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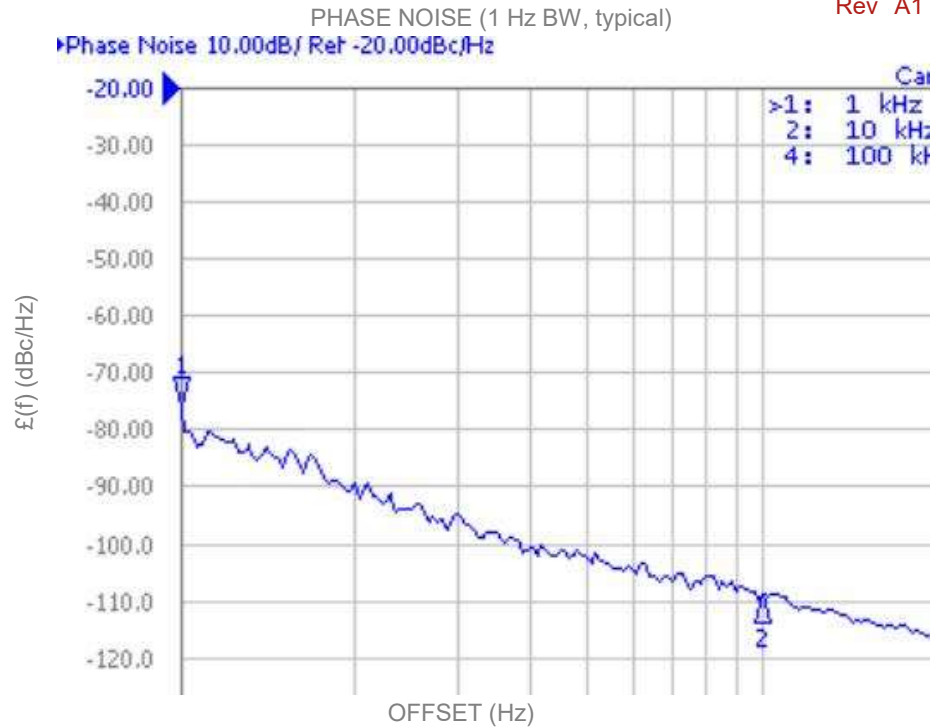
## Voltage-Controlled Oscillator Surface Mount Module

### Applications

Digital Radios  
 Basestations  
 Mobile Communications

### Application Notes

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

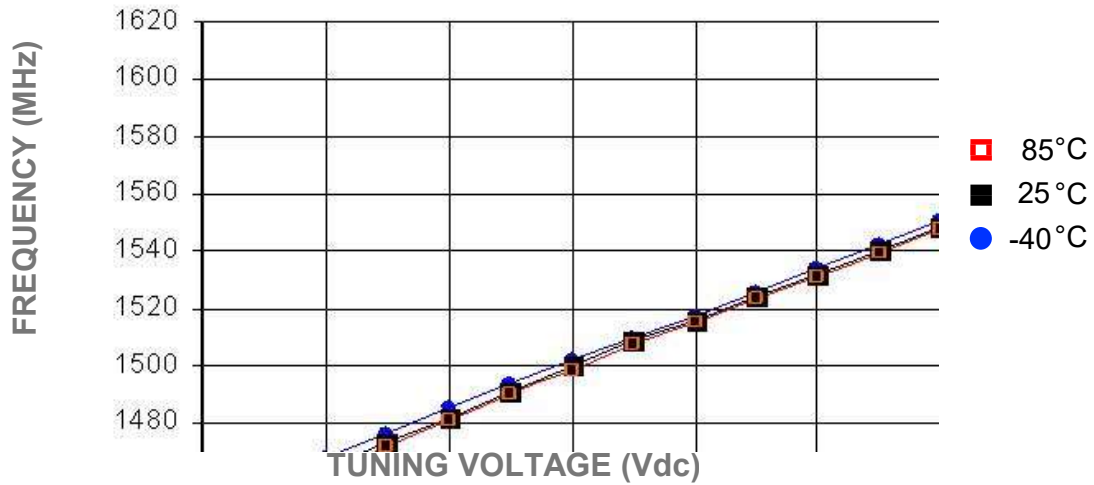


| Performance Specifications             | Min        | Typ  | Max  | Units              |
|--|------------|------|------|--------------------|
| Oscillation Frequency Range            | 1500       |      | 1580 | MHz                |
| Phase Noise @ 10 kHz offset (1 Hz BW)  |            | -108 |      | dBc/Hz             |
| Harmonic Suppression (2nd)             |            | -20  | -18  | dBc                |
| Tuning Voltage                         | 0.5        |      | 4.5  | Vdc                |
| Tuning Sensitivity (avg.)              |            | 35   |      | MHz/V              |
| Power Output                           | -2.5       | .5   | 3.5  | 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-14S-L |      |      |                    |

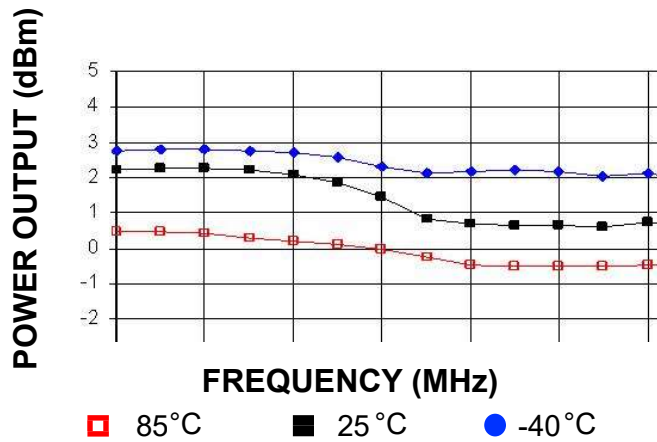
| Power Supply Requirements  | Min | Typ | Max | Units |
|----------------------------|-----|-----|-----|-------|
| Supply Voltage (Vcc, nom.) |     | 5   |     | Vdc   |
| Supply Current (Icc)       |     | 23  | 28  | mA    |

### Additional Notes

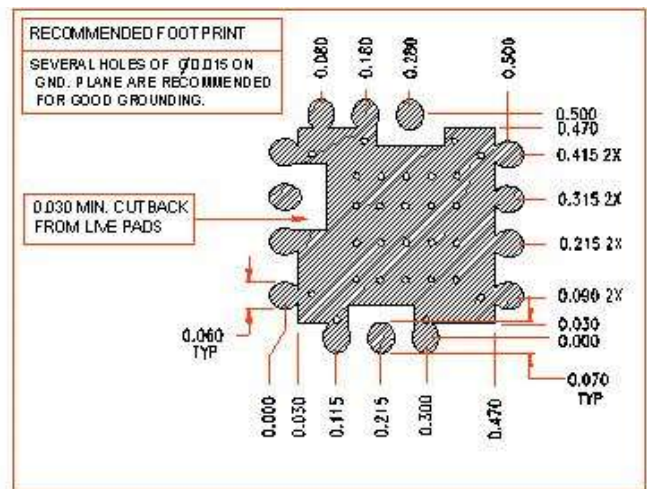
Tuning Curve, typ.



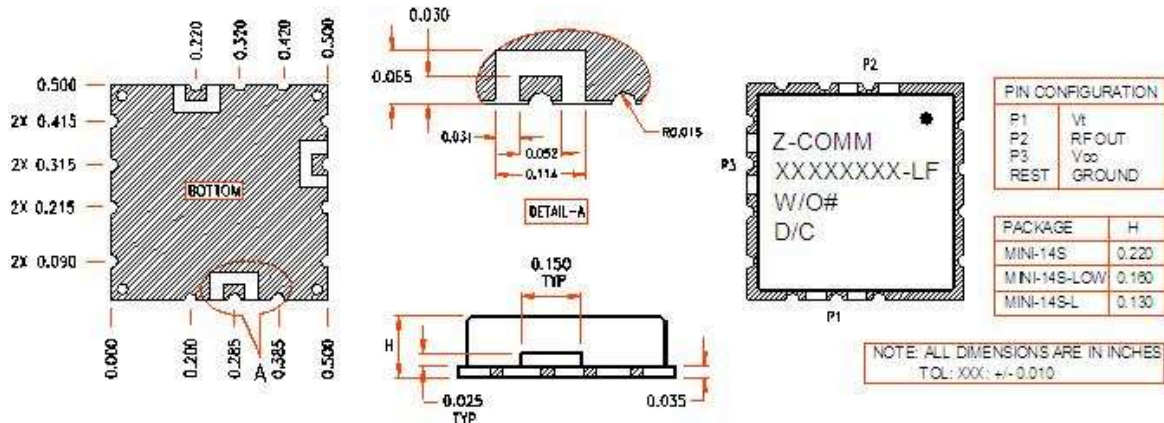
Power Curve, typ.



Footprint



Physical Dimensions



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