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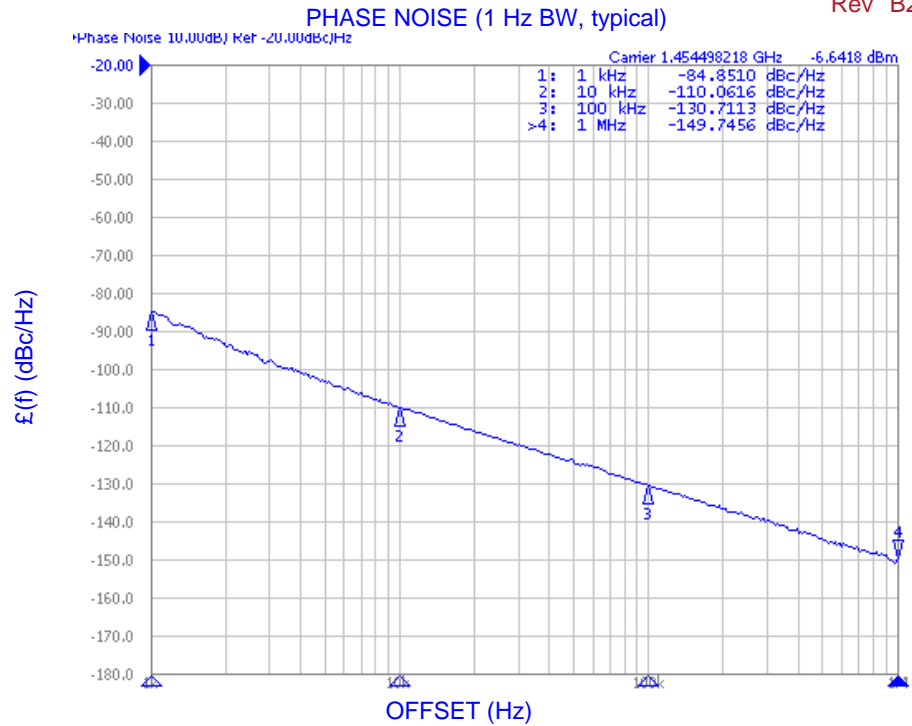
### Voltage-Controlled Oscillator Surface Mount Module

#### Applications

- Wireless radios
- Mobile Communications
- 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            | 1440      |      | 1470 | MHz                |
| Phase Noise @ 10 kHz offset (1 Hz BW)  |           | -110 |      | dBc/Hz             |
| Harmonic Suppression (2nd)             |           | -27  | -20  | dBc                |
| Tuning Voltage                         | 1         |      | 5    | Vdc                |
| Tuning Sensitivity (avg.)              |           | 16   |      | MHz/V              |
| Power Output                           | -6.5      | -2.5 | 1.5  | dBm                |
| Load Impedance                         |           | 50   |      | $\Omega$           |
| Input Capacitance                      |           |      | 50   | pF                 |
| Pushing                                |           |      | 1    | MHz/V              |
| Pulling (14 dB Return Loss, Any Phase) |           |      | 1    | MHz                |
| Operating Temperature Range            | -40       |      | 85   | $^{\circ}\text{C}$ |
| Package Style                          | MINI-14MS |      |      |                    |

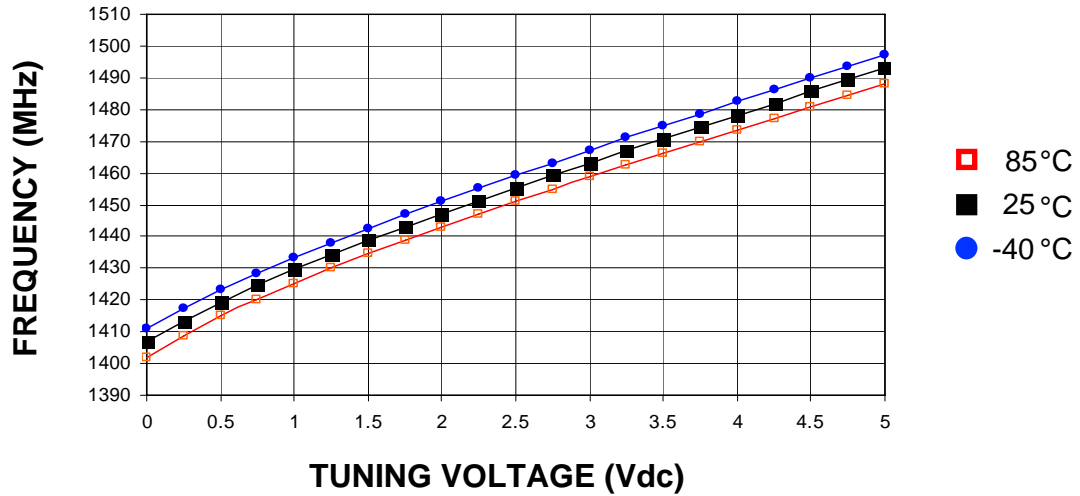
#### Power Supply Requirements

|                            | Min | Typ | Max | Units |
|----------------------------|-----|-----|-----|-------|
| Supply Voltage (Vcc, nom.) |     | 5   |     | Vdc   |
| Supply Current (Icc)       |     | 22  | 28  | mA    |

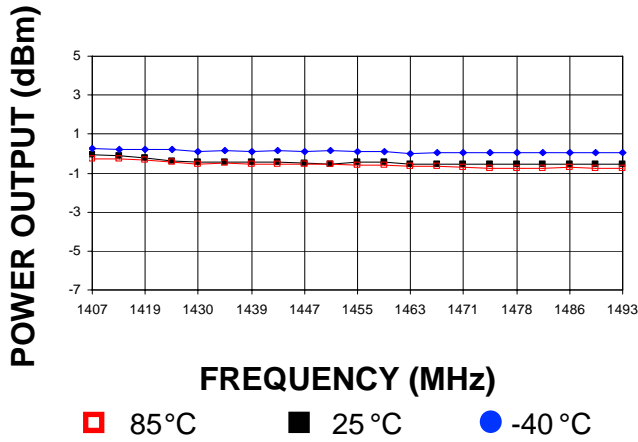
#### Additional Notes

Pin 4, Mod port is not used and could be grounded.

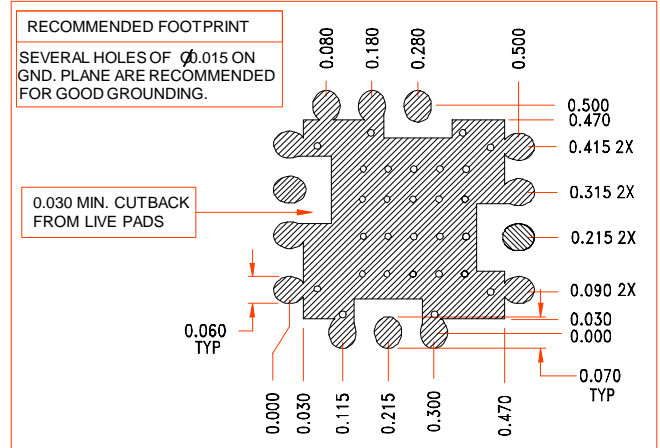
Tuning Curve, typ.



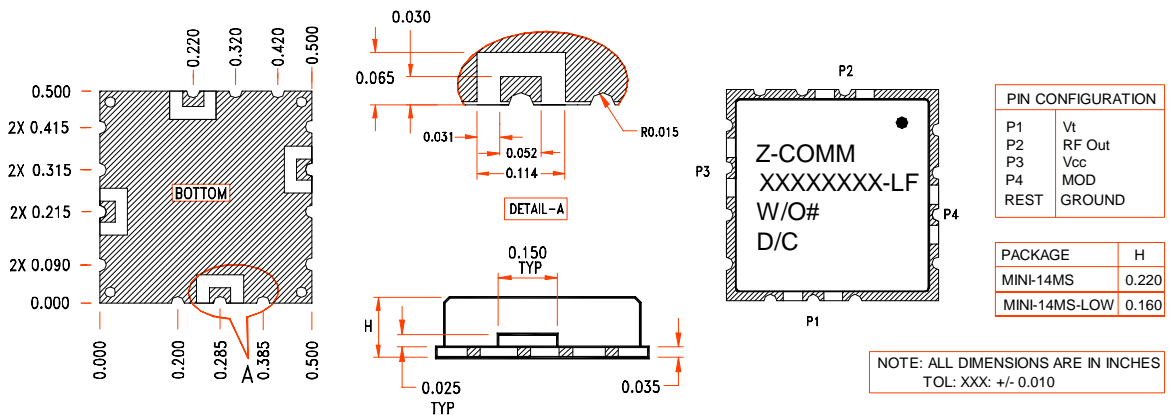
Power Curve, typ.



Footprint



Physical Dimensions



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