

### PHASE NOISE (1 Hz BW, typical)

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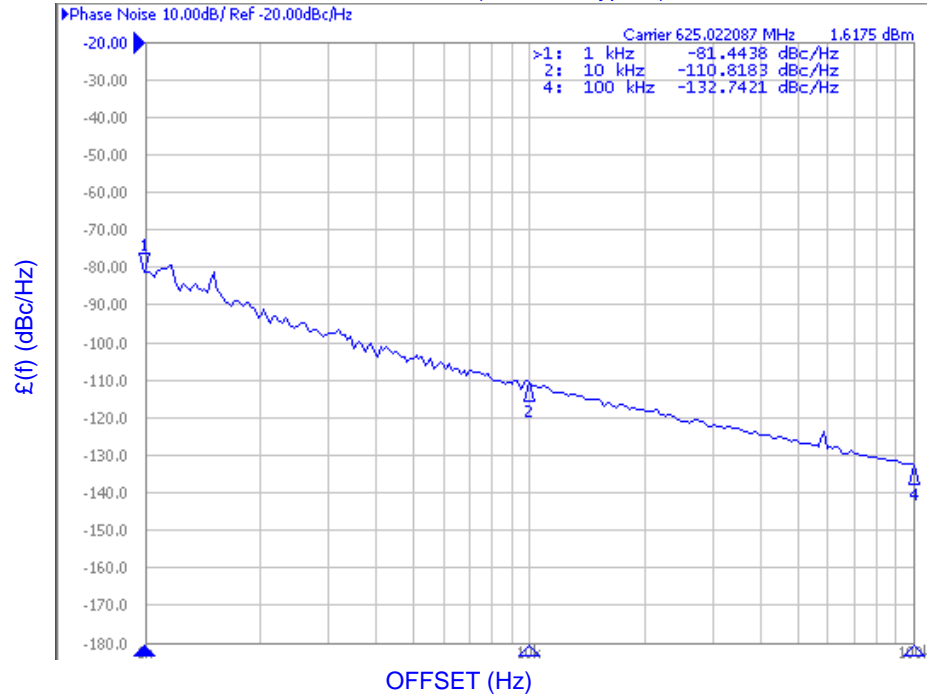
### Voltage-Controlled Oscillator Surface Mount Module

#### Applications

- Wireless Radios
- Basestations
- 

#### Application Notes

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



#### Performance Specifications

|  | Min | Typ      | Max | Units              |
|--|-----|----------|-----|--------------------|
| Oscillation Frequency Range            | 575 |          | 675 | MHz                |
| Phase Noise @ 10 kHz offset (1 Hz BW)  |     | -111     |     | dBc/Hz             |
| Harmonic Suppression (2nd)             |     | -8       |     | dBc                |
| Tuning Voltage                         | 0.5 |          | 4.5 | Vdc                |
| Tuning Sensitivity (avg.)              |     | 43       |     | MHz/V              |
| Power Output                           | -4  | 0        | 4   | dBm                |
| Load Impedance                         |     | 50       |     | $\Omega$           |
| Input Capacitance                      |     |          | 150 | pF                 |
| Pushing                                |     |          | 2   | MHz/V              |
| Pulling (14 dB Return Loss, Any Phase) |     |          | 1   | MHz                |
| Operating Temperature Range            | -40 |          | 85  | $^{\circ}\text{C}$ |
| Package Style                          |     | MINI-14S |     |                    |

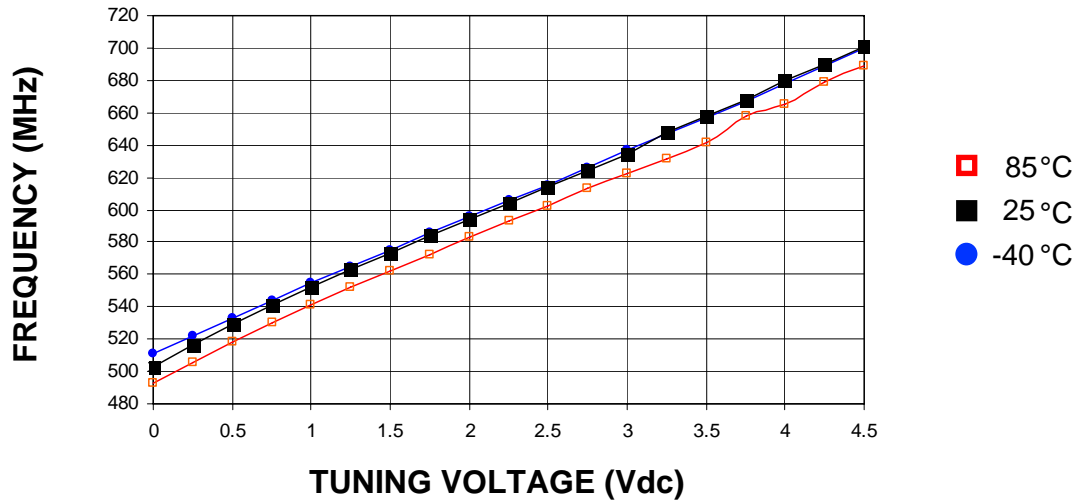
#### Power Supply Requirements

|                            | Min | Typ | Max | Units |
|----------------------------|-----|-----|-----|-------|
| Supply Voltage (Vcc, nom.) |     | 5   |     | Vdc   |
| Supply Current (Icc)       |     | 25  | 30  | mA    |

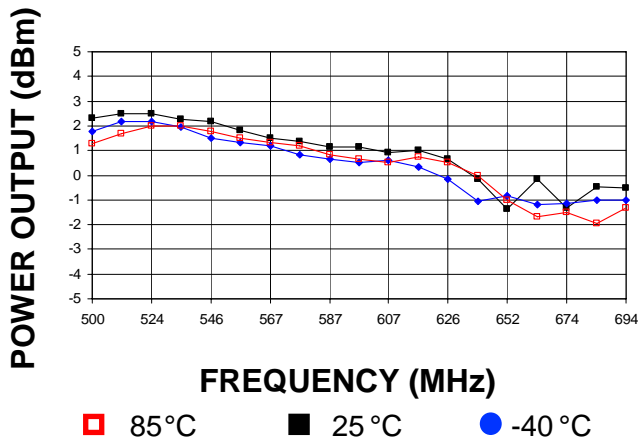
#### Additional Notes

Phase Noise @ 100 kHz offset (1 Hz BW, max.): -130 dBc/Hz

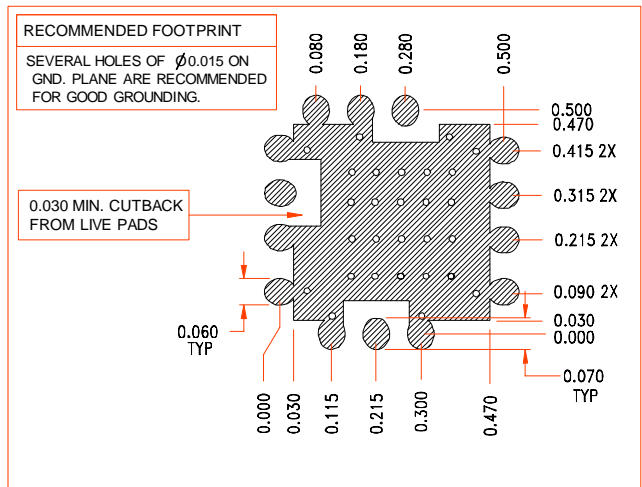
Tuning Curve, typ.



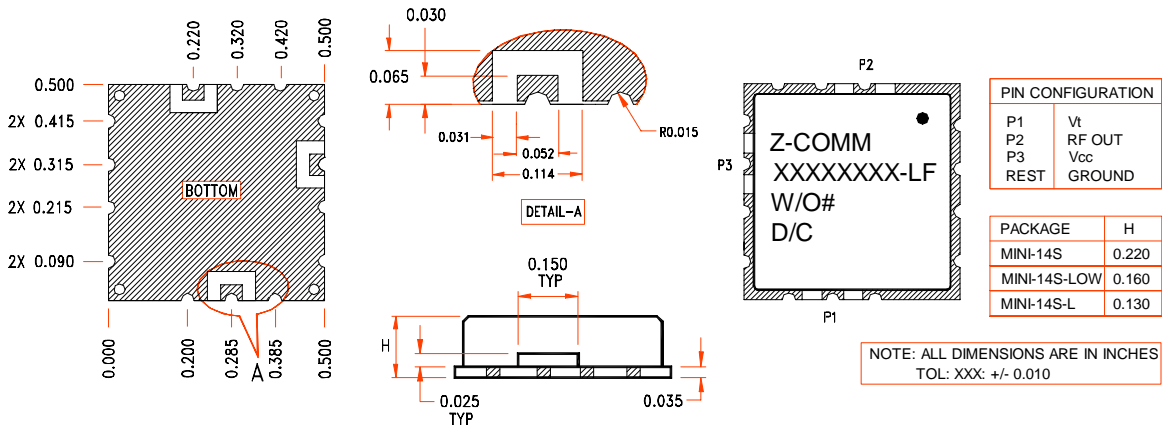
Power Curve, typ.



Footprint



Physical Dimensions



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