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Voltage-Controlled Oscillator Surface Mount Module

Applications

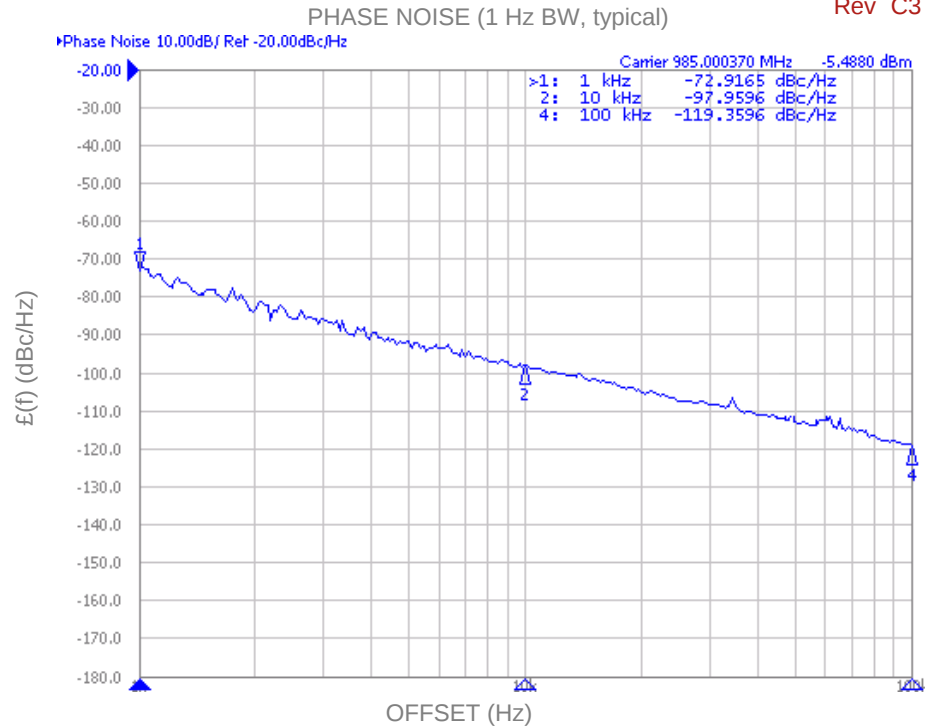
- Digital Cellular
- VHF Communications
- Test Equipment

Application Notes

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

SMV0978L-LF

Rev C3



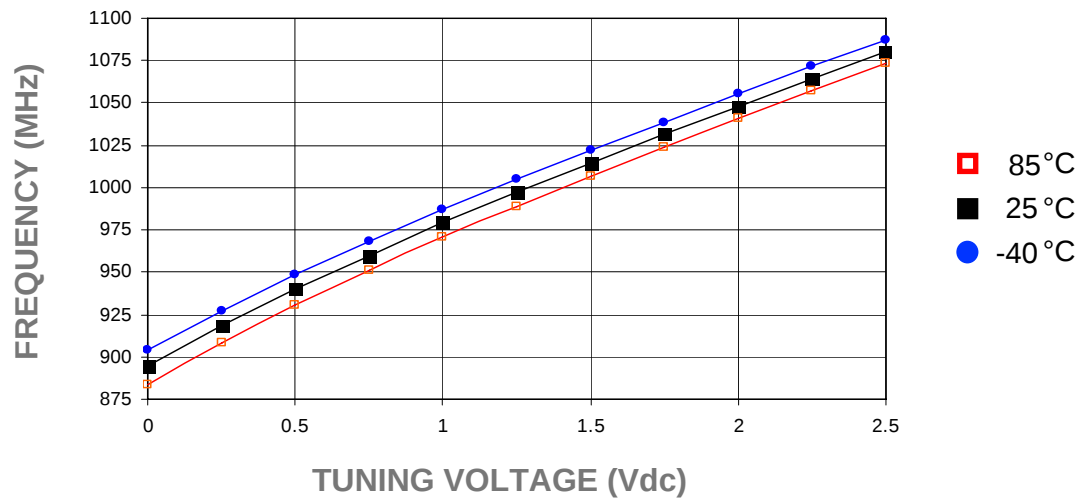
Performance Specifications	Min	Typ	Max	Units
Oscillation Frequency Range	975		995	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-97		dBc/Hz
Harmonic Suppression (2nd)		-12	-9	dBc
Tuning Voltage	0.5		2.5	Vdc
Tuning Sensitivity (avg.)		76		MHz/V
Power Output	1	4	7	dBm
Load Impedance		50		Ω
Input Capacitance			50	pF
Pushing			2	MHz/V
Pulling (20. dB Return Loss, Any Phase)			6	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		Vdc
Supply Current (Icc)		7	9	mA

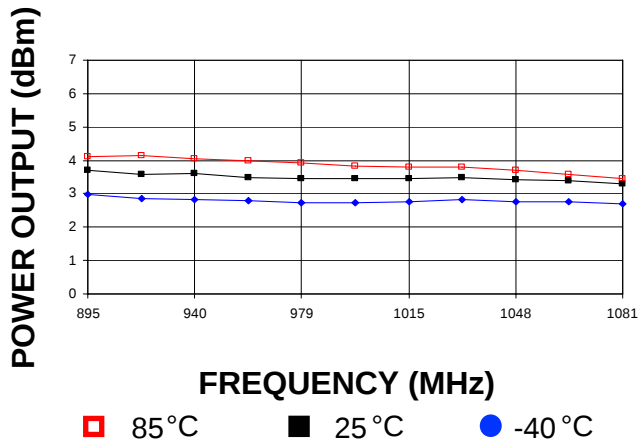
Additional Notes

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

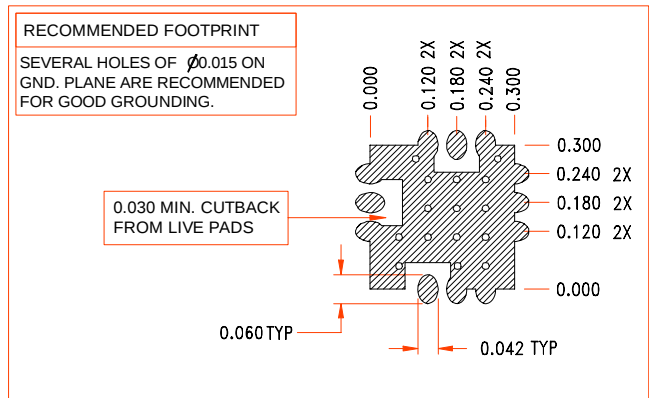
Tuning Curve, typ.



Power Curve, typ.



Footprint



Physical Dimensions

