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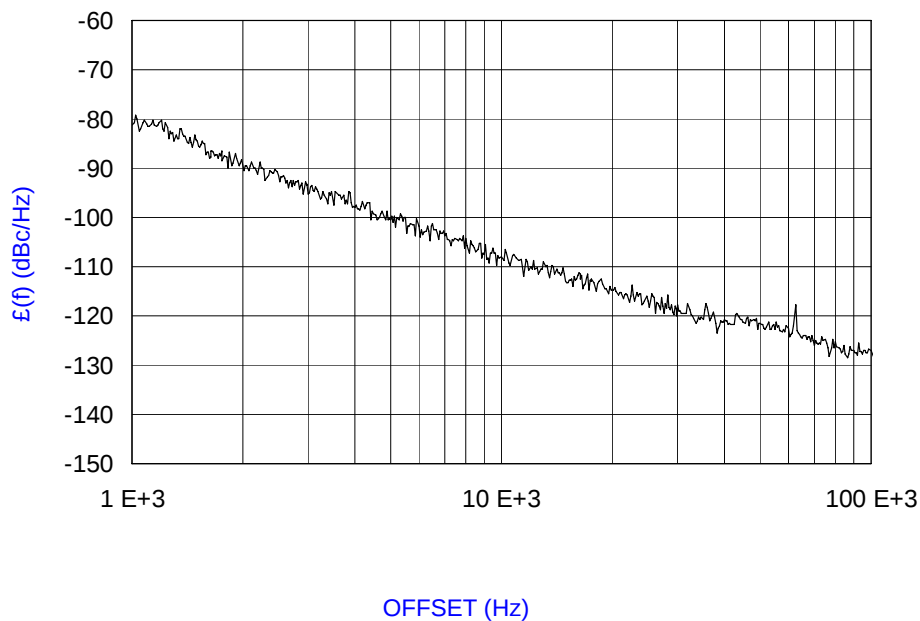
Voltage-Controlled Oscillator Surface Mount Module

Applications

- Microwave Radios
- Satellite Communications
- Direct Broadcast

Application Notes

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



Performance Specifications

	Min	Typ	Max	Units
Oscillation Frequency Range	5990		6010	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-108		dBc/Hz
Harmonic Suppression (2nd)		-18		dBc
Tuning Voltage	0.5		4.5	Vdc
Tuning Sensitivity (avg.)		18		MHz/V
Power Output	2	4	6	dBm
Load Impedance		50		Ω
Input Capacitance			50	pF
Pushing			2	MHz/V
Pulling (14 dB Return Loss, Any Phase)			.05	MHz
Operating Temperature Range	-40		85	$^{\circ}\text{C}$
Package Style		VCO-24H		

Power Supply Requirements

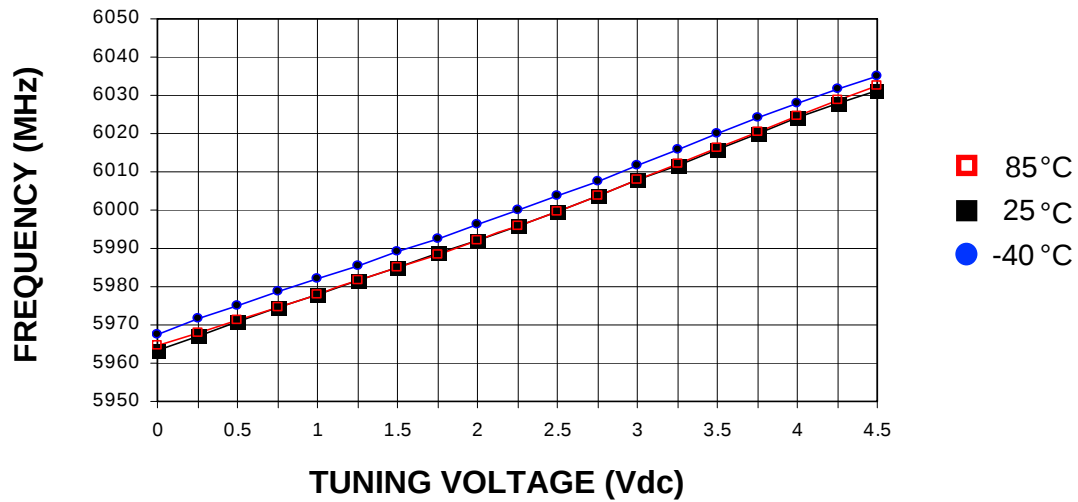
	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		5		Vdc
Supply Current (Icc)		122	150	mA

Additional Notes

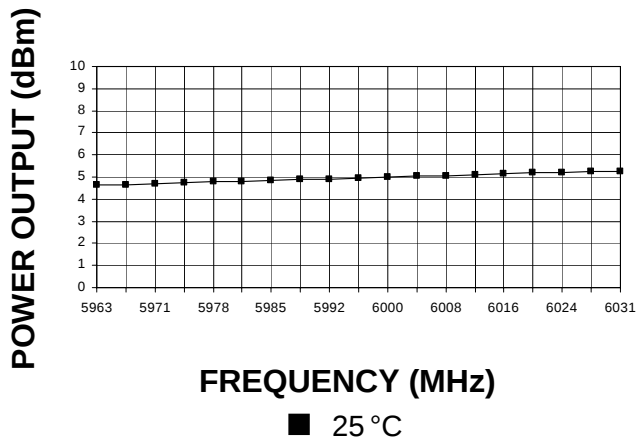
Fundamental Rejection (typ.): -40 dBc

Phase Noise @ 100 kHz offset (1 Hz BW, typ.): -128 dBc/Hz

Tuning Curve, typ.



Power Curve, typ.

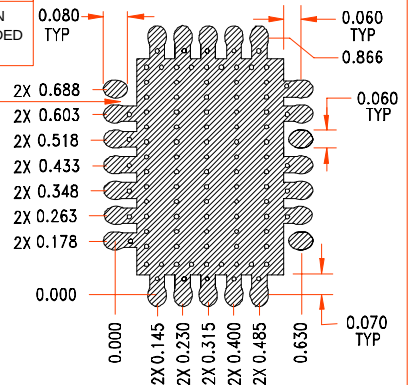


Footprint

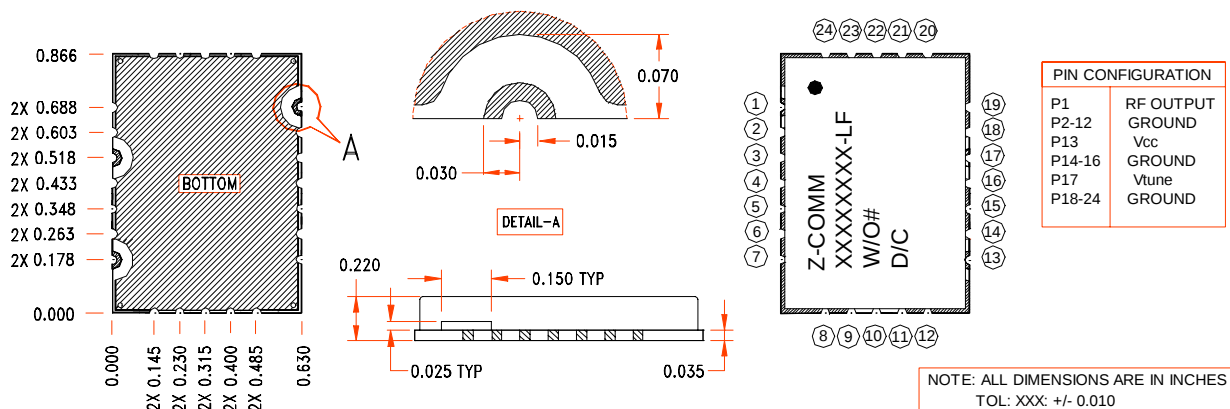
RECOMMENDED FOOTPRINT

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

0.030 MIN. CUTBACK FROM LIVE PADS



Physical Dimensions



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