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### Voltage-Controlled Oscillator Surface Mount Module

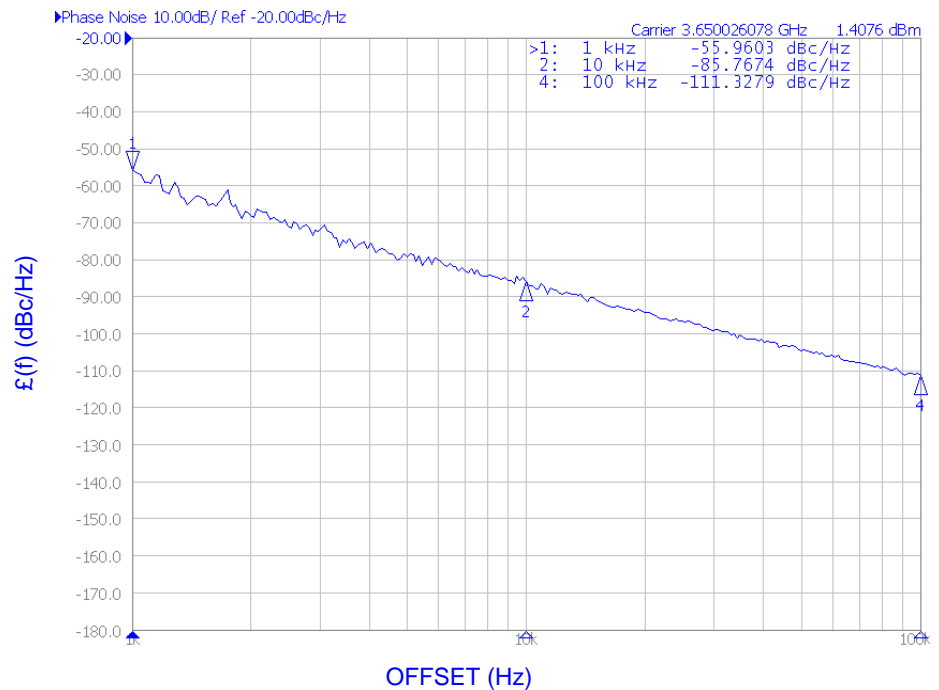
#### Applications

- Direct Broadcast
- Satellite Up/Down Conversion
- Microwave Radios

#### Application Notes

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

#### PHASE NOISE (1 Hz BW, typical)



#### Performance Specifications

|  | Min       | Typ | Max  | Units              |
|--|-----------|-----|------|--------------------|
| Oscillation Frequency Range            | 2900      |     | 4400 | MHz                |
| Phase Noise @ 10 kHz offset (1 Hz BW)  |           | -80 |      | dBc/Hz             |
| Harmonic Suppression (2nd)             |           | -18 | -8   | dBc                |
| Tuning Voltage                         | 1         |     | 22   | Vdc                |
| Tuning Sensitivity (avg.)              |           | 90  |      | MHz/V              |
| Power Output                           | 4         | 8   | 12   | dBm                |
| Load Impedance                         |           | 50  |      | $\Omega$           |
| Input Capacitance                      |           |     | 50   | pF                 |
| Pushing                                |           |     | 8    | MHz/V              |
| Pulling (14 dB Return Loss, Any Phase) |           |     | 18   | MHz                |
| Operating Temperature Range            | 0         |     | 50   | $^{\circ}\text{C}$ |
| Package Style                          | MINI-16-L |     |      |                    |

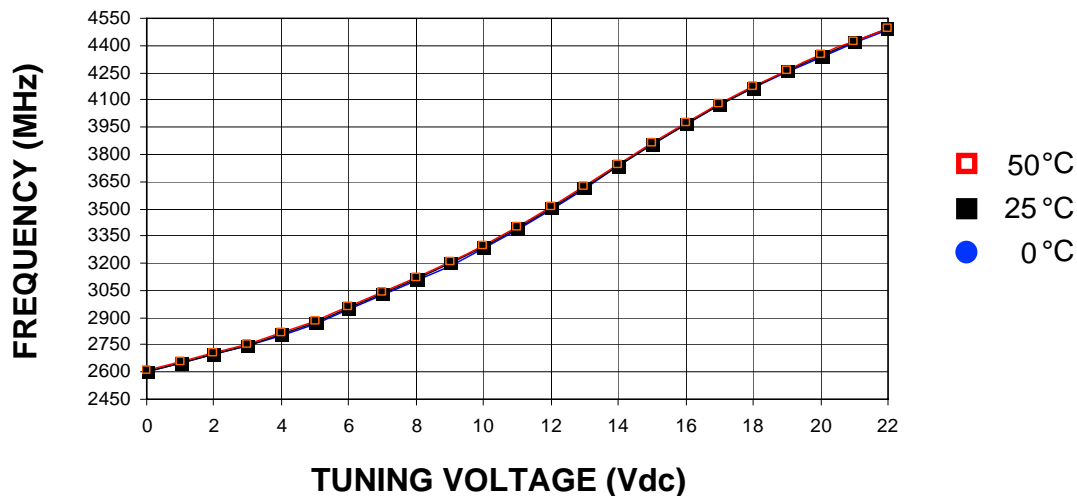
#### Power Supply Requirements

|                            | Min | Typ | Max | Units |
|----------------------------|-----|-----|-----|-------|
| Supply Voltage (Vcc, nom.) |     | 8   |     | Vdc   |
| Supply Current (Icc)       |     | 26  | 30  | mA    |

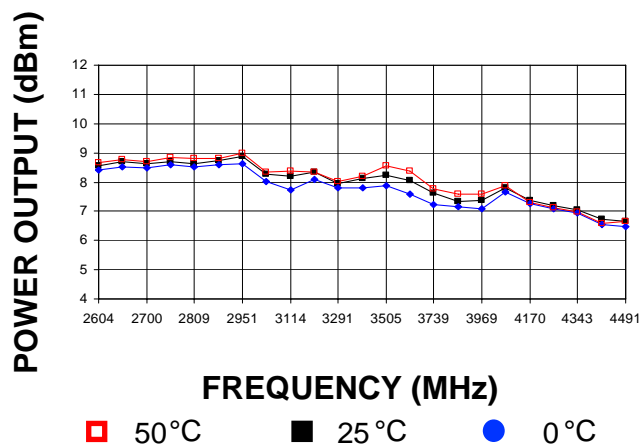
#### Additional Notes

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

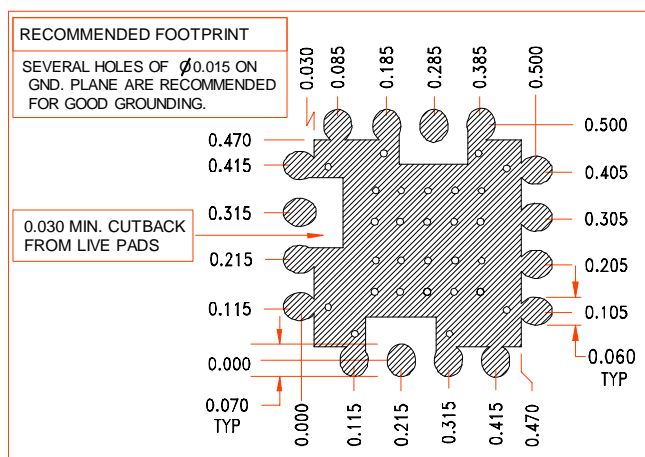
Tuning Curve, typ.



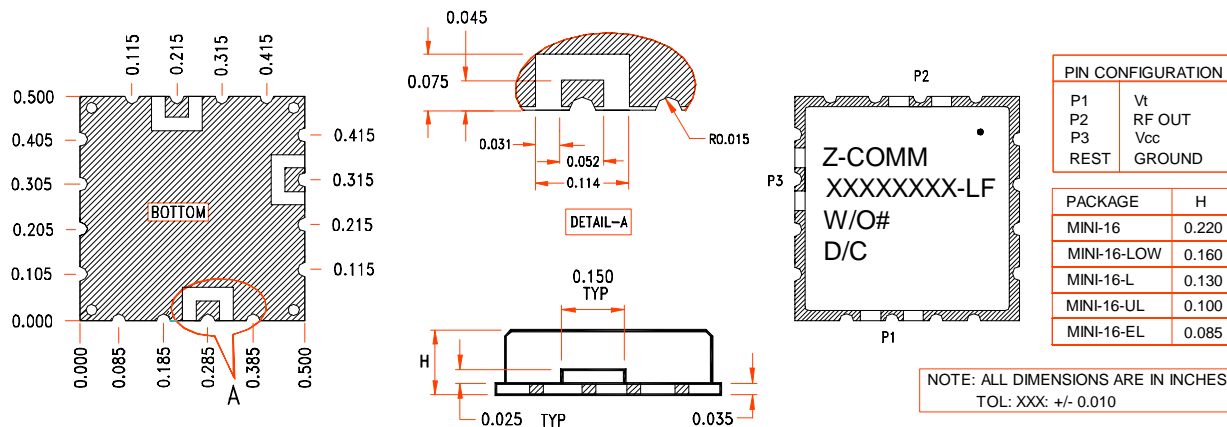
Power Curve, typ.



Footprint



Physical Dimensions



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