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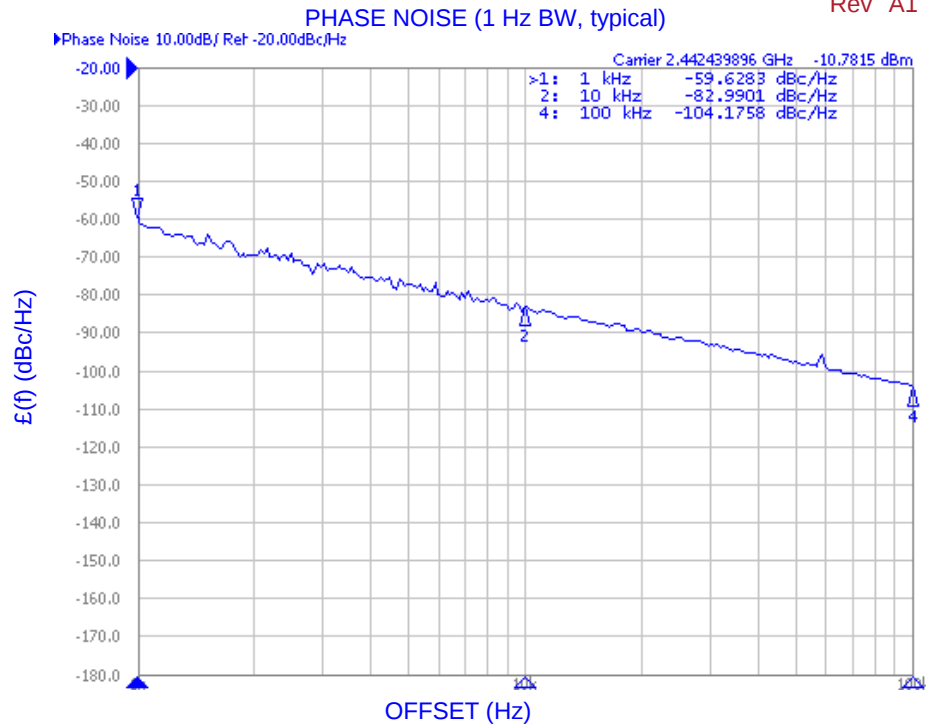
Voltage-Controlled Oscillator Surface Mount Module

Applications

- Personal Communication Systems
- W-CDMA Basestations
- Portable 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	2400		2485	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-83		dBc/Hz
Harmonic Suppression (2nd)		-15		dBc
Tuning Voltage	.5		2.5	Vdc
Tuning Sensitivity (avg.)		120		MHz/V
Power Output	-5	-1.5	2	dBm
Load Impedance		50		Ω
Input Capacitance			25	pF
Pushing			35	MHz/V
Pulling (14 dB Return Loss, Any Phase)			13	MHz
Operating Temperature Range	-40		85	$^{\circ}\text{C}$
Package Style		USSP		

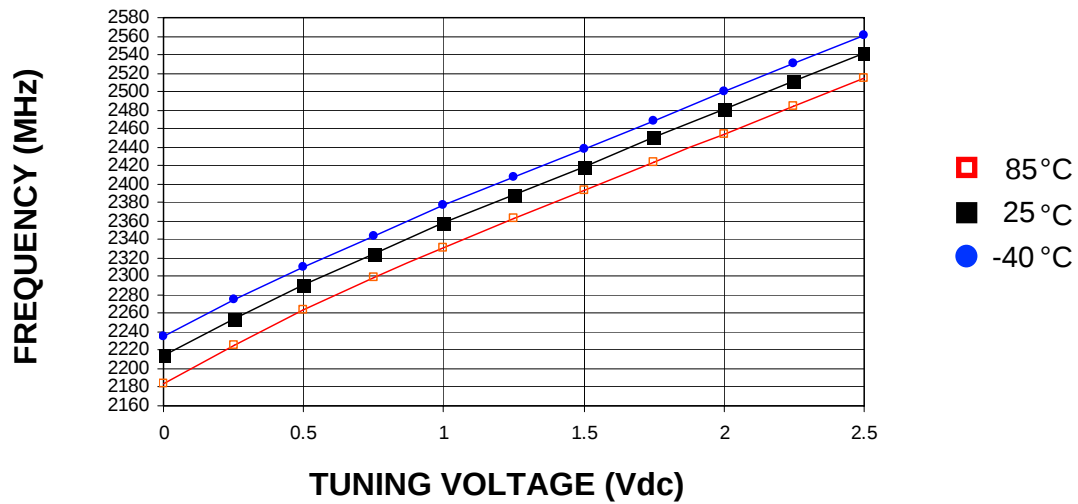
Power Supply Requirements

	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		2.7		Vdc
Supply Current (Icc)		6	9	mA

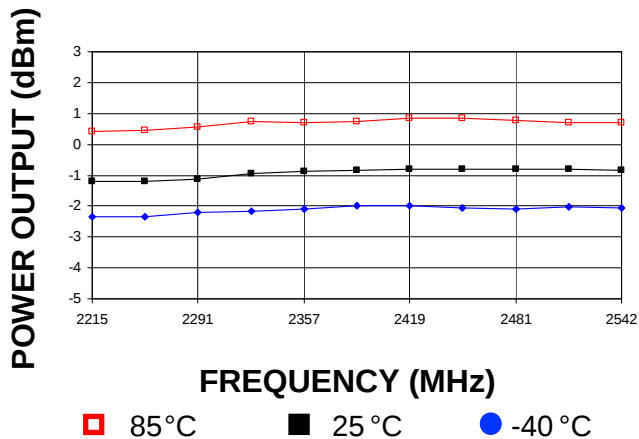
Additional Notes

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

Tuning Curve, typ.



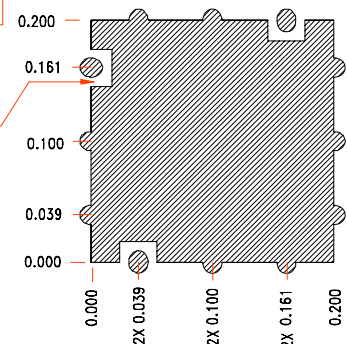
Power Curve, typ.



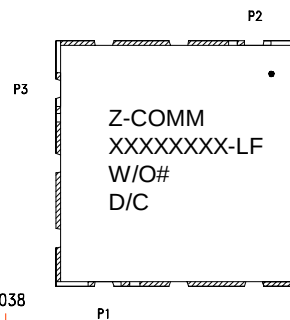
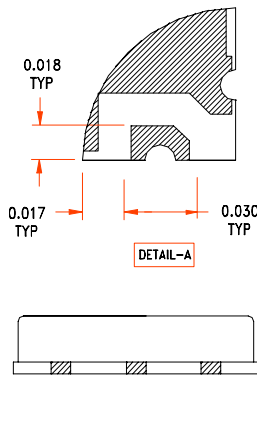
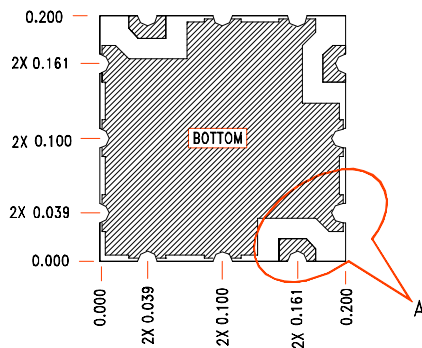
Footprint

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

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

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