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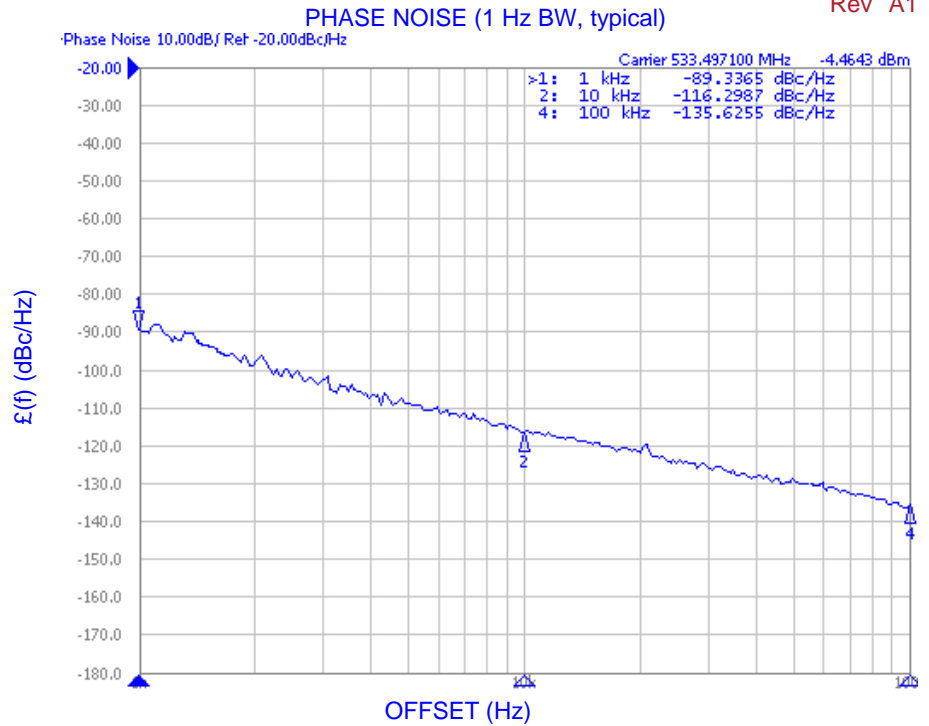
### Voltage-Controlled Oscillator Surface Mount Module

#### Applications

- Mobitex Radios
- RF Modems
- 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	526		541	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-115		dBc/Hz
Harmonic Suppression (2nd)		-10	-9	dBc
Tuning Voltage	0.5		4.5	Vdc
Tuning Sensitivity (avg.)		11		MHz/V
Power Output	-4	0	4	dBm
Load Impedance		50		$\Omega$
Input Capacitance			50	pF
Pushing			.4	MHz/V
Pulling (14 dB Return Loss, Any Phase)			.4	MHz
Operating Temperature Range	-40		85	$^{\circ}\text{C}$
Package Style	MINI-16M-LOW			

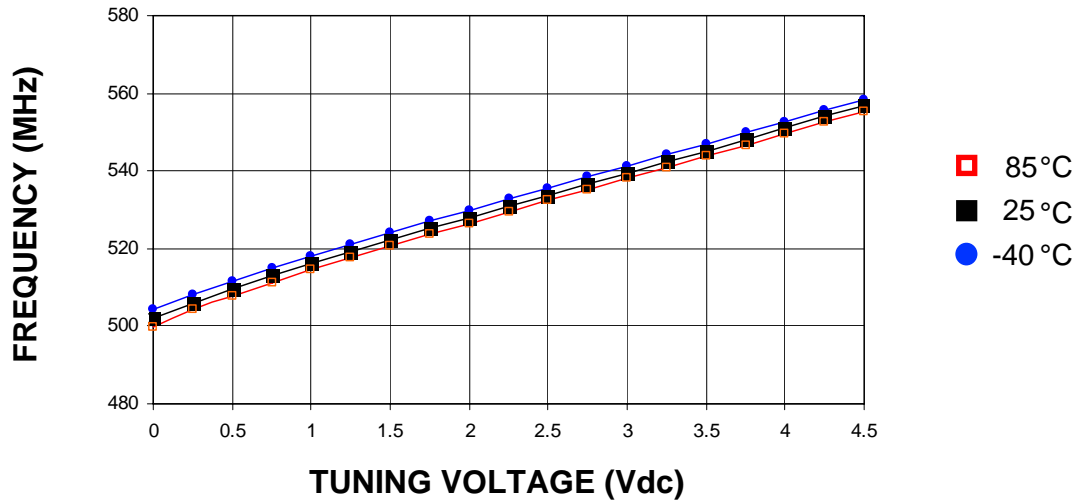
#### Power Supply Requirements

	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		5		Vdc
Supply Current (Icc)		9	12	mA

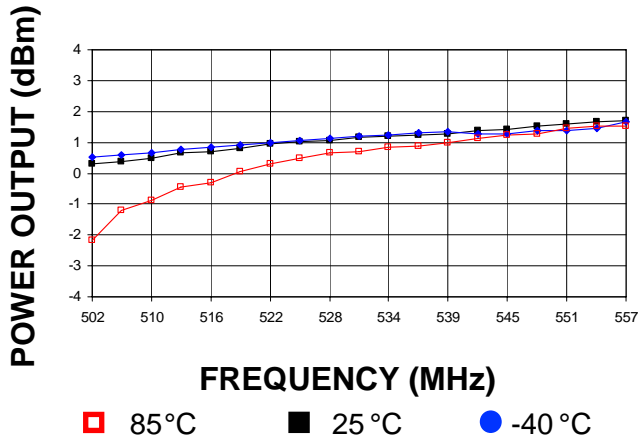
#### Additional Notes

Pin 4 is no connect or ground.

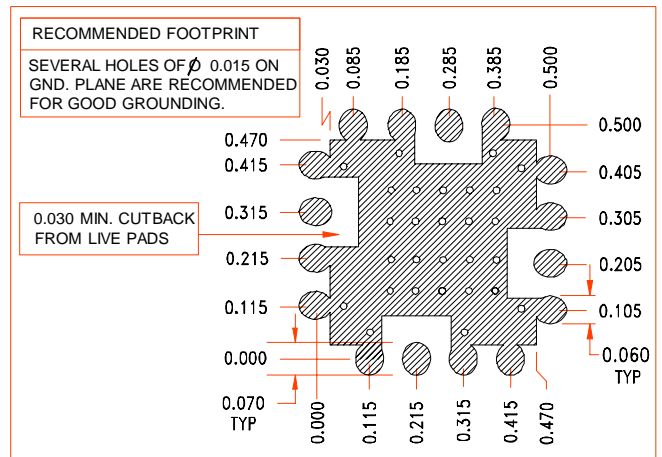
Tuning Curve, typ.



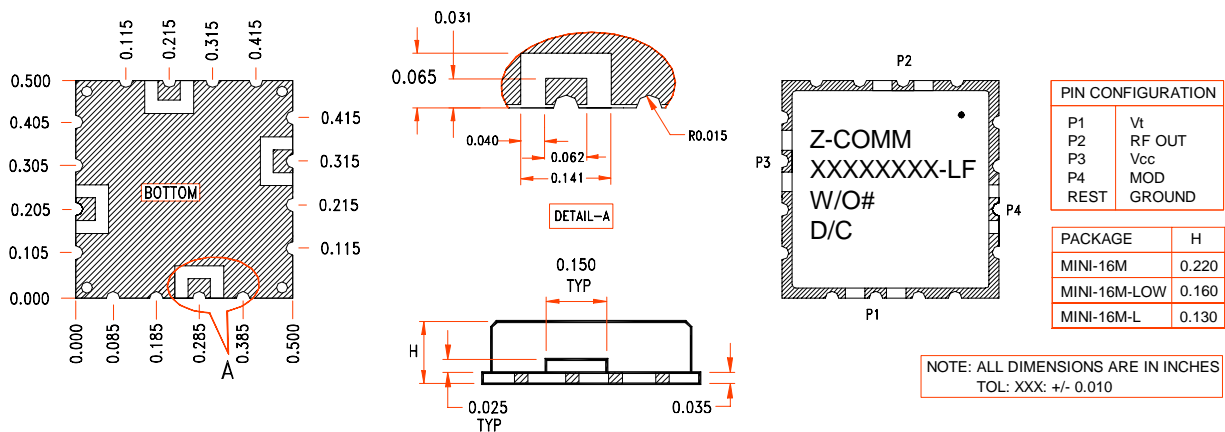
Power Curve, typ.



Footprint



Physical Dimensions



PIN CONFIGURATION	
P1	Vt
P2	RF OUT
P3	Vcc
P4	MOD
REST	GROUND

PACKAGE	H
MINI-16M	0.220
MINI-16M-LOW	0.160
MINI-16M-L	0.130

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