

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

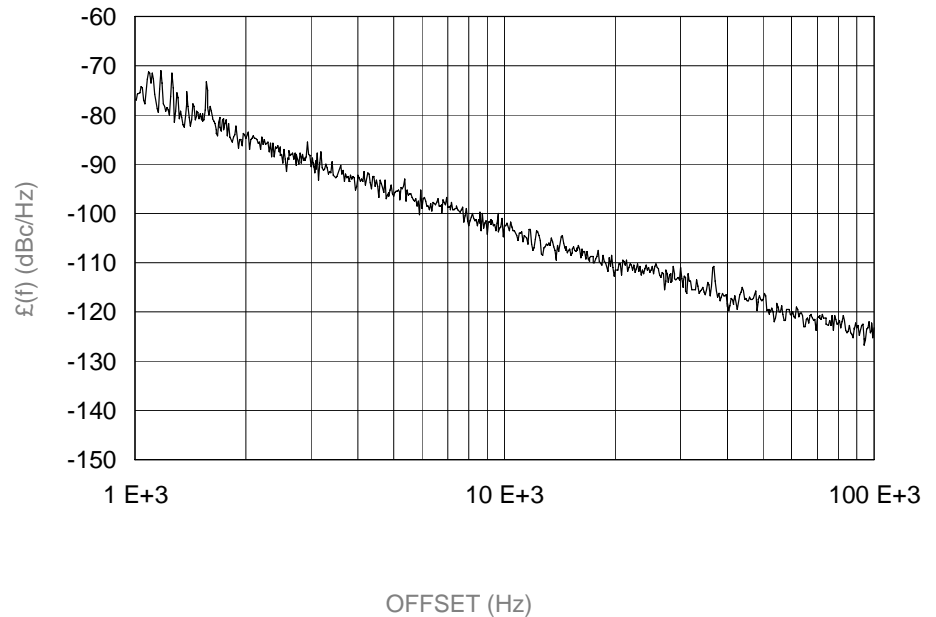
## Voltage-Controlled Oscillator Surface Mount Module

### Applications

- Spread Spectrum Radios
- Earthstations
- Downconvertors

### Application Notes

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

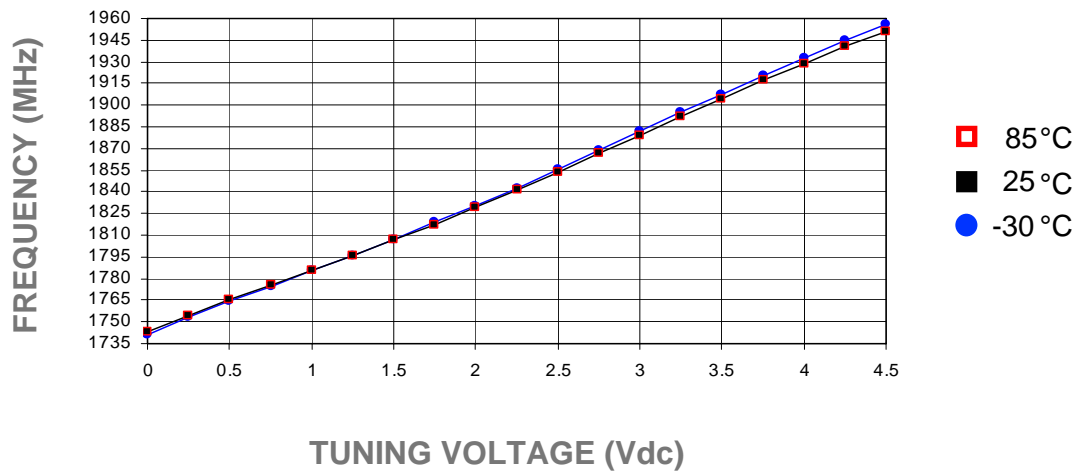


| Performance Specifications             | Min  | Typ      | Max  | Units              |
|--|------|----------|------|--------------------|
| Oscillation Frequency Range            | 1785 |          | 1900 | MHz                |
| Phase Noise @ 10 kHz offset (1 Hz BW)  |      | -103     |      | dBc/Hz             |
| Harmonic Suppression (2nd)             |      | -30      |      | dBc                |
| Tuning Voltage                         | 0.5  |          | 4.5  | Vdc                |
| Tuning Sensitivity (avg.)              |      | 49       |      | MHz/V              |
| Power Output                           | 0    | 2.5      | 5    | dBm                |
| Load Impedance                         |      | 50       |      | $\Omega$           |
| Input Capacitance                      |      |          | 50   | pF                 |
| Pushing                                |      |          | 2    | MHz/V              |
| Pulling (14 dB Return Loss, Any Phase) |      |          | 7    | MHz                |
| Operating Temperature Range            | -30  |          | 85   | $^{\circ}\text{C}$ |
| Package Style                          |      | MINI-14S |      |                    |

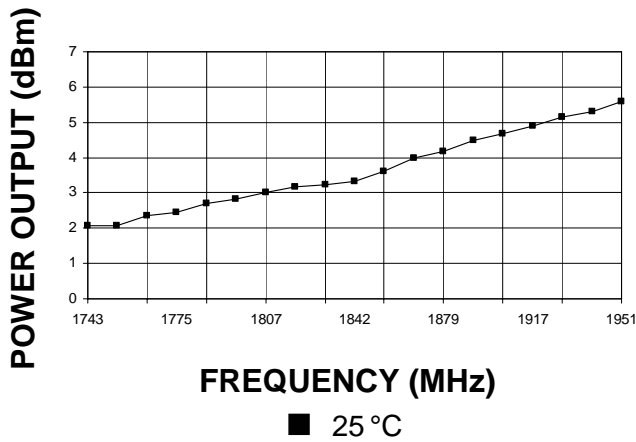
| Power Supply Requirements  | Min | Typ  | Max | Units |
|----------------------------|-----|------|-----|-------|
| Supply Voltage (Vcc, nom.) |     | 4.75 |     | Vdc   |
| Supply Current (Icc)       |     | 17   | 20  | mA    |

### Additional Notes

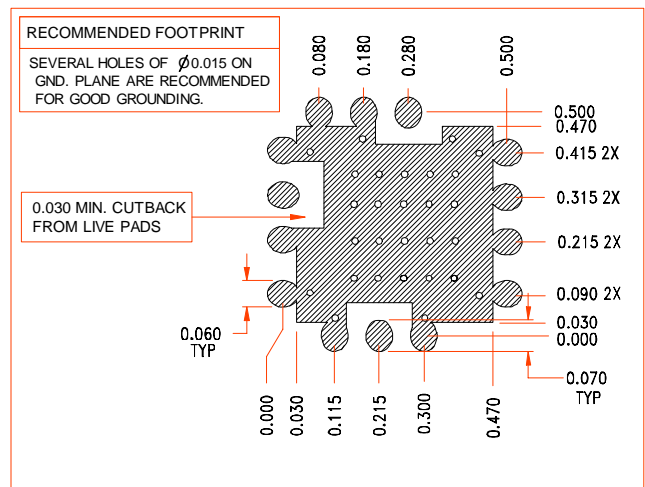
Tuning Curve, typ.



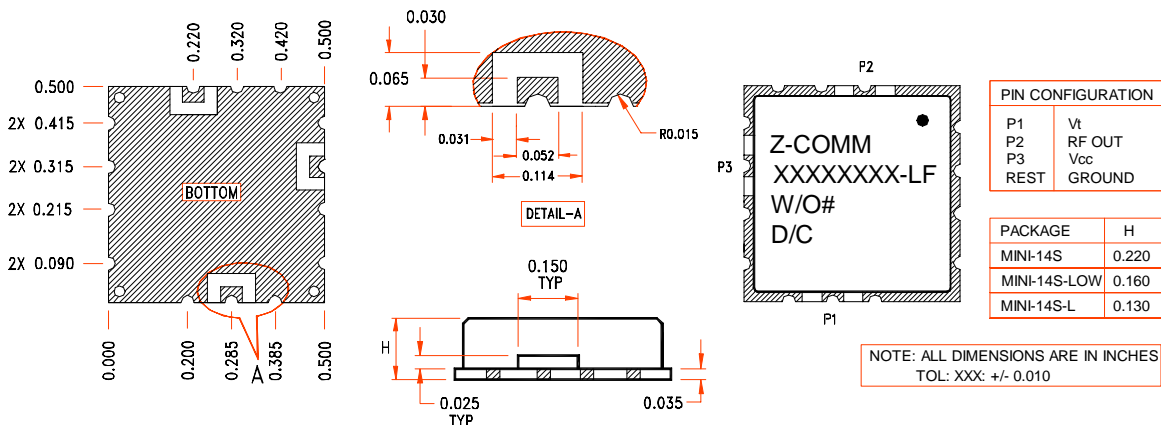
Power Curve, typ.



Footprint



Physical Dimensions



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