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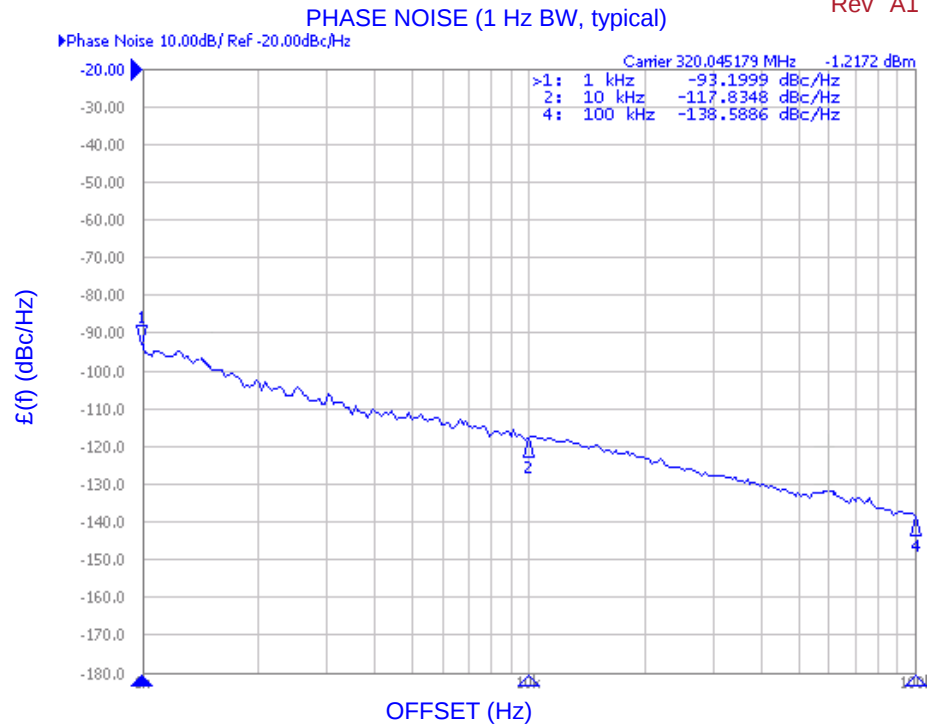
### Voltage-Controlled Oscillator Surface Mount Module

#### Applications

- Satellite Communications
- Upconverter/Downconverter
- 

#### Application Notes

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



#### Performance Specifications

|                                        | Min      | Typ  | Max | Units              |
|----------------------------------------|----------|------|-----|--------------------|
| Oscillation Frequency Range            | 320      |      | 320 | MHz                |
| Phase Noise @ 10 kHz offset (1 Hz BW)  |          | -117 |     | dBc/Hz             |
| Harmonic Suppression (2nd)             |          | -12  | -10 | dBc                |
| Tuning Voltage                         | 0        |      | 5   | Vdc                |
| Tuning Sensitivity (avg.)              |          | 10   |     | MHz/V              |
| Power Output                           | 0        | 2.5  | 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-16M |      |     |                    |

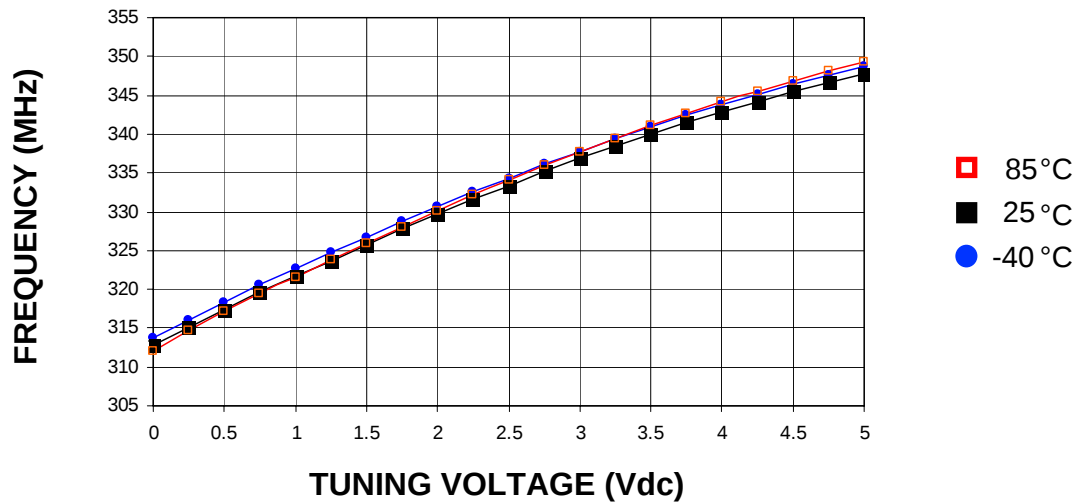
#### Power Supply Requirements

|                            | Min | Typ | Max | Units |
|----------------------------|-----|-----|-----|-------|
| Supply Voltage (Vcc, nom.) |     | 5   |     | Vdc   |
| Supply Current (Icc)       |     | 24  | 29  | mA    |

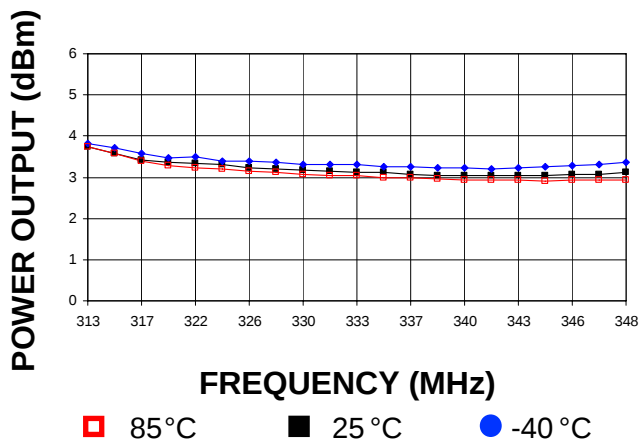
#### Additional Notes

Pin 4 is no connect or ground.

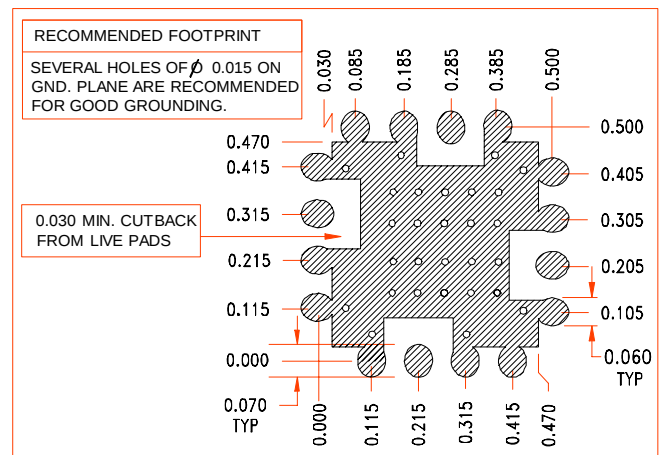
**Tuning Curve, typ.**



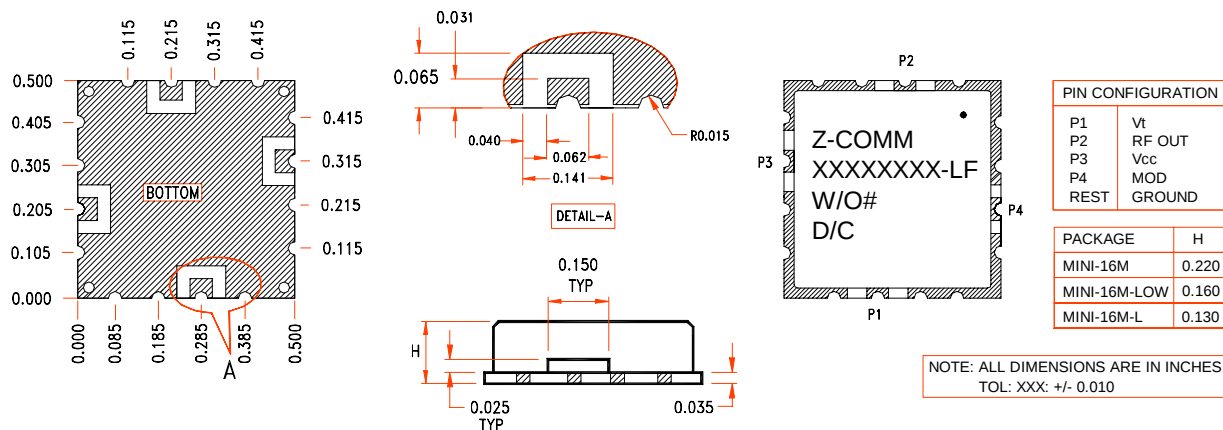
**Power Curve, typ.**



**Footprint**



**Physical Dimensions**



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