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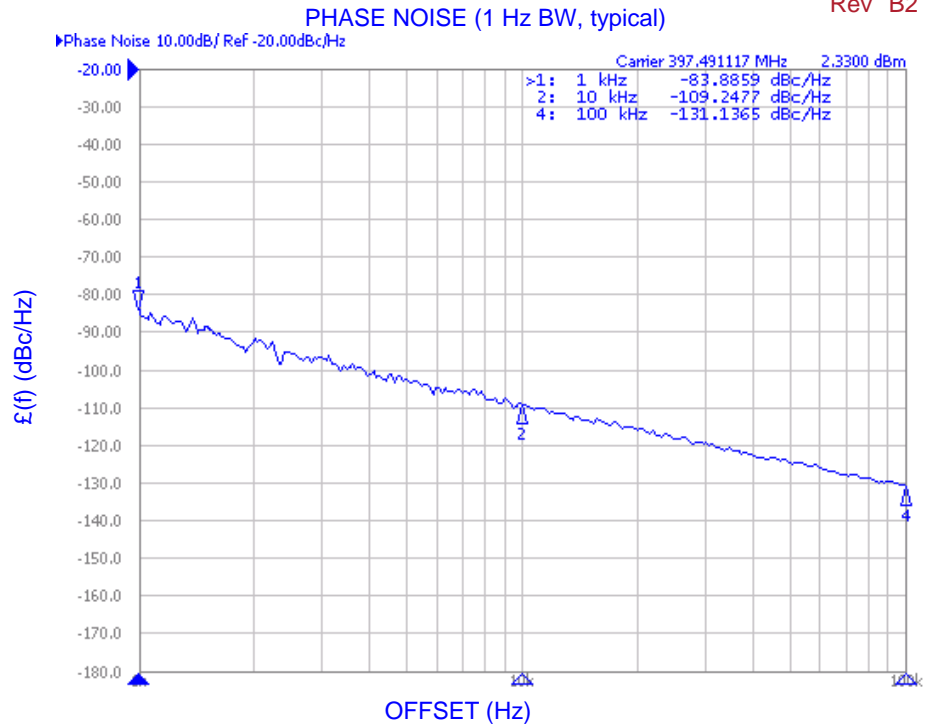
### Voltage-Controlled Oscillator Surface Mount Module

#### Applications

- UHF Radios
- Test Instrumentation
- Mobile Radios

#### Application Notes

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



#### Performance Specifications

|                                        | Min | Typ      | Max | Units              |
|----------------------------------------|-----|----------|-----|--------------------|
| Oscillation Frequency Range            | 375 |          | 420 | MHz                |
| Phase Noise @ 10 kHz offset (1 Hz BW)  |     | -110     |     | dBc/Hz             |
| Harmonic Suppression (2nd)             |     | -10      | -8  | dBc                |
| Tuning Voltage                         | 0.5 |          | 4.5 | Vdc                |
| Tuning Sensitivity (avg.)              |     | 17       |     | MHz/V              |
| Power Output                           | 5   | 7        | 9   | dBm                |
| Load Impedance                         |     | 50       |     | $\Omega$           |
| Input Capacitance                      |     |          | 250 | pF                 |
| Pushing                                |     |          | 2   | MHz/V              |
| Pulling (12 dB Return Loss, Any Phase) |     |          | 1   | MHz                |
| Operating Temperature Range            | -40 |          | 85  | $^{\circ}\text{C}$ |
| Package Style                          |     | MINI-14S |     |                    |

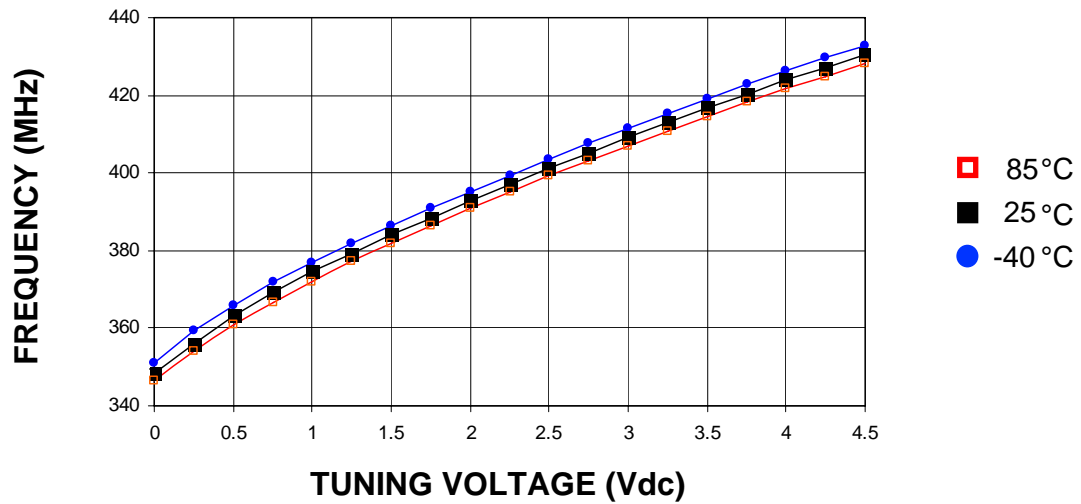
#### Power Supply Requirements

|                            | Min | Typ | Max | Units |
|----------------------------|-----|-----|-----|-------|
| Supply Voltage (Vcc, nom.) |     | 5   |     | Vdc   |
| Supply Current (Icc)       |     | 12  | 16  | mA    |

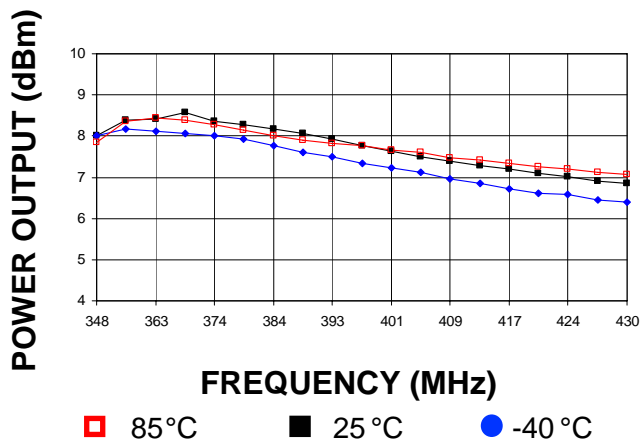
#### Additional Notes

Rev B2 after ECO.

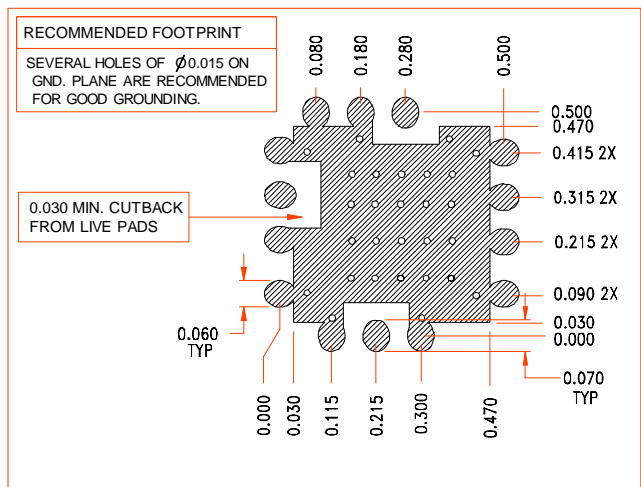
Tuning Curve, typ.



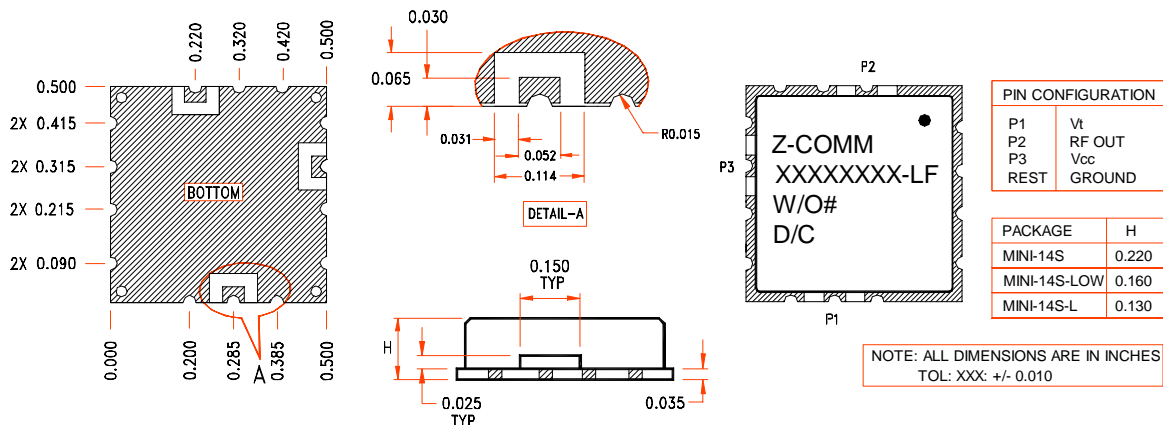
Power Curve, typ.



Footprint



Physical Dimensions



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