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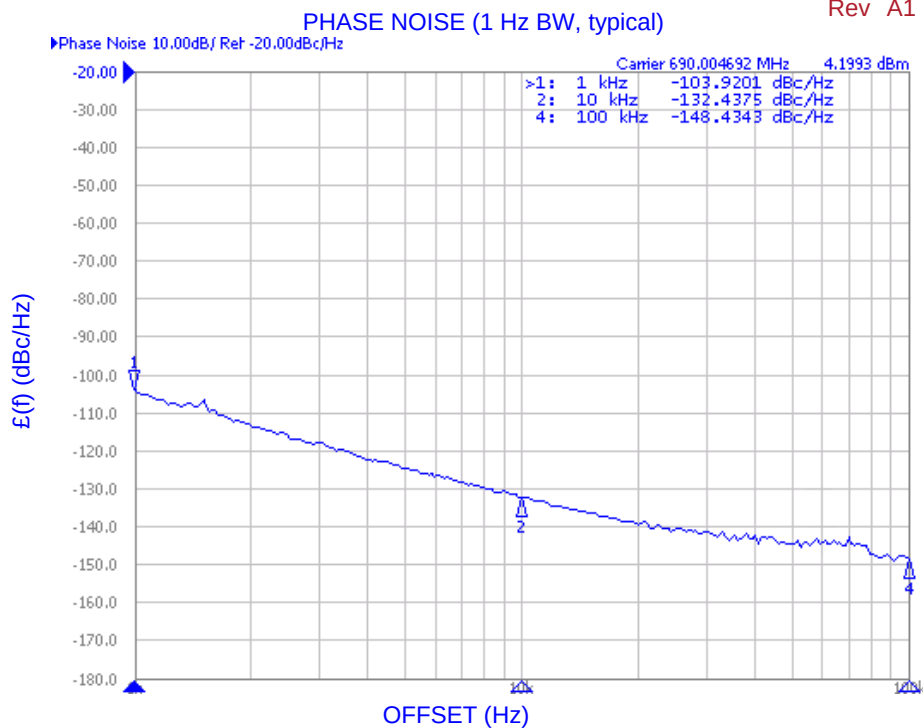
Voltage-Controlled Oscillator Surface Mount Module

Applications

- Digital communication systems
- Downconverters
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Application Notes

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



Performance Specifications

	Min	Typ	Max	Units
Oscillation Frequency Range	690		690	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-131		dBc/Hz
Harmonic Suppression (2nd)		-19	-18	dBc
Tuning Voltage	0		6	Vdc
Tuning Sensitivity (avg.)		2		MHz/V
Power Output	7	9	11	dBm
Load Impedance		50		Ω
Input Capacitance			100	pF
Pushing			1	MHz/V
Pulling (14 dB Return Loss, Any Phase)			1	MHz
Operating Temperature Range	-40		85	$^{\circ}\text{C}$
Package Style	ZMX-14-SM			

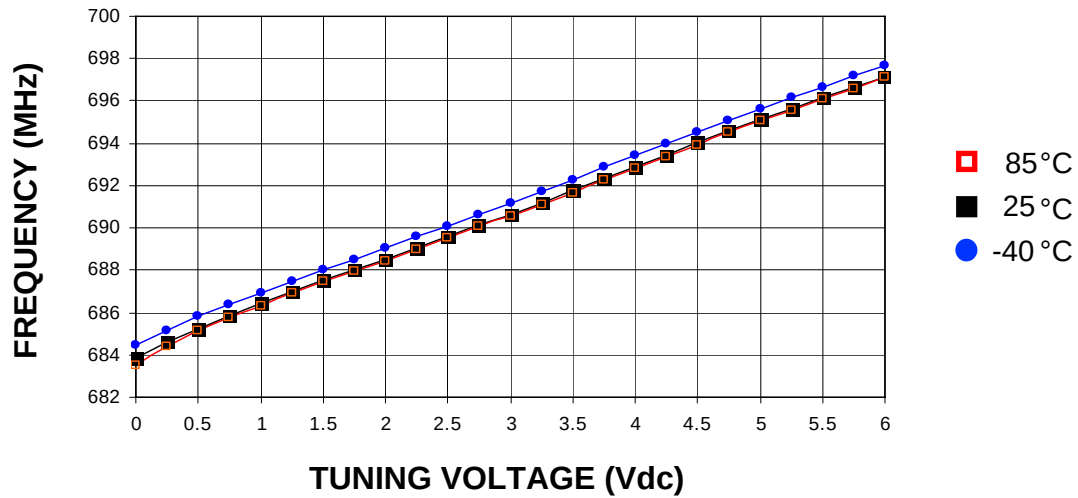
Power Supply Requirements

	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		8		Vdc
Supply Current (Icc)		23	28	mA

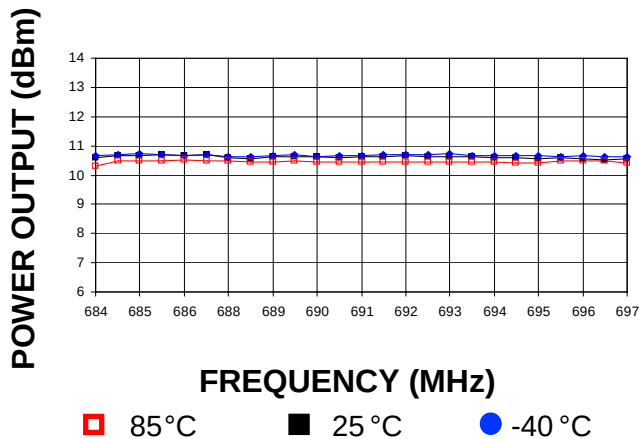
Additional Notes

Phase Noise @ 1 kHz offset (1 Hz BW) -104 (typ) dBc/Hz
Phase Noise @ 100 kHz offset (1 Hz BW) -148 (typ) dBc/Hz

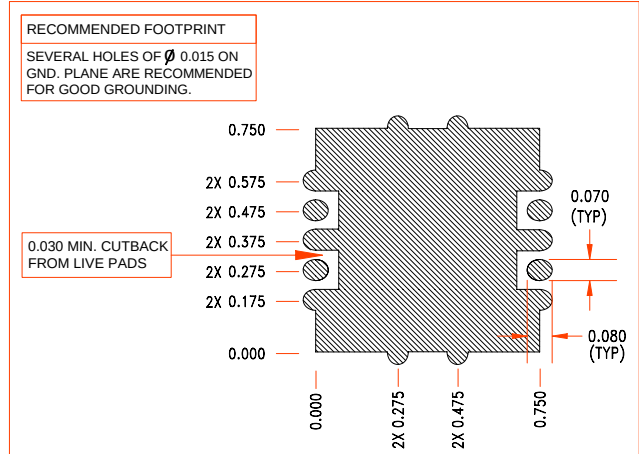
Tuning Curve, typ.



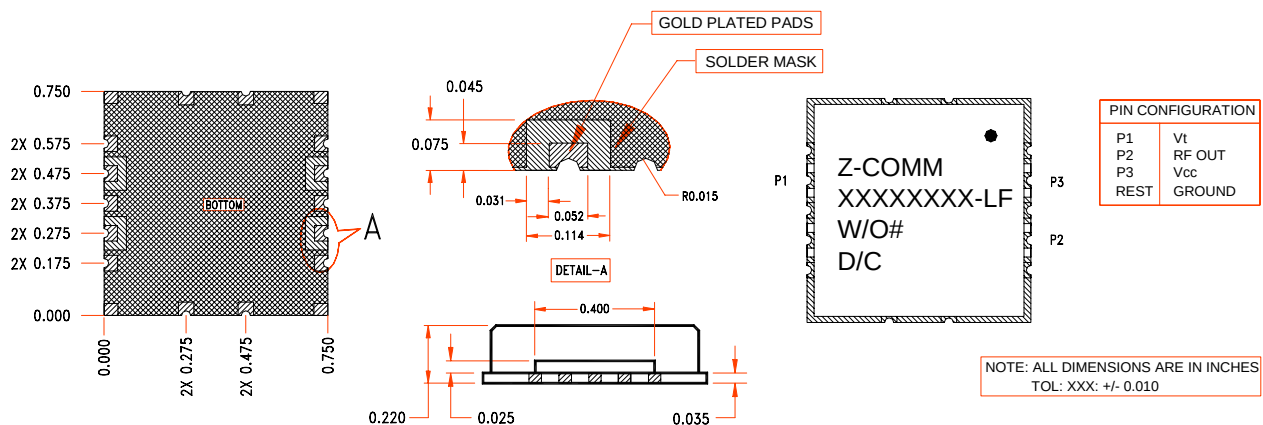
Power Curve, typ.



Footprint



Physical Dimensions



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