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## Voltage-Controlled Oscillator Surface Mount Module

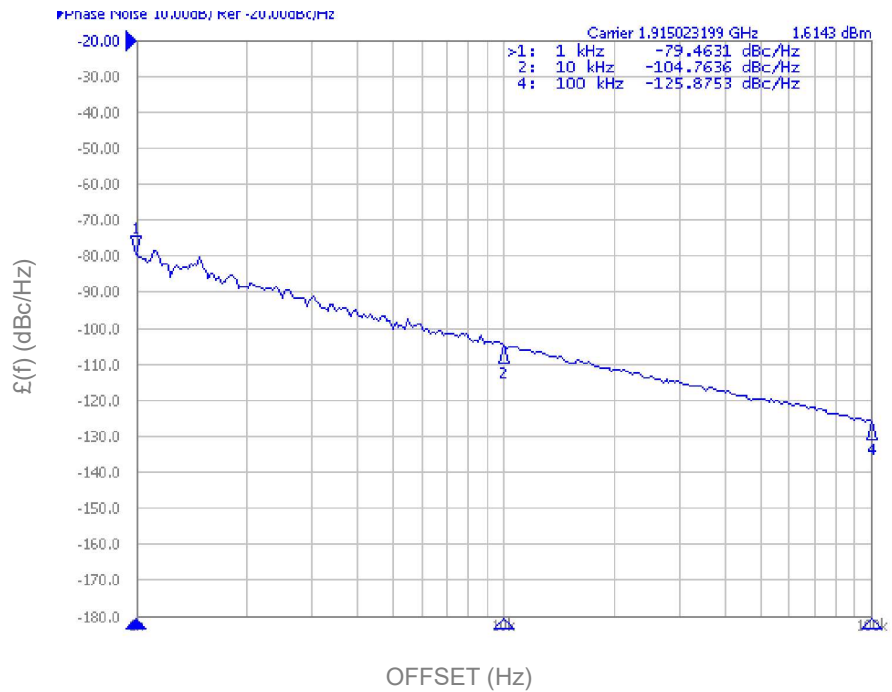
### Applications

Radio Equipment  
 Satellite Communications

### Application Notes

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

PHASE NOISE (1 Hz BW, typical)



Performance Specifications	Min	Typ	Max	Units
Oscillation Frequency Range	1795		2035	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-104		dBc/Hz
Harmonic Suppression (2nd)		-20	-15	dBc
Tuning Voltage	0.5		4.5	Vdc
Tuning Sensitivity (avg.)		69		MHz/V
Power Output	2	5.5	9	dBm
Load Impedance		50		$\Omega$
Input Capacitance			50	pF
Pushing			3	MHz/V
Pulling (12 dB Return Loss, Any Phase)			1.5	MHz
Operating Temperature Range	-40		85	$^{\circ}\text{C}$
Package Style	MINI-16-SM			

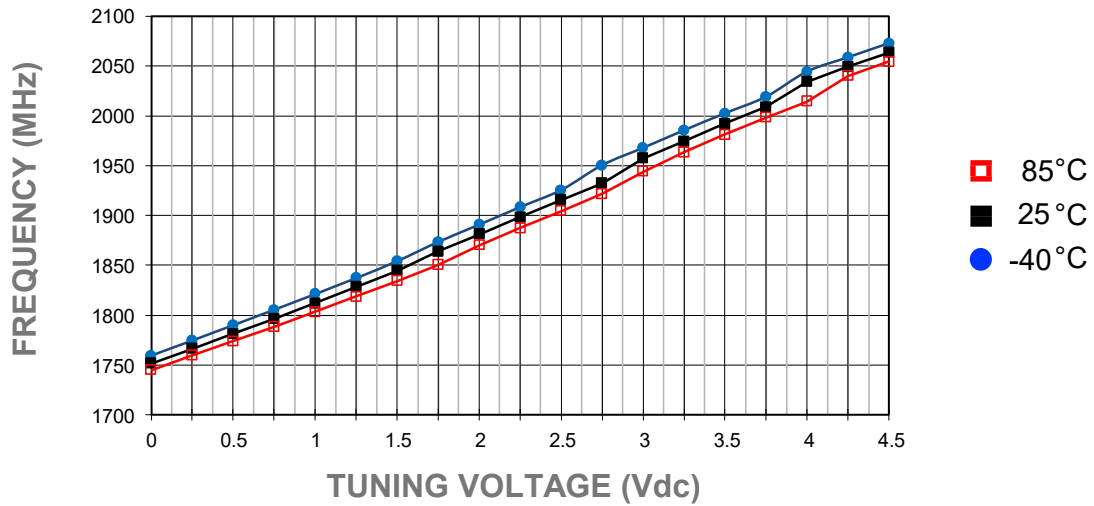
Power Supply Requirements	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		5		Vdc
Supply Current (Icc)		30	36	mA

### Additional Notes

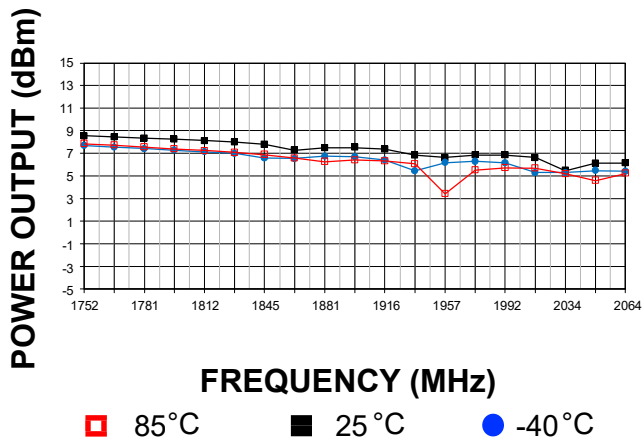
**PCB PLATING: Gold (Au) over Nickel (Ni)**  
**Plating Thickness**  
**Gold (Au): 4 to 8  $\mu\text{in.}$  (max)**  
**Nickel (Ni): 100 to 150  $\mu\text{in.}$  (max)**

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

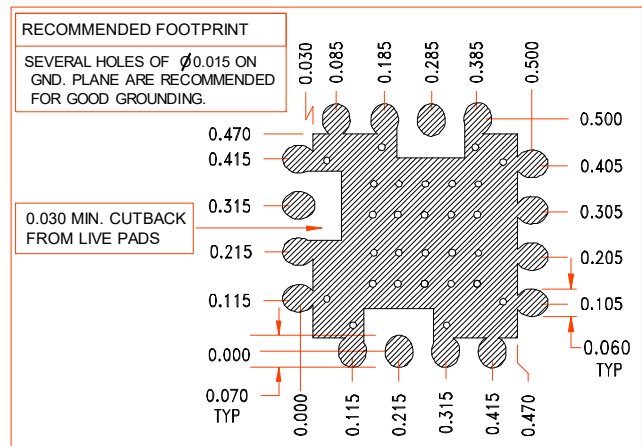
Tuning Curve, typ.



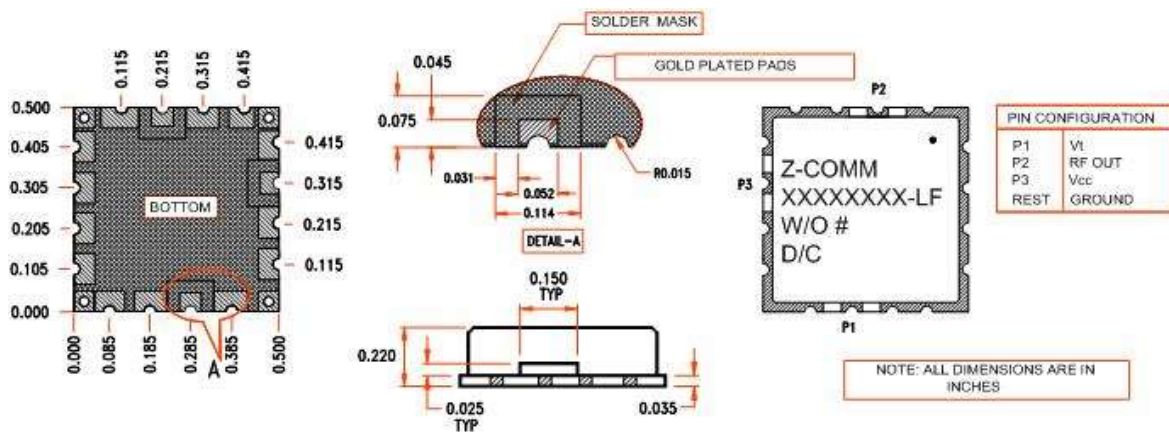
Power Curve, typ.



Footprint



Physical Dimensions



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