

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)

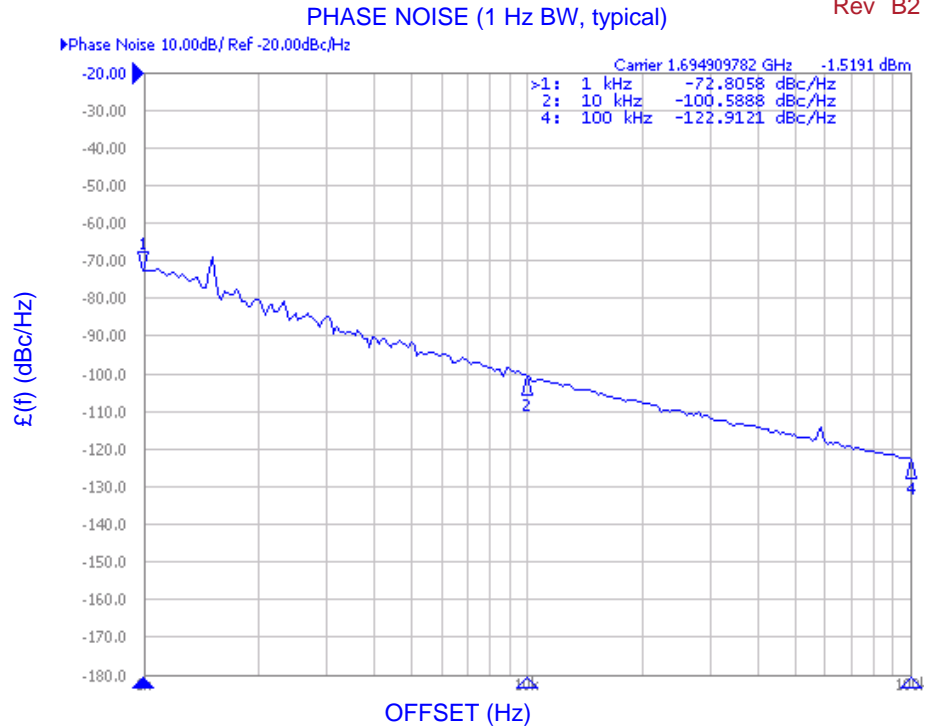
### Voltage-Controlled Oscillator Surface Mount Module

#### Applications

- Personal Communication Systems
- Earthstations
- Portable Radios

#### Application Notes

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



#### Performance Specifications

|  | Min  | Typ      | Max  | Units              |
|--|------|----------|------|--------------------|
| Oscillation Frequency Range            | 1580 |          | 1810 | MHz                |
| Phase Noise @ 10 kHz offset (1 Hz BW)  |      | -99      |      | dBc/Hz             |
| Harmonic Suppression (2nd)             |      | -20      | -17  | dBc                |
| Tuning Voltage                         | 0.25 |          | 4.75 | Vdc                |
| Tuning Sensitivity (avg.)              |      | 85       |      | MHz/V              |
| Power Output                           | -2   | 1.5      | 5    | dBm                |
| Load Impedance                         |      | 50       |      | $\Omega$           |
| Input Capacitance                      |      |          | 50   | pF                 |
| Pushing                                |      |          | 5    | MHz/V              |
| Pulling (14 dB Return Loss, Any Phase) |      |          | 2    | MHz                |
| Operating Temperature Range            | -40  |          | 85   | $^{\circ}\text{C}$ |
| Package Style                          |      | MINI-14S |      |                    |

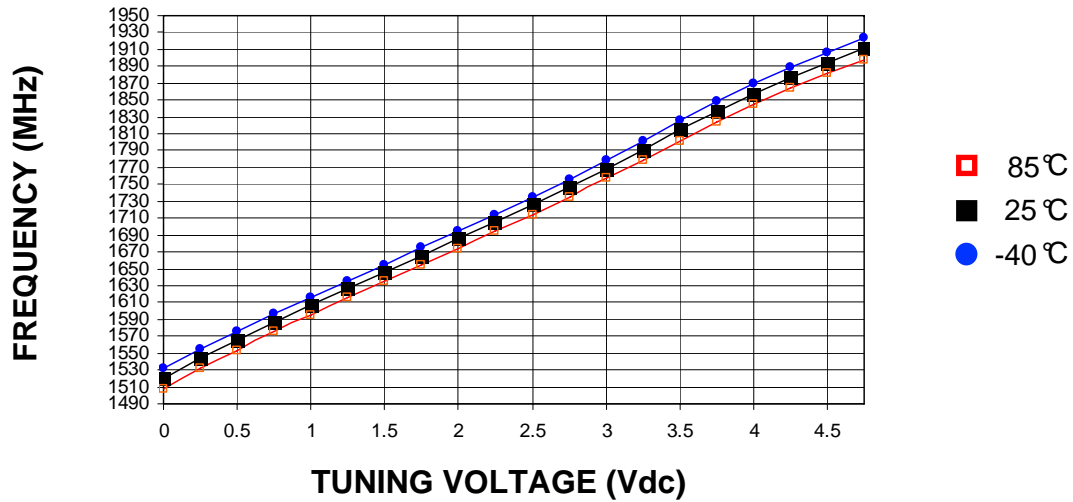
#### Power Supply Requirements

|                            | Min | Typ | Max | Units |
|----------------------------|-----|-----|-----|-------|
| Supply Voltage (Vcc, nom.) |     | 4.5 |     | Vdc   |
| Supply Current (Icc)       |     | 10  | 12  | mA    |

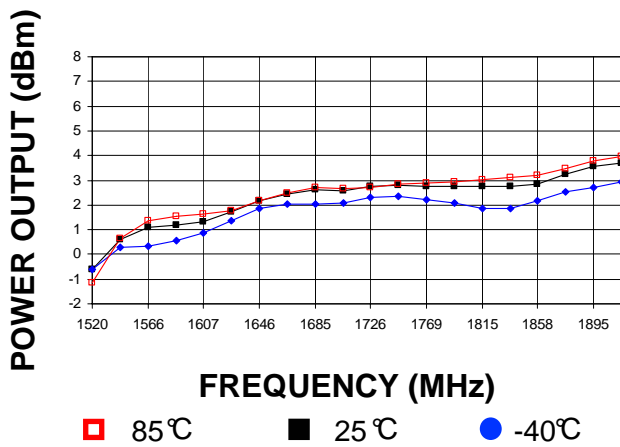
#### Additional Notes

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.