Notes

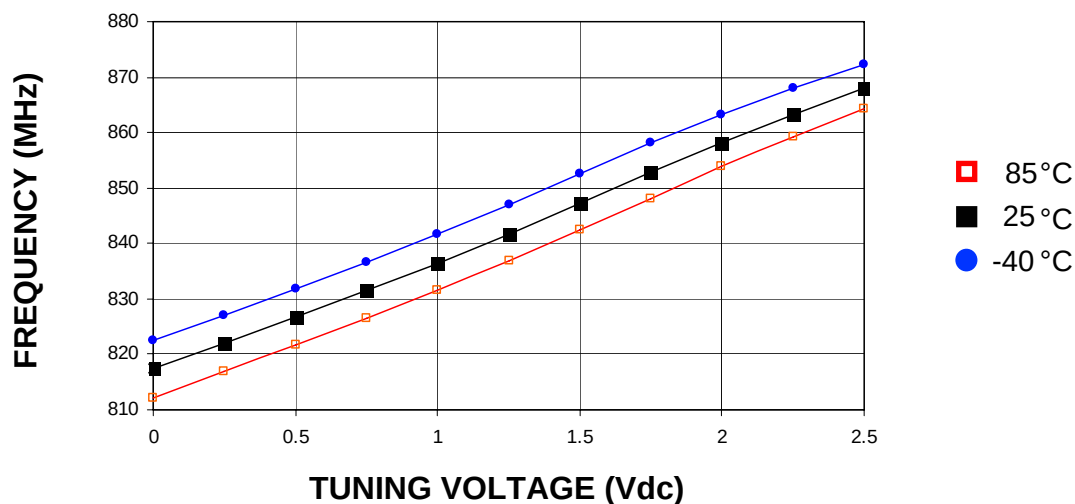
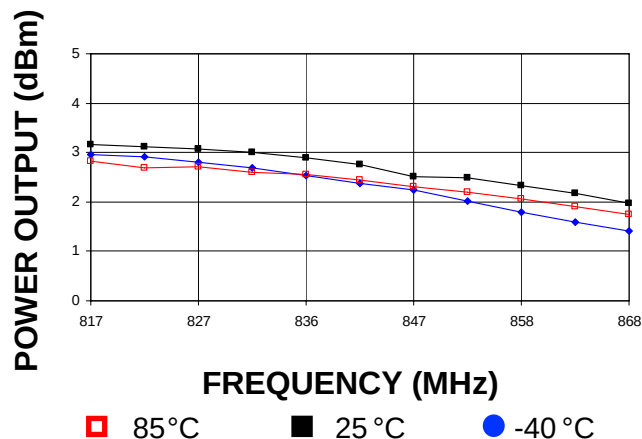
- AN-101: Mounting and Grounding
- AN-102: Output Loading
- AN-107: Manual Soldering



Performance Specifications	Min	Typ	Max	Units
Oscillation Frequency Range	850		855	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-105		dBc/Hz
Harmonic Suppression (2nd)		-12		dBc
Tuning Voltage	0.5		2.5	Vdc
Tuning Sensitivity (avg.)		22		MHz/V
Power Output	0	2.5	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		85	$^{\circ}\text{C}$
Package Style		SUB-L		

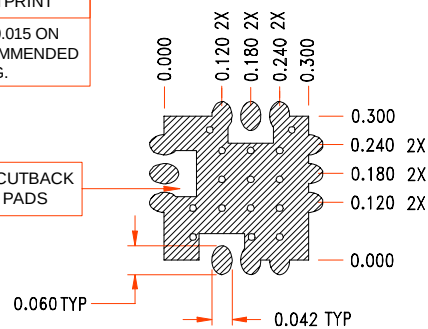
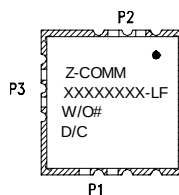
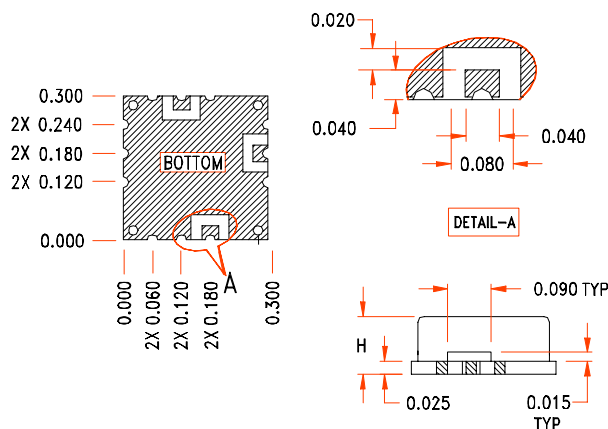
Power Supply Requirements	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		3.0		Vdc
Supply Current (Icc)		13	16	mA

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.