

14118 Stowe Drive, Suite B | Poway, CA 92064  
 TEL: (858) 621-2700 | FAX: (858) 486-1927  
 URL: [www.zcomm.com](http://www.zcomm.com)  
 EMAIL: [applications@zcomm.com](mailto:applications@zcomm.com)

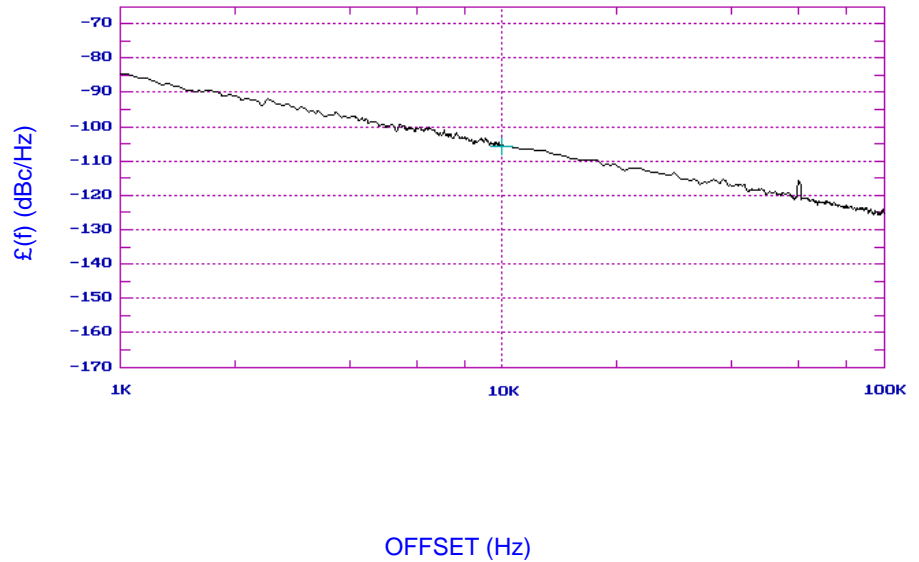
### Voltage-Controlled Oscillator Surface Mount Module

#### Applications

- RF Modems
- Earthstations
- Test Instrumentation

#### Application Notes

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



#### Performance Specifications

|  | Min | Typ     | Max | Units              |
|--|-----|---------|-----|--------------------|
| Oscillation Frequency Range            | 150 |         | 200 | MHz                |
| Phase Noise @ 10 kHz offset (1 Hz BW)  |     | -105    |     | dBc/Hz             |
| Harmonic Suppression (2nd)             |     | -10     |     | dBc                |
| Tuning Voltage                         | 0.5 |         | 4.5 | Vdc                |
| Tuning Sensitivity (avg.)              |     | 17      |     | MHz/V              |
| Power Output                           | -2  | 1.5     | 5   | dBm                |
| Load Impedance                         |     | 50      |     | $\Omega$           |
| Input Capacitance                      |     |         | 550 | pF                 |
| Pushing                                |     |         | 2   | MHz/V              |
| Pulling (14 dB Return Loss, Any Phase) |     |         | 2   | MHz                |
| Operating Temperature Range            | -30 |         | 85  | $^{\circ}\text{C}$ |
| Package Style                          |     | MINI-16 |     |                    |

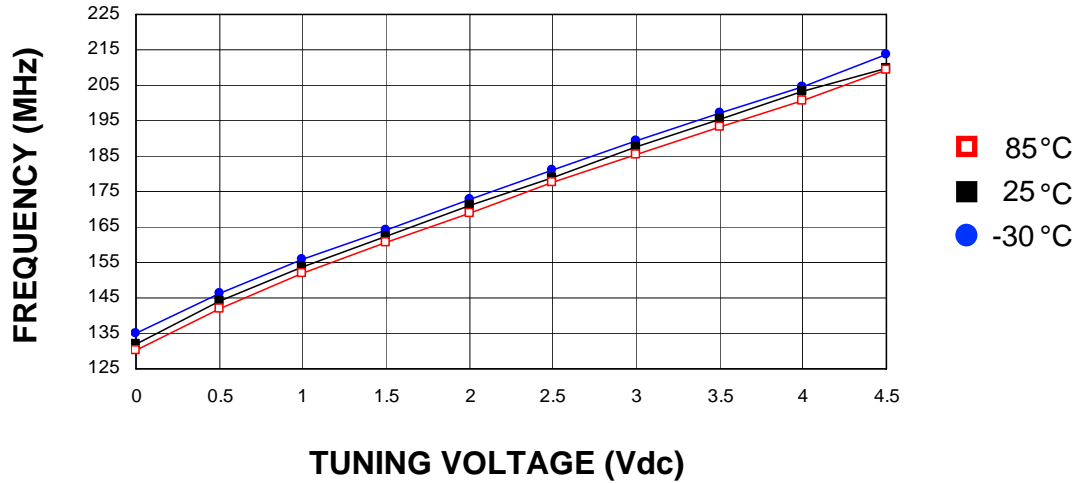
#### Power Supply Requirements

|                            | Min | Typ  | Max | Units |
|----------------------------|-----|------|-----|-------|
| Supply Voltage (Vcc, nom.) |     | 4.75 |     | Vdc   |
| Supply Current (Icc)       |     | 8    | 12  | mA    |

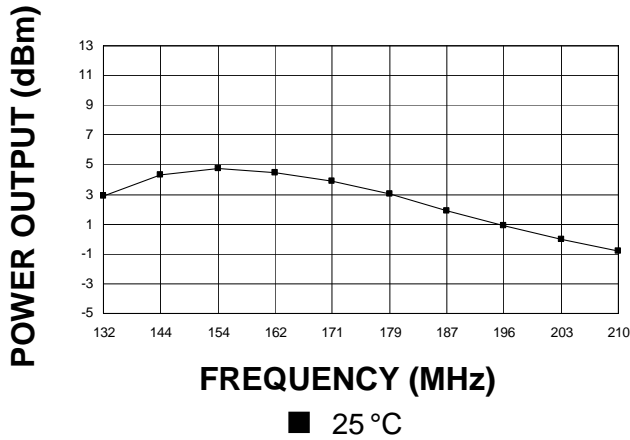
#### Additional Notes

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

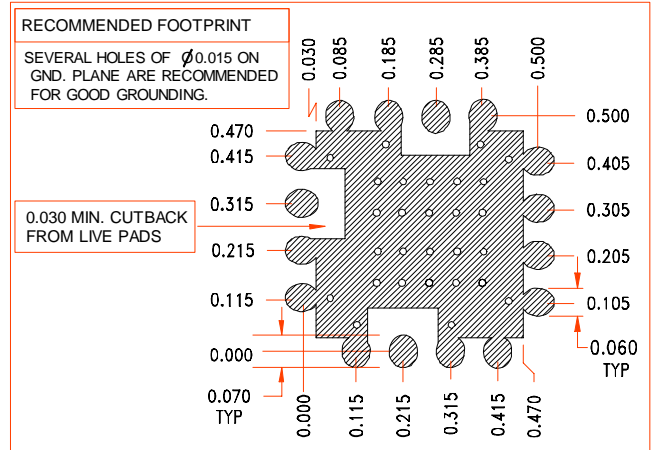
Tuning Curve, typ.



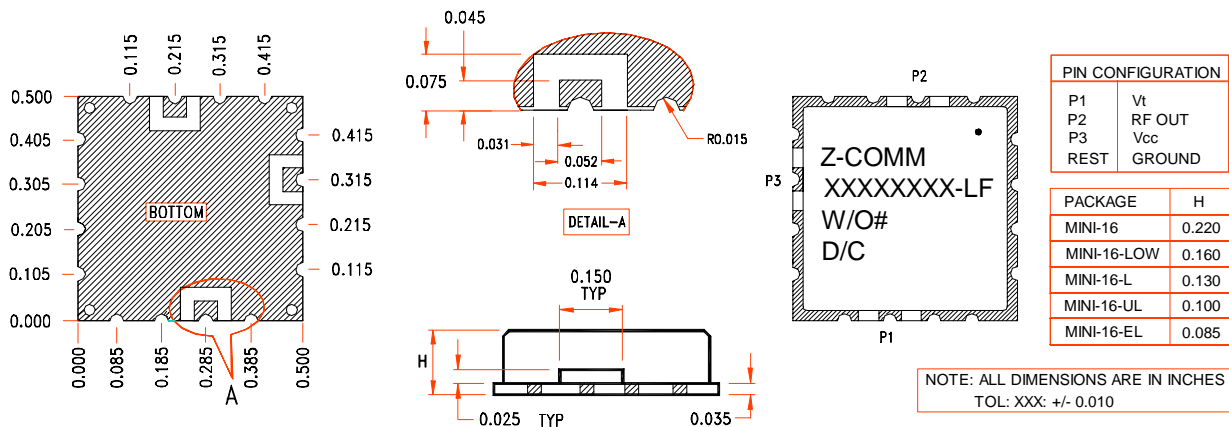
Power Curve, typ.



Footprint



Physical Dimensions



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