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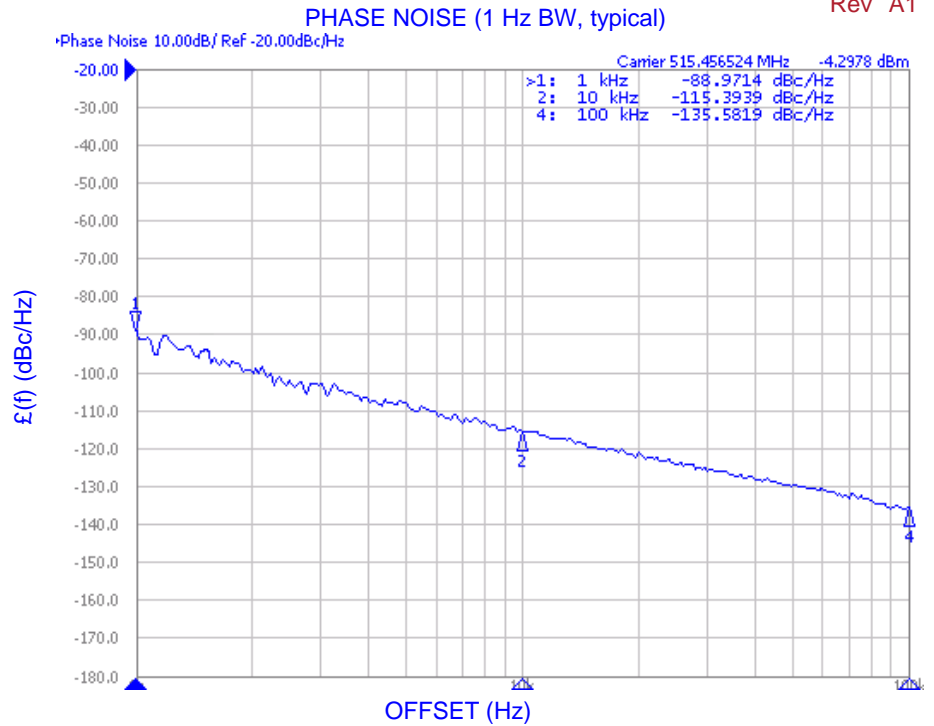
### Voltage-Controlled Oscillator Surface Mount Module

#### Applications

- Satellite Communications
- RF Modems
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#### Application Notes

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



#### Performance Specifications

|  | Min          | Typ  | Max | Units              |
|--|--------------|------|-----|--------------------|
| Oscillation Frequency Range            | 502          |      | 529 | MHz                |
| Phase Noise @ 10 kHz offset (1 Hz BW)  |              | -115 |     | dBc/Hz             |
| Harmonic Suppression (2nd)             |              | -10  | -9  | dBc                |
| Tuning Voltage                         | .5           |      | 4.5 | Vdc                |
| Tuning Sensitivity (avg.)              |              | 10   |     | MHz/V              |
| Power Output                           | -3           | 0    | 3   | dBm                |
| Load Impedance                         |              | 50   |     | $\Omega$           |
| Input Capacitance                      |              |      | 150 | 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-LOW |      |     |                    |

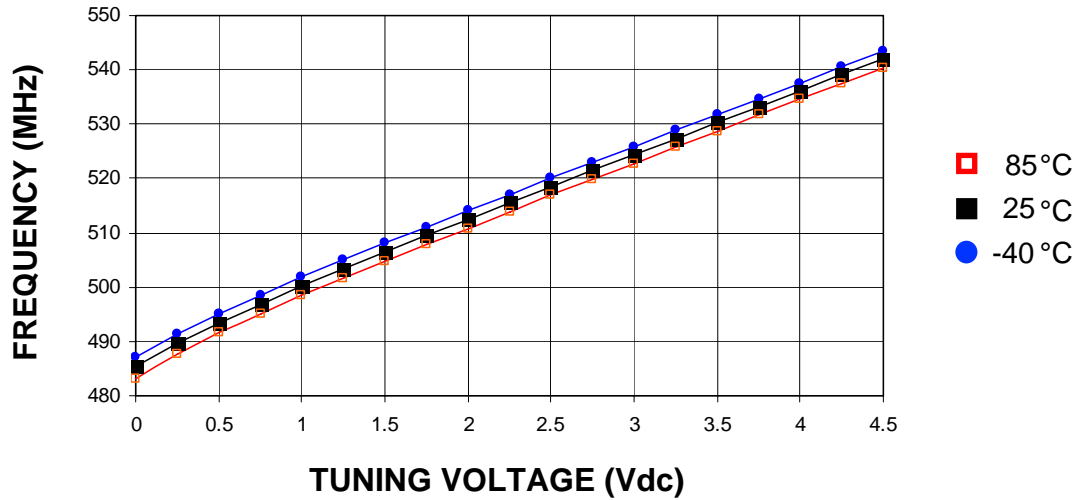
#### Power Supply Requirements

|                            | Min | Typ | Max | Units |
|----------------------------|-----|-----|-----|-------|
| Supply Voltage (Vcc, nom.) |     | 5   |     | Vdc   |
| Supply Current (Icc)       |     | 10  | 12  | mA    |

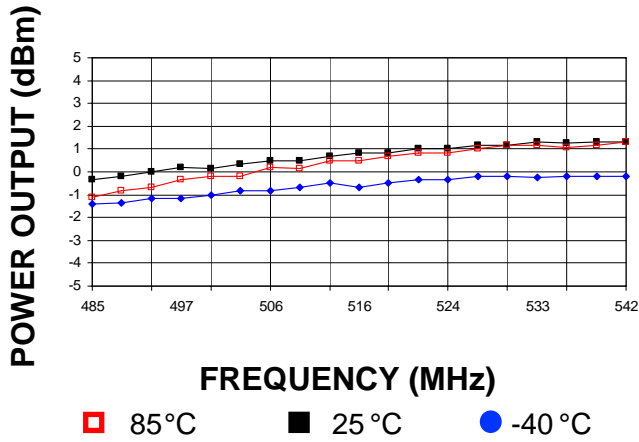
#### Additional Notes

Pin 4 is no connect or ground.

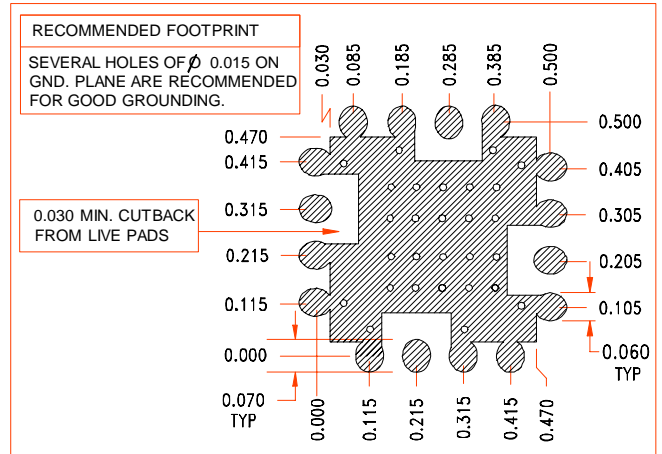
Tuning Curve, typ.



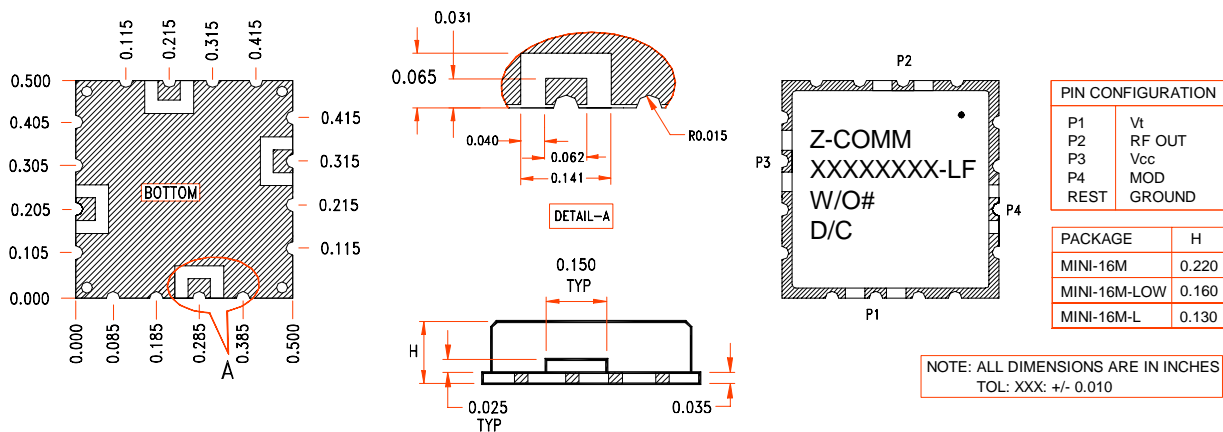
Power Curve, typ.



Footprint



Physical Dimensions



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