

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

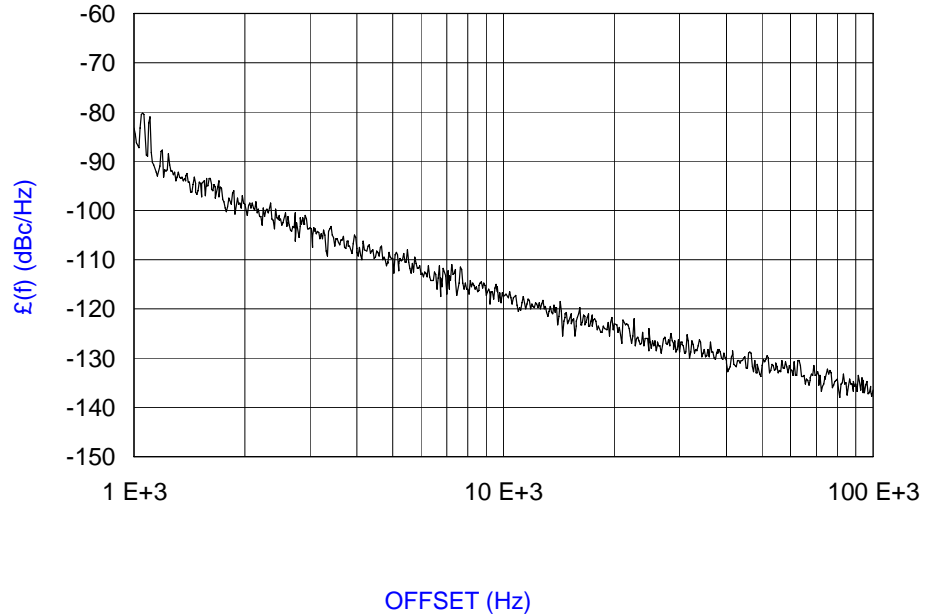
**Voltage-Controlled Oscillator
 Surface Mount Module**

Applications

- Digital Radio Equipment
- Fixed Wireless Access
- Satellite Communication Systems

Application Notes

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



OFFSET (Hz)

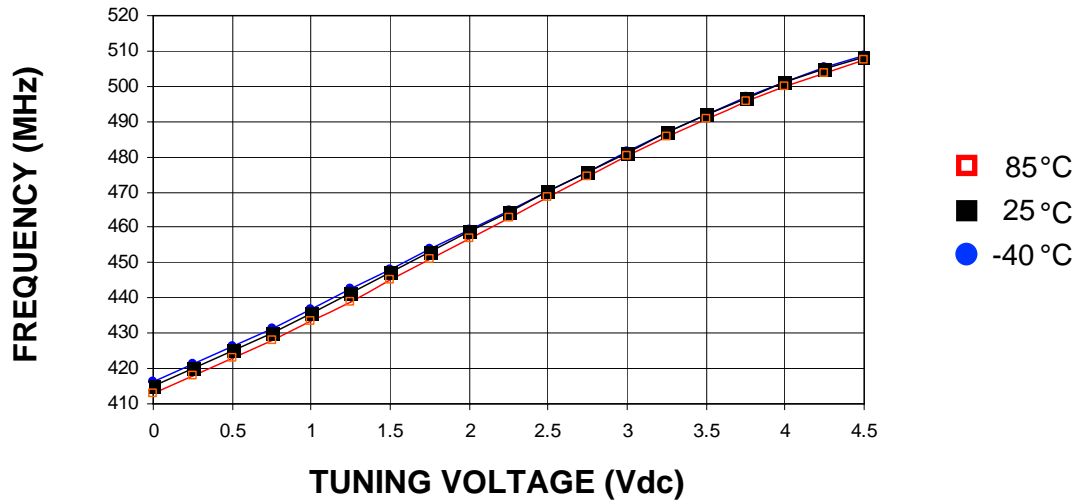
| Performance Specifications | Min | Typ | Max | Units |
|--|----------|------|-----|--------------------|
| Oscillation Frequency Range | 452 | | 454 | MHz |
| Phase Noise @ 10 kHz offset (1 Hz BW) | | -117 | | dBc/Hz |
| Harmonic Suppression (2nd) | | -12 | -10 | dBc |
| Tuning Voltage | 0.5 | | 4.5 | Vdc |
| Tuning Sensitivity (avg.) | | 25 | | MHz/V |
| Power Output | 3.5 | 5 | 6.5 | dBm |
| Load Impedance | | 50 | | Ω |
| Input Capacitance | | | 50 | pF |
| Pushing | | | 2 | MHz/V |
| Pulling (14 dB Return Loss, Any Phase) | | | .5 | MHz |
| Operating Temperature Range | -40 | | 85 | $^{\circ}\text{C}$ |
| Package Style | MINI-16M | | | |

| Power Supply Requirements | Min | Typ | Max | Units |
|----------------------------|-----|-----|-----|-------|
| Supply Voltage (Vcc, nom.) | | 5.5 | | Vdc |
| Supply Current (Icc) | | 23 | 28 | mA |

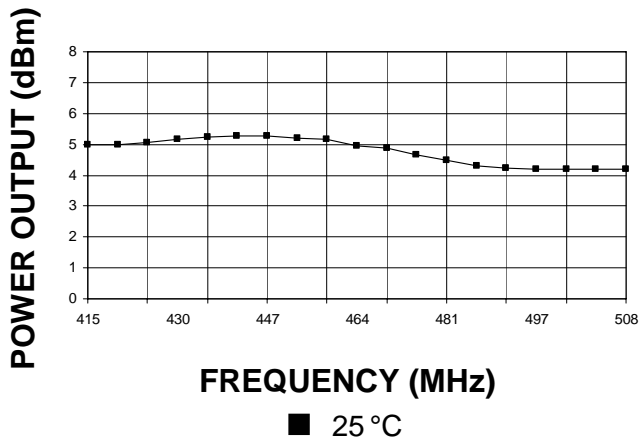
| Additional Notes |
|------------------|
| |

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

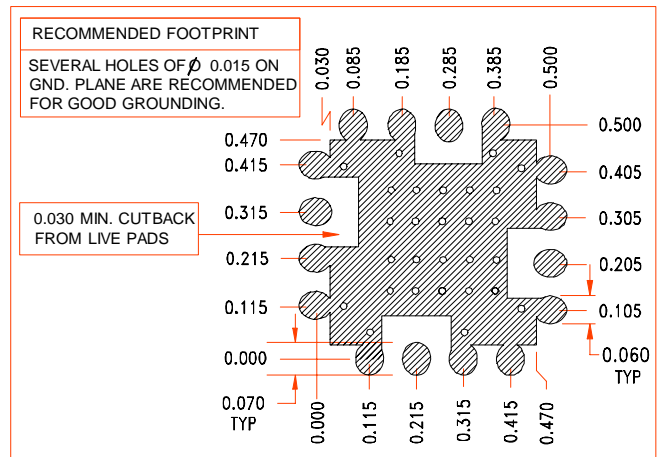
Tuning Curve, typ.



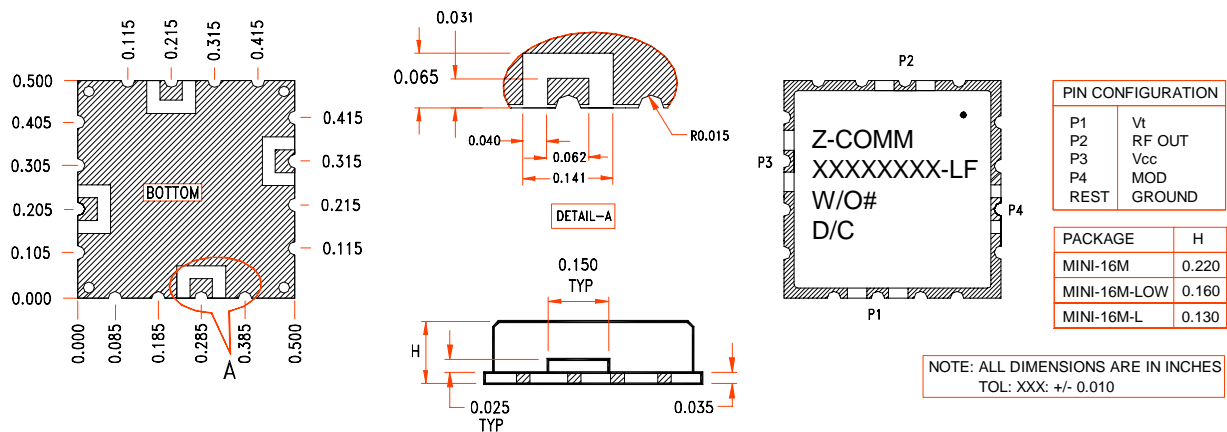
Power Curve, typ.



Footprint



Physical Dimensions



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