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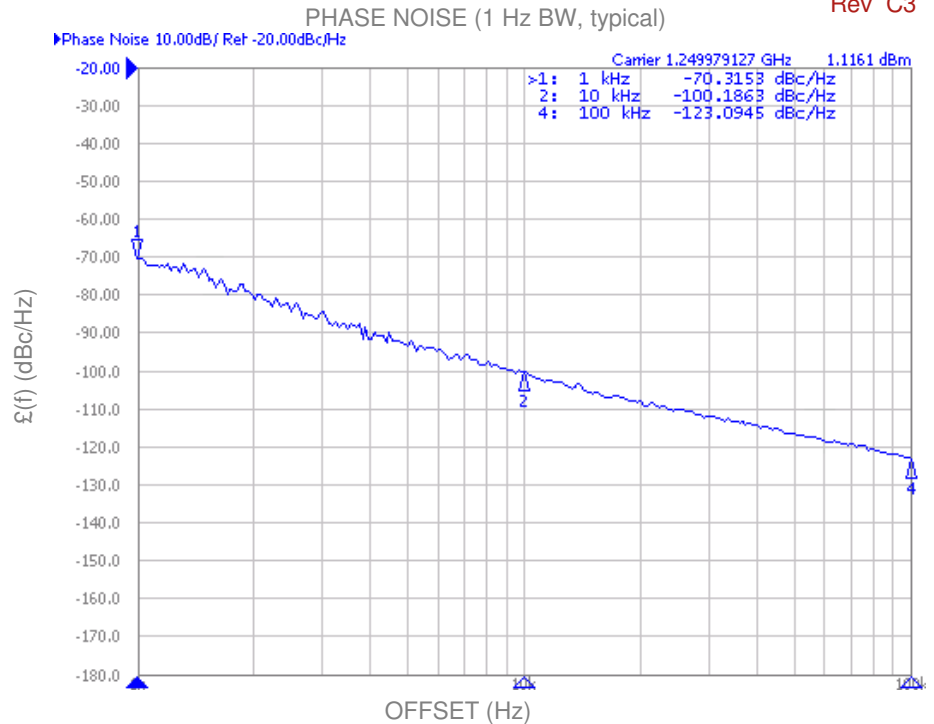
## Voltage-Controlled Oscillator Surface Mount Module

### Applications

- Personal Communication Systems
- Earthstations
- Portable Radios

### Application Notes

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

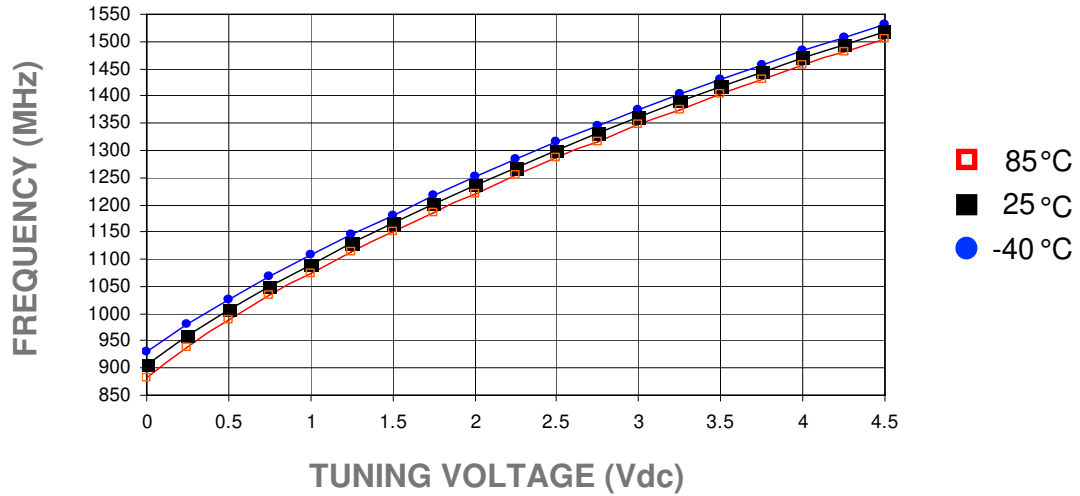


| Performance Specifications             | Min        | Typ | Max  | Units              |
|--|------------|-----|------|--------------------|
| Oscillation Frequency Range            | 1100       |     | 1400 | MHz                |
| Phase Noise @ 10 kHz offset (1 Hz BW)  |            | -99 |      | dBc/Hz             |
| Harmonic Suppression (2nd)             |            | -15 | -9   | dBc                |
| Tuning Voltage                         | 0.5        |     | 4.5  | Vdc                |
| Tuning Sensitivity (avg.)              |            | 130 |      | MHz/V              |
| Power Output                           | 5          | 7.5 | 10   | dBm                |
| Load Impedance                         |            | 50  |      | $\Omega$           |
| Input Capacitance                      |            |     | 75   | pF                 |
| Pushing                                |            |     | 3    | MHz/V              |
| Pulling (14 dB Return Loss, Any Phase) |            |     | 13   | MHz                |
| Operating Temperature Range            | -40        |     | 85   | $^{\circ}\text{C}$ |
| Package Style                          | MINI-14S-L |     |      |                    |

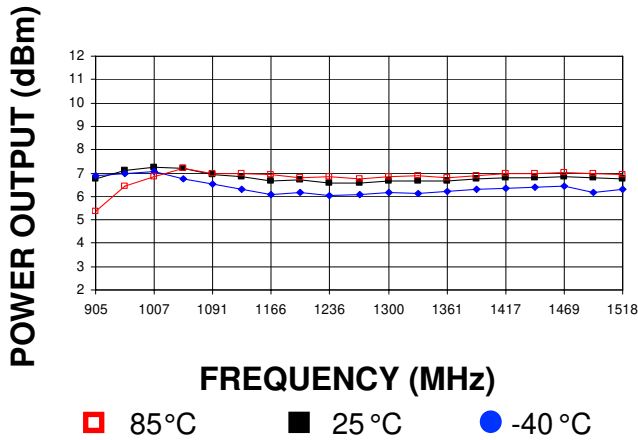
| Power Supply Requirements  | Min | Typ | Max | Units |
|----------------------------|-----|-----|-----|-------|
| Supply Voltage (Vcc, nom.) |     | 5   |     | Vdc   |
| Supply Current (Icc)       |     | 15  | 18  | mA    |

### Additional Notes

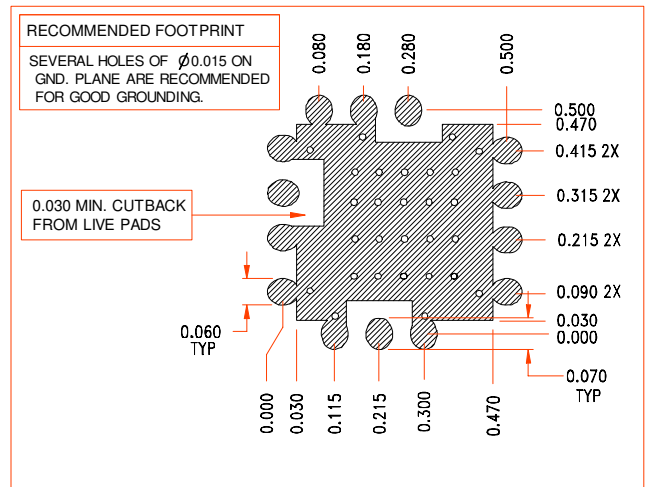
Tuning Curve, typ.



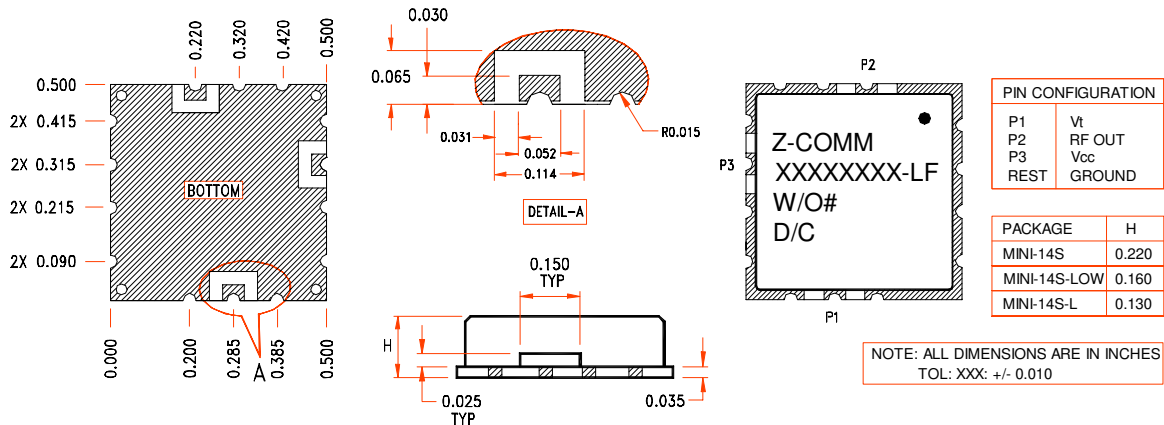
Power Curve, typ.



Footprint



Physical Dimensions



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