

PHASE NOISE (1 Hz BW, typical)

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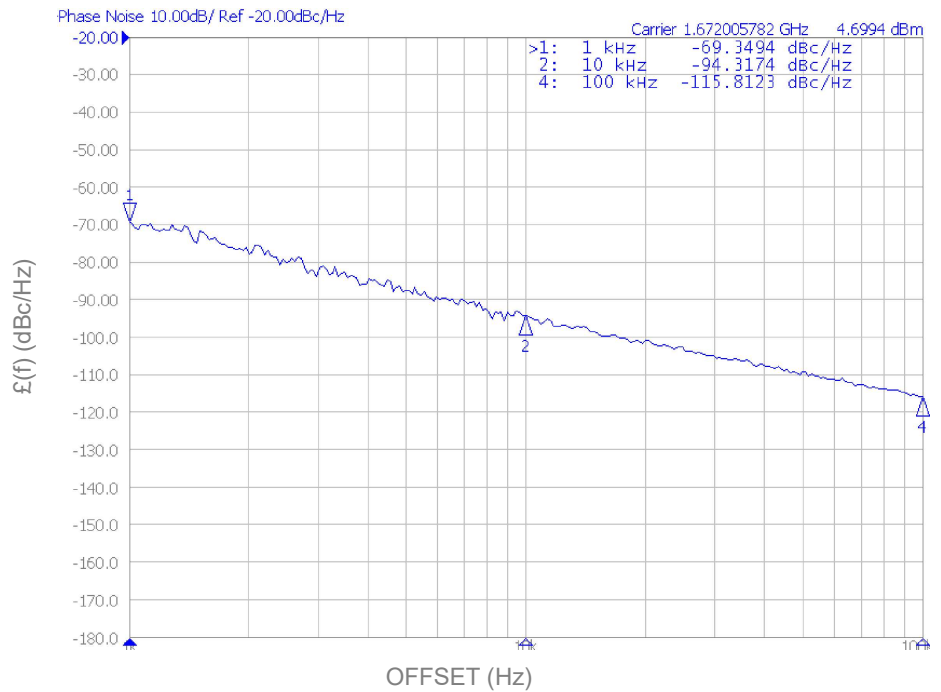
Voltage-Controlled Oscillator Surface Mount Module

Applications

Radio Equipment
 Satellite Communications

Application Notes

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



Performance Specifications	Min	Typ	Max	Units
Oscillation Frequency Range	1550		1795	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-94		dBc/Hz
Harmonic Suppression (2nd)		-12	-9	dBc
Tuning Voltage	0.75		4.25	Vdc
Tuning Sensitivity (avg.)		100		MHz/V
Power Output	6	9	12	dBm
Load Impedance		50		Ω
Input Capacitance			50	pF
Pushing			17	MHz/V
Pulling (20. dB Return Loss, Any Phase)			12	MHz
Operating Temperature Range	-40		85	$^{\circ}\text{C}$
Package Style		SUB-L		

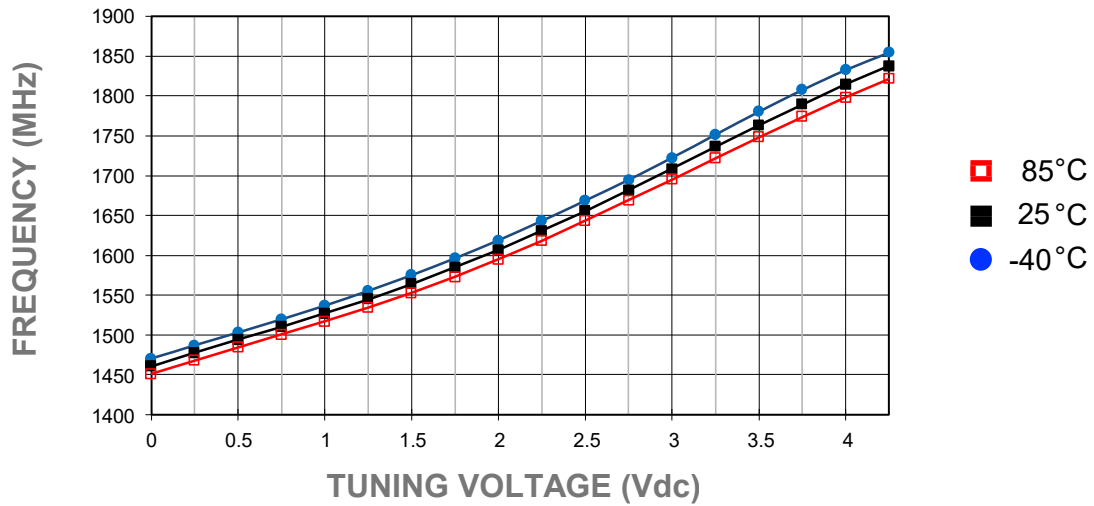
Power Supply Requirements	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		5		Vdc
Supply Current (Icc)		26	32	mA

Additional Notes

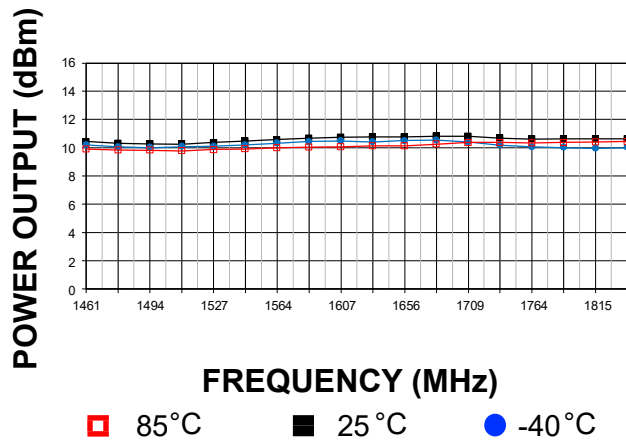
PCB PLATING: Gold (Au) over Nickel (Ni)
Plating Thickness
Gold (Au): 4 to 8 $\mu\text{in.}$ (max)
Nickel (Ni): 100 to 150 $\mu\text{in.}$ (max)

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

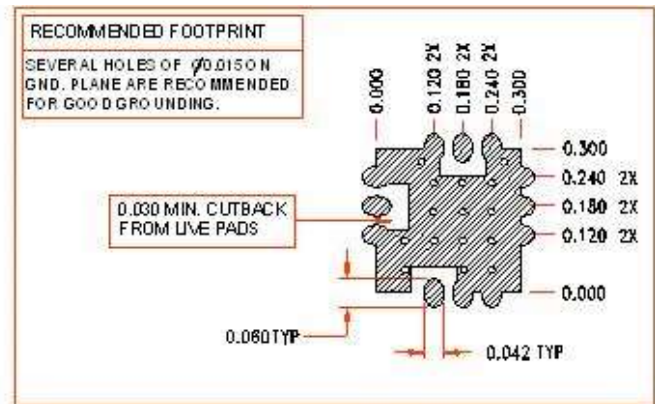
Tuning Curve, typ.



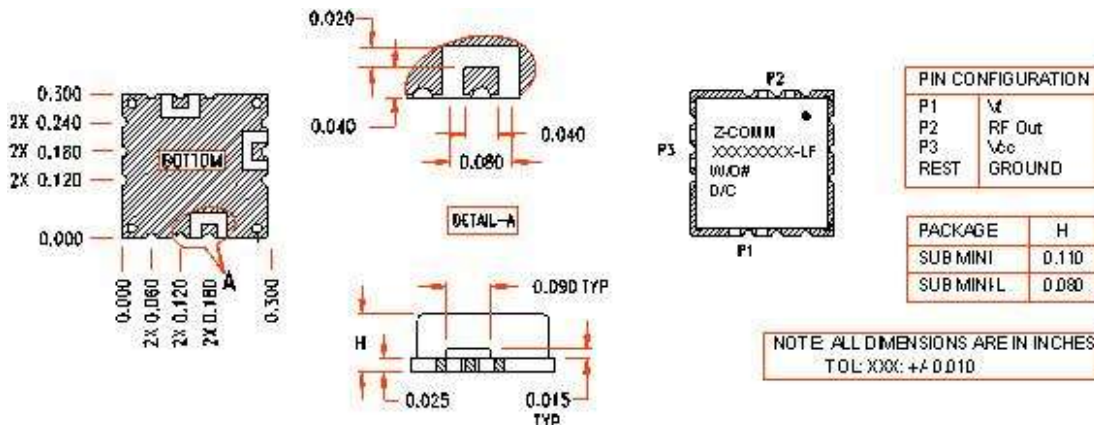
Power Curve, typ.



Footprint



Physical Dimensions



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