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Voltage-Controlled Oscillator Surface Mount Module

Applications

- Digital Communication Systems
- Downconverters
- Satellite Modems

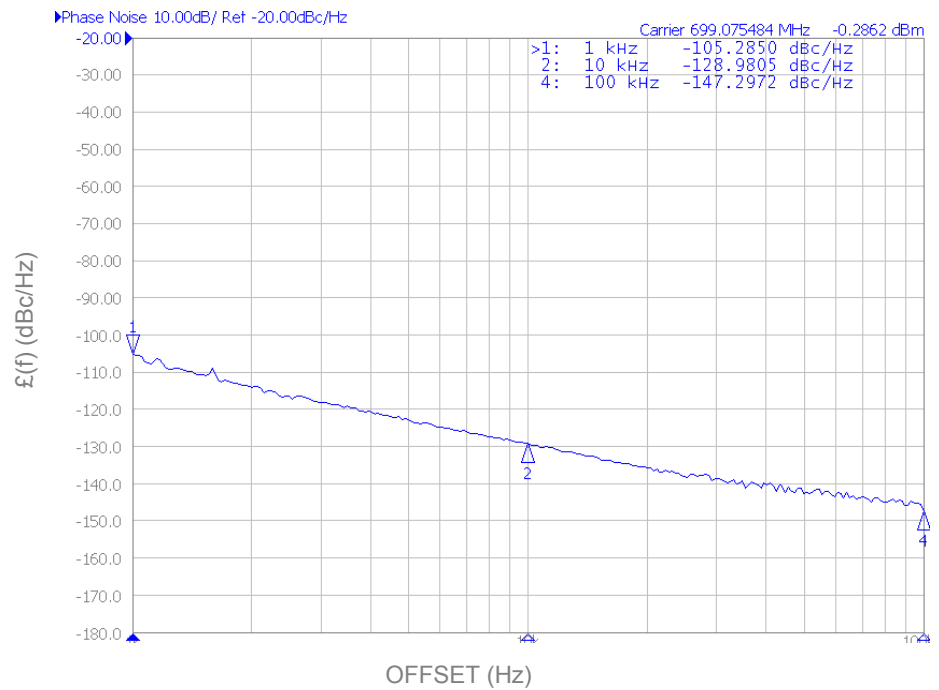
Application Notes

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

ZRO0700B-LF

Rev A1

PHASE NOISE (1 Hz BW, typical)



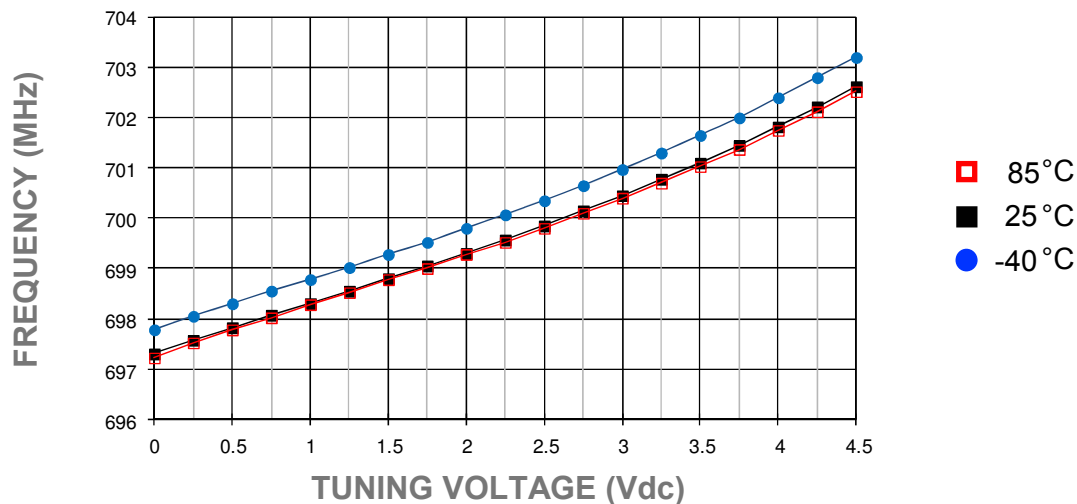
Performance Specifications	Min	Typ	Max	Units
Oscillation Frequency Range	699		701	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-129		dBc/Hz
Harmonic Suppression (2nd)		-21	-16	dBc
Tuning Voltage	0.5		4.5	Vdc
Tuning Sensitivity (avg.)		2		MHz/V
Power Output	7	9	11	dBm
Load Impedance		50		Ω
Input Capacitance			100	pF
Pushing			.06	MHz/V
Pulling (12 dB Return Loss, Any Phase)			.3	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.)		5		Vdc
Supply Current (Icc)		18	25	mA

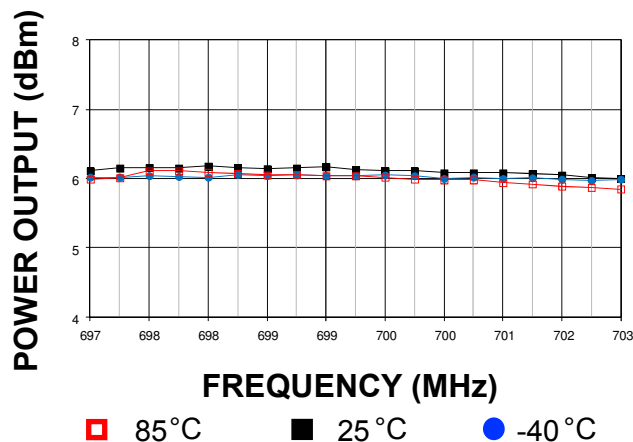
Additional Notes

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

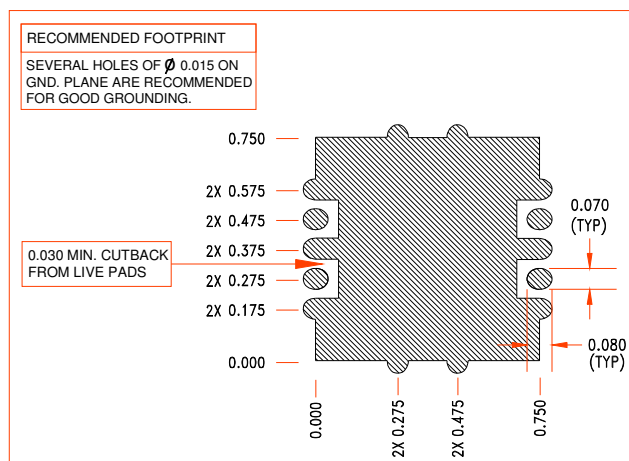
Tuning Curve, typ.



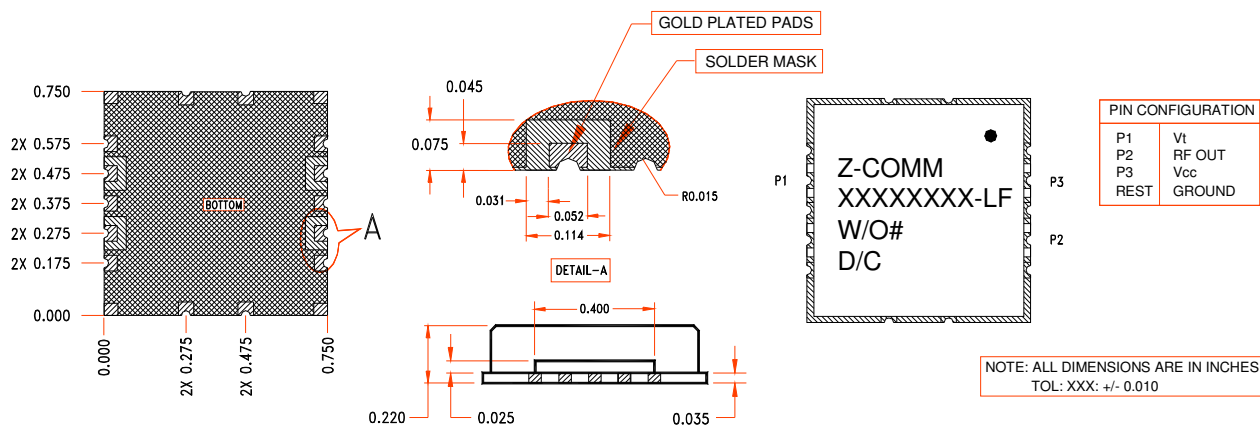
Power Curve, typ.



Footprint



Physical Dimensions



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