

## PHASE NOISE (1 Hz BW, typical)

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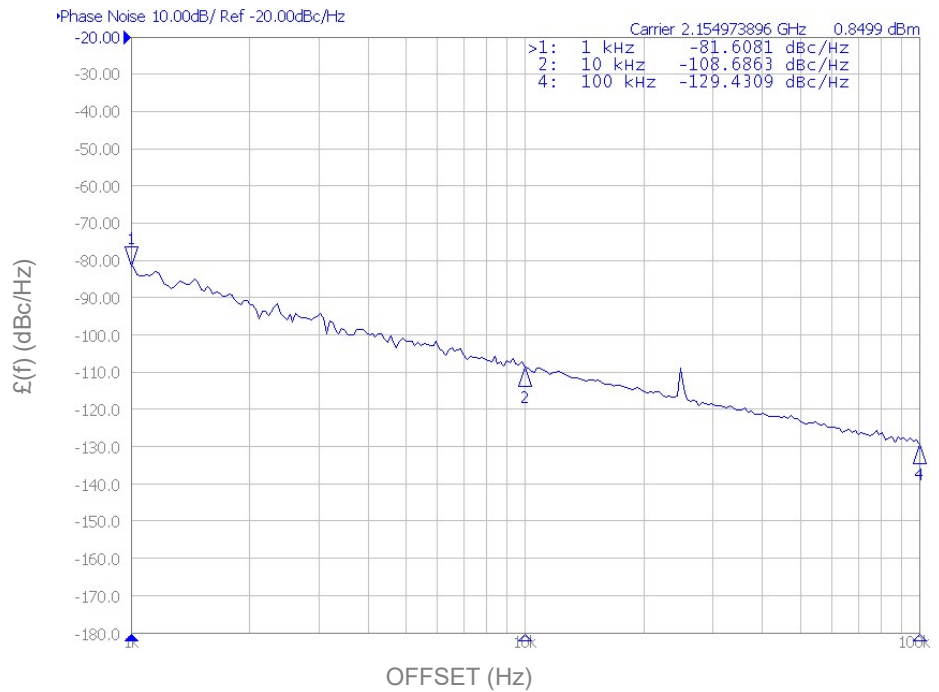
## Voltage-Controlled Oscillator Surface Mount Module

### Applications

Satellite Communications  
 Microwave Radios

### Application Notes

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



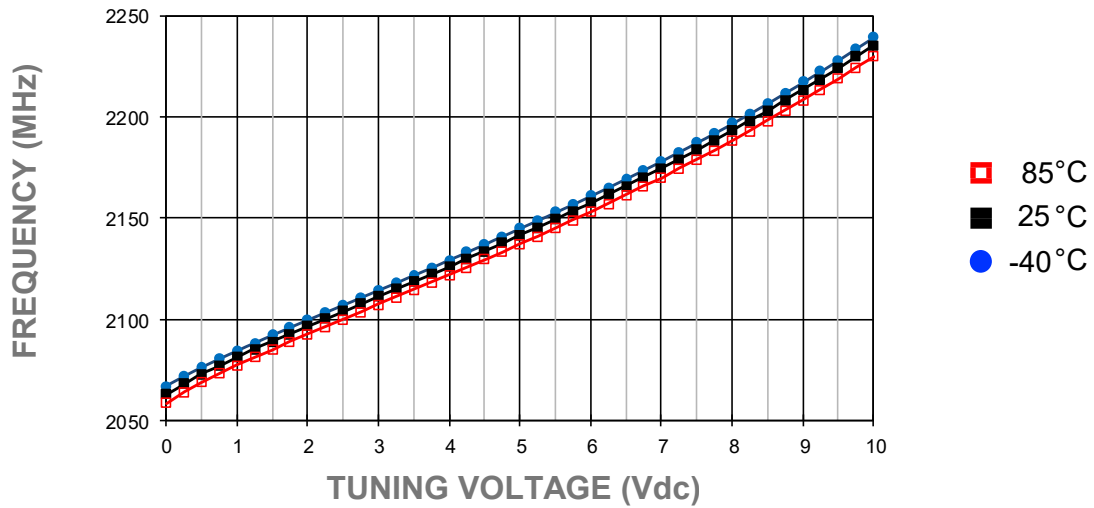
| Performance Specifications             | Min  | Typ     | Max  | Units              |
|--|------|---------|------|--------------------|
| Oscillation Frequency Range            | 2100 |         | 2210 | MHz                |
| Phase Noise @ 10 kHz offset (1 Hz BW)  |      | -108    |      | dBc/Hz             |
| Harmonic Suppression (2nd)             |      | -25     | -20  | dBc                |
| Tuning Voltage                         | 2    |         | 10   | Vdc                |
| Tuning Sensitivity (avg.)              |      | 18      |      | MHz/V              |
| Power Output                           | 3    | 5.5     | 8    | 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-16 |      |                    |

| Power Supply Requirements  | Min | Typ | Max | Units |
|----------------------------|-----|-----|-----|-------|
| Supply Voltage (Vcc, nom.) |     | 8   |     | Vdc   |
| Supply Current (Icc)       |     | 27  | 33  | mA    |

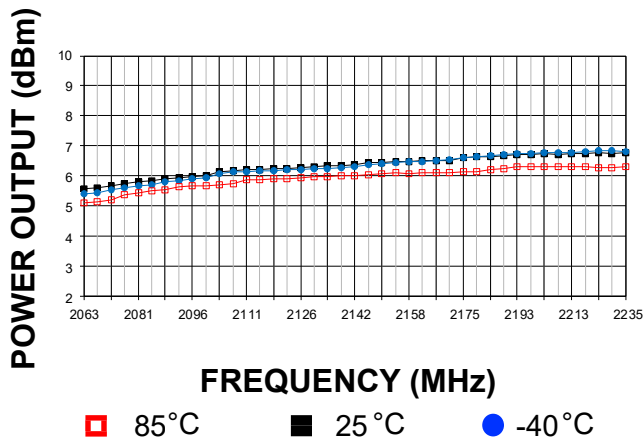
### Additional Notes

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

Tuning Curve, typ.



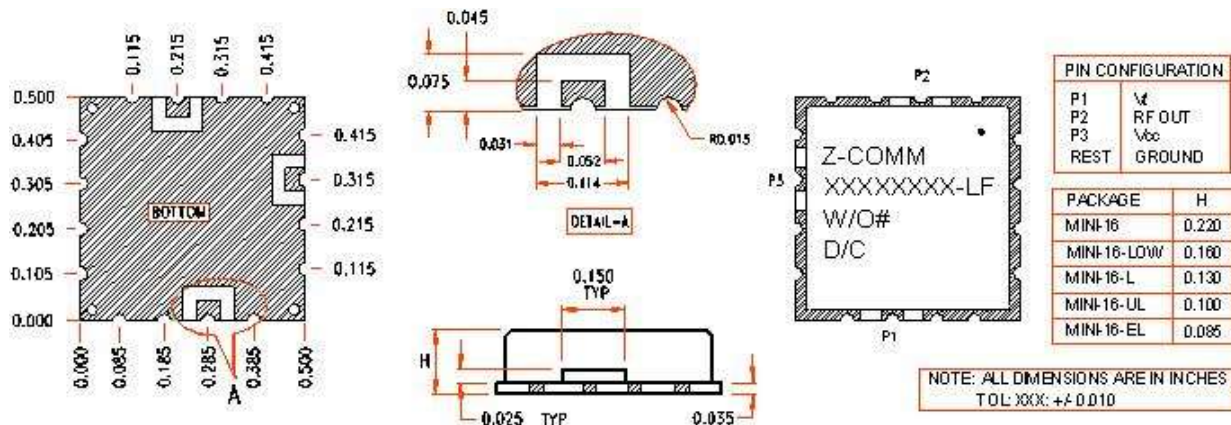
Power Curve, typ.



Footprint



Physical Dimensions



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