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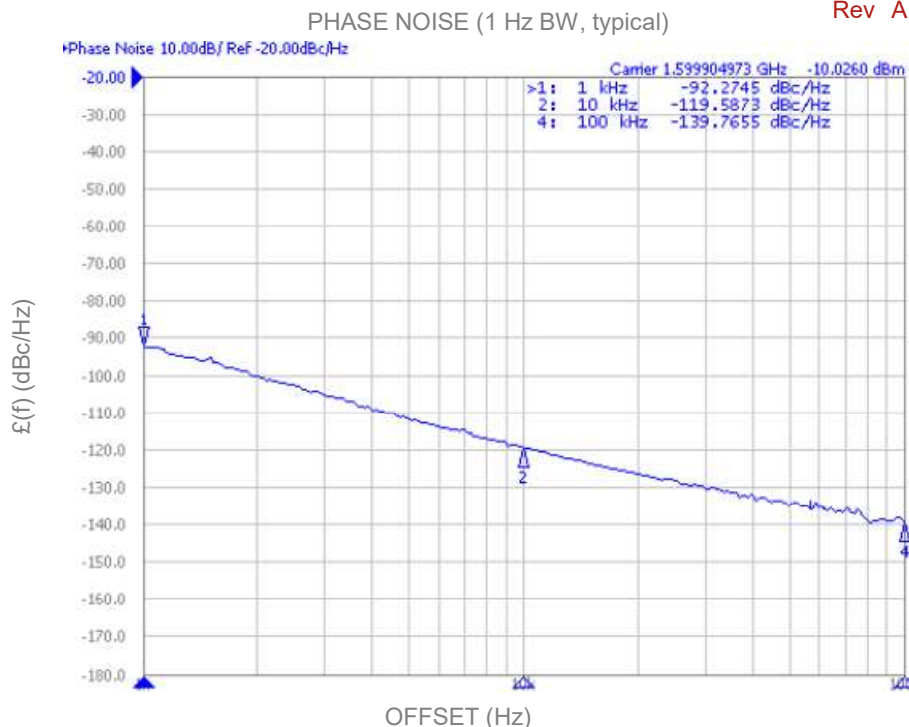
## Voltage-Controlled Oscillator Surface Mount Module

### Applications

Clock Source  
 Fixed Wireless Access

### Application Notes

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



Performance Specifications	Min	Typ	Max	Units
Oscillation Frequency Range	1600		1600	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-119		dBc/Hz
Harmonic Suppression (2nd)		-25	-20	dBc
Tuning Voltage	1.5		4	Vdc
Tuning Sensitivity (avg.)		5		MHz/V
Power Output	-5.5	-3.25	-1	dBm
Load Impedance		50		$\Omega$
Input Capacitance			50	pF
Pushing			1	MHz/V
Pulling (14 dB Return Loss, Any Phase)			1	MHz
Operating Temperature Range	-40		85	$^{\circ}\text{C}$
Package Style	MINI-16-SM			

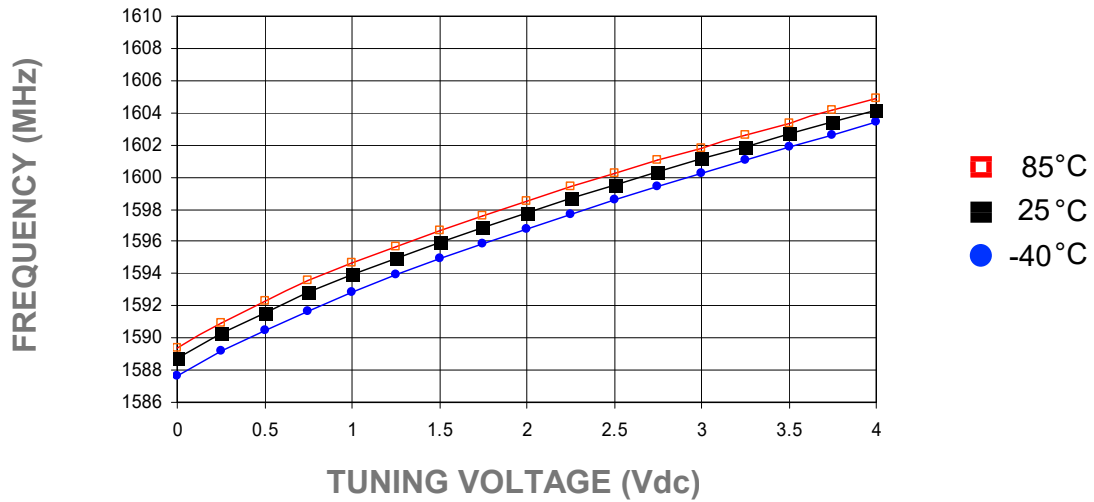
Power Supply Requirements	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		5		Vdc
Supply Current (Icc)		16	21	mA

### Additional Notes

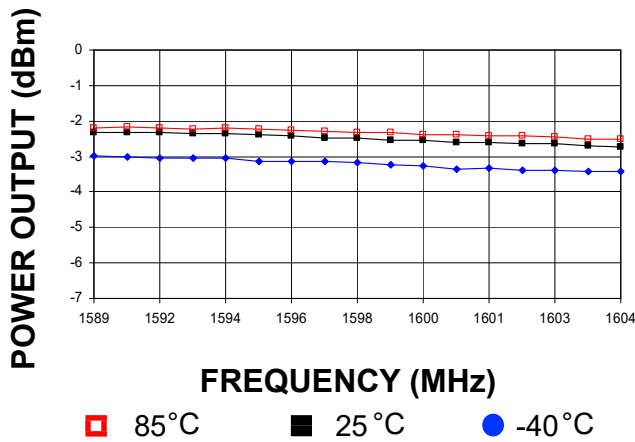
Guaranteed to oscillate at 0V tuning.  
 The max Vtune that would not break this VCO is 10v.  
 Guaranteed to oscillate the following tuning voltage 0V =< Vtune < 1.5V, 4V < Vtune =< 7V.  
 The max Vcc that would not break this VCO is 6v.  
 Non-Harmonics : -90 dBc\_max, 0 MHz <Fout< 3000MHz condition

Phase Noise 10kHz offset : -114 dBc/Hz\_max  
 Supply Voltage : 4.75 V\_min, 5.25 V\_max

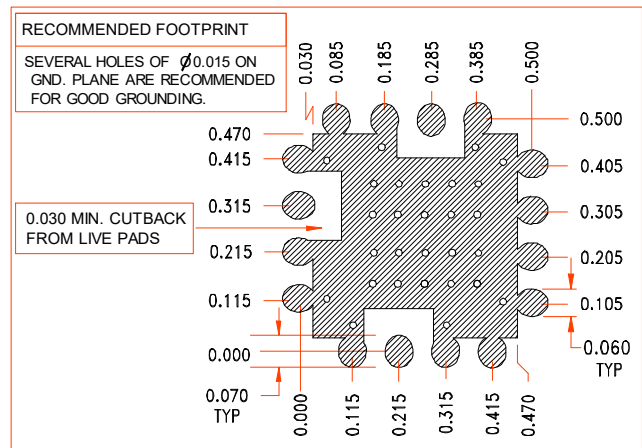
Tuning Curve, typ.



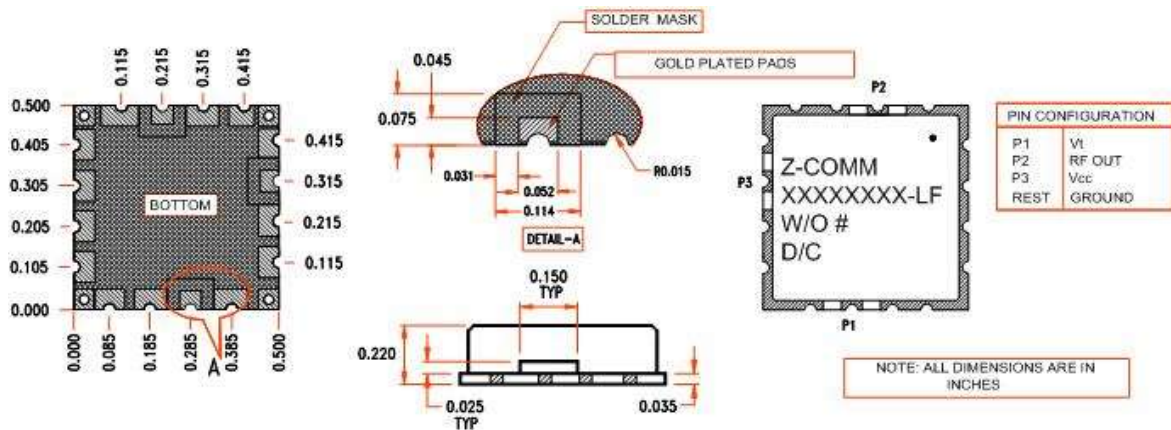
Power Curve, typ.



Footprint



Physical Dimensions



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