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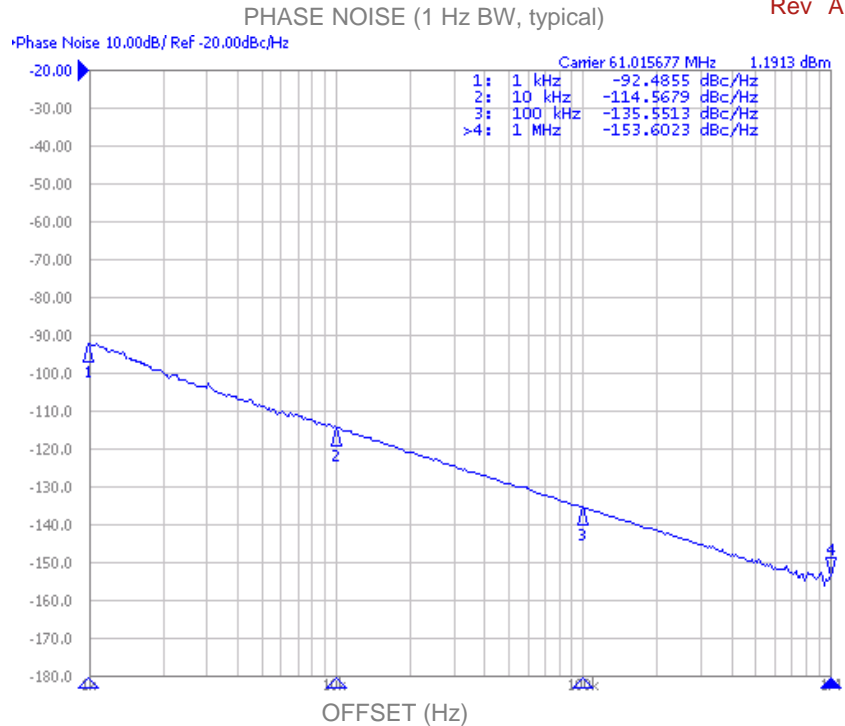
## Voltage-Controlled Oscillator Surface Mount Module

### Applications

- Wireless Comm
- Test Instrumentation
- 

### Application Notes

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



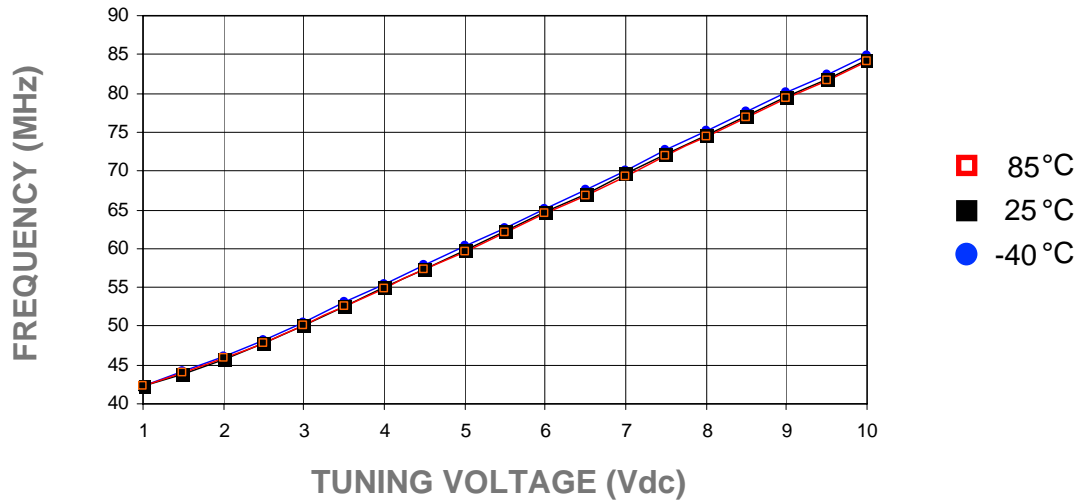
| Performance Specifications             | Min | Typ      | Max | Units              |
|--|-----|----------|-----|--------------------|
| Oscillation Frequency Range            | 45  |          | 77  | MHz                |
| Phase Noise @ 10 kHz offset (1 Hz BW)  |     | -113     |     | dBc/Hz             |
| Harmonic Suppression (2nd)             |     | -6       | -5  | dBc                |
| Tuning Voltage                         | 1   |          | 10  | Vdc                |
| Tuning Sensitivity (avg.)              |     | 5        |     | MHz/V              |
| Power Output                           | 1.5 | 5.5      | 9.5 | dBm                |
| Load Impedance                         |     | 50       |     | $\Omega$           |
| Input Capacitance                      |     |          | 500 | pF                 |
| Pushing                                |     |          | 1   | MHz/V              |
| Pulling (14 dB Return Loss, Any Phase) |     |          | .5  | 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)       |     | 23  | 28  | mA    |

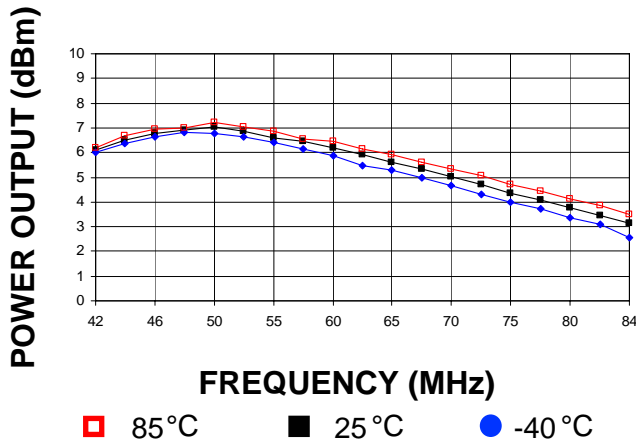
### Additional Notes

This VCO is not guaranteed to oscillate when the tuning voltage is below 1 volt.

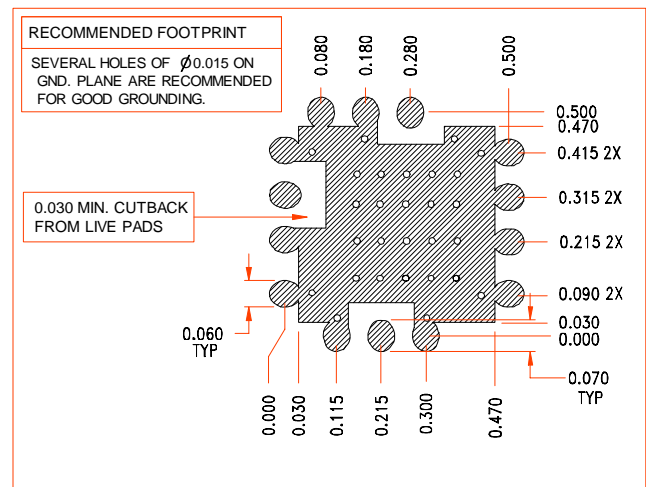
Tuning Curve, typ.



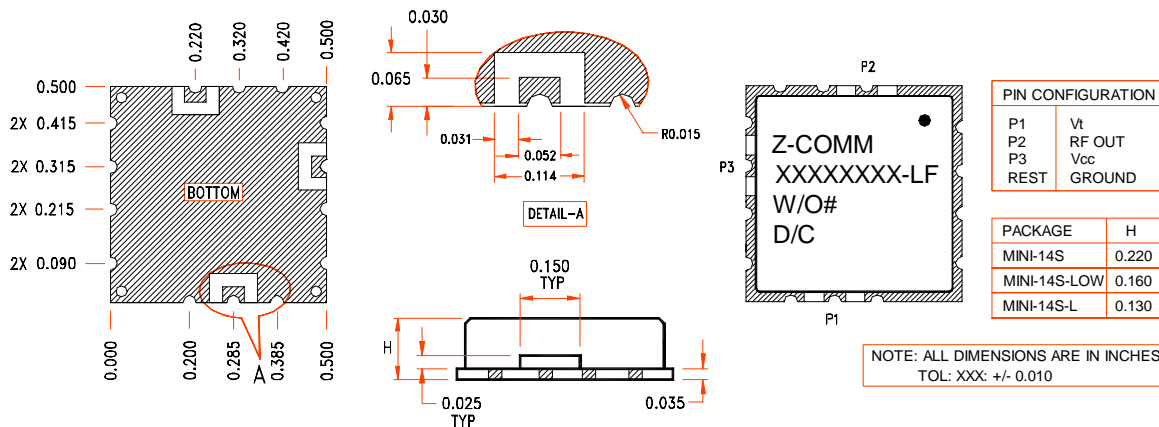
Power Curve, typ.



Footprint



Physical Dimensions



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