

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)

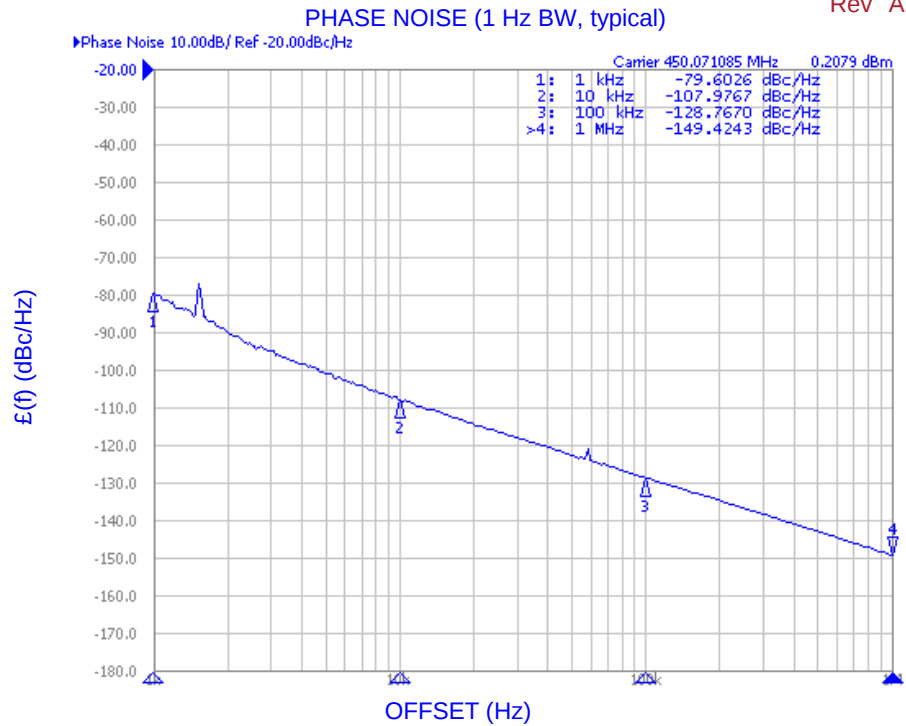
### Voltage-Controlled Oscillator Surface Mount Module

#### Applications

- Test Equipments
- CATV
- 

#### Application Notes

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



#### Performance Specifications

|                                        | Min | Typ      | Max | Units              |
|----------------------------------------|-----|----------|-----|--------------------|
| Oscillation Frequency Range            | 300 |          | 600 | MHz                |
| Phase Noise @ 10 kHz offset (1 Hz BW)  |     | -99      |     | dBc/Hz             |
| Harmonic Suppression (2nd)             |     | -5       |     | dBc                |
| Tuning Voltage                         | 0   |          | 10  | Vdc                |
| Tuning Sensitivity (avg.)              |     | 35       |     | MHz/V              |
| Power Output                           | 1   | 5        | 9   | dBm                |
| Load Impedance                         |     | 50       |     | $\Omega$           |
| Input Capacitance                      |     |          | 150 | pF                 |
| Pushing                                |     |          | 4   | MHz/V              |
| Pulling (14 dB Return Loss, Any Phase) |     |          | 2   | MHz                |
| Operating Temperature Range            | -40 |          | 85  | $^{\circ}\text{C}$ |
| Package Style                          |     | MINI-14S |     |                    |

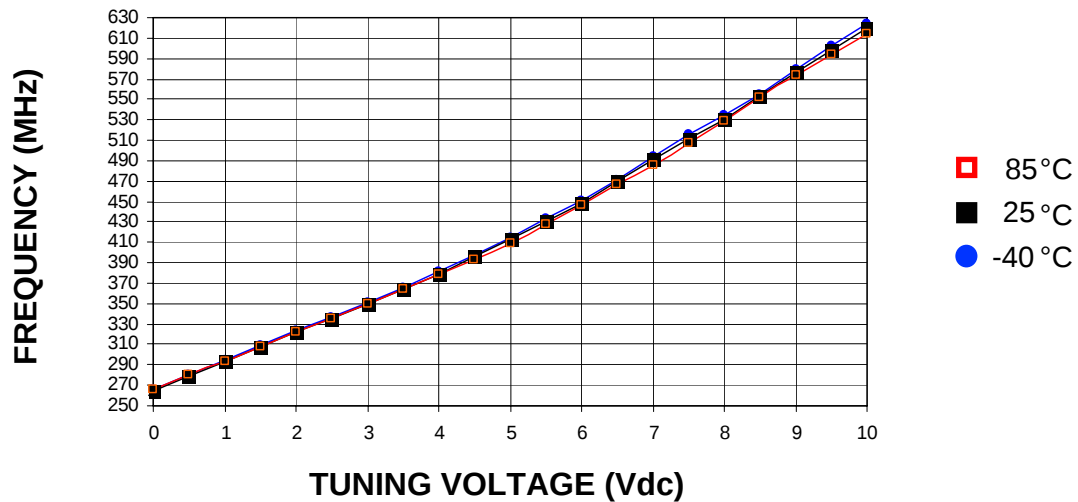
#### Power Supply Requirements

|                            | Min | Typ | Max | Units |
|----------------------------|-----|-----|-----|-------|
| Supply Voltage (Vcc, nom.) |     | 5   |     | Vdc   |
| Supply Current (Icc)       |     | 14  | 17  | mA    |

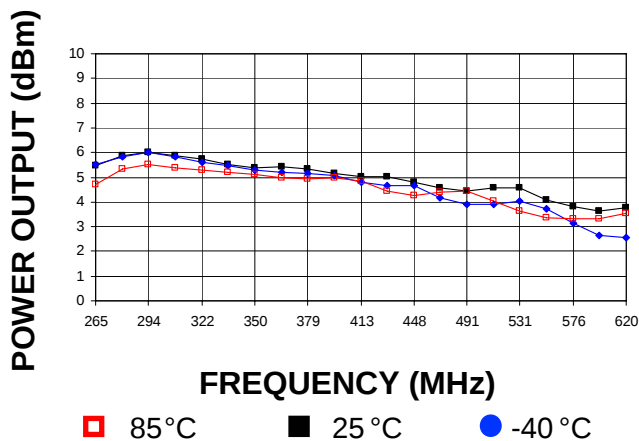
#### Additional Notes

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

**Tuning Curve, typ.**



**Power Curve, typ.**

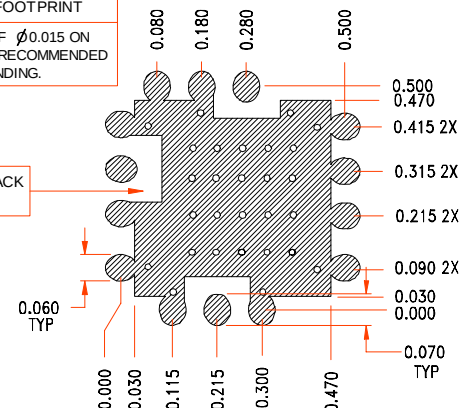


**Footprint**

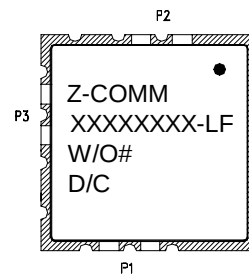
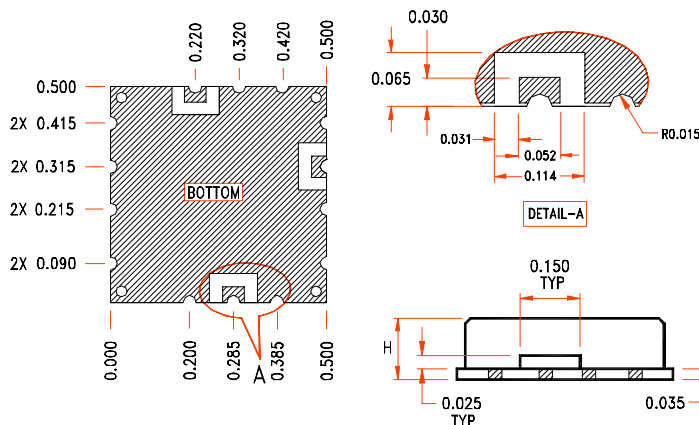
**RECOMMENDED FOOTPRINT**

SEVERAL HOLES OF  $\phi 0.015$  ON GND. PLANE ARE RECOMMENDED FOR GOOD GROUNDING.

0.030 MIN. CUTBACK FROM LIVE PADS



**Physical Dimensions**



**PIN CONFIGURATION**

|      |        |
|------|--------|
| P1   | Vt     |
| P2   | RF OUT |
| P3   | Vcc    |
| REST | GROUND |

| PACKAGE      | H     |
|--------------|-------|
| MINI-14S     | 0.220 |
| MINI-14S-LOW | 0.160 |
| MINI-14S-L   | 0.130 |

NOTE: ALL DIMENSIONS ARE IN INCHES  
TOL: XXX: +/- 0.010

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