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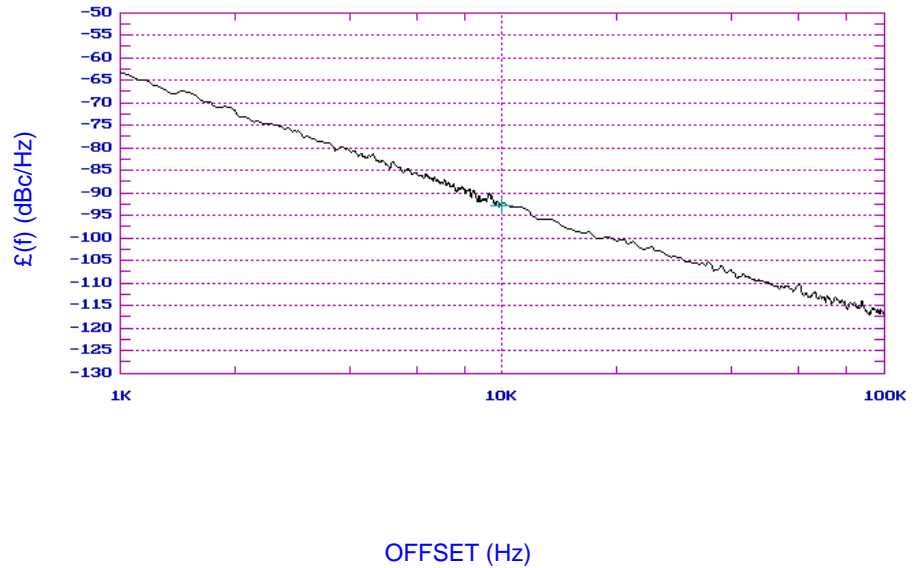
### Voltage-Controlled Oscillator Surface Mount Module

#### Applications

- Satellite Communication Systems
- Earthstations
- Digital 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            | 1700       |     | 2496 | MHz                |
| Phase Noise @ 10 kHz offset (1 Hz BW)  |            | -92 |      | dBc/Hz             |
| Harmonic Suppression (2nd)             |            | -15 |      | dBc                |
| Tuning Voltage                         | 2          |     | 20   | Vdc                |
| Tuning Sensitivity (avg.)              |            | 66  |      | MHz/V              |
| Power Output                           | 4          | 7   | 10   | dBm                |
| Load Impedance                         |            | 50  |      | $\Omega$           |
| Input Capacitance                      |            |     | 50   | pF                 |
| Pushing                                |            |     | 5    | MHz/V              |
| Pulling (14 dB Return Loss, Any Phase) |            |     | 7    | MHz                |
| Operating Temperature Range            | -10        |     | 85   | $^{\circ}\text{C}$ |
| Package Style                          | MINI-14S-L |     |      |                    |

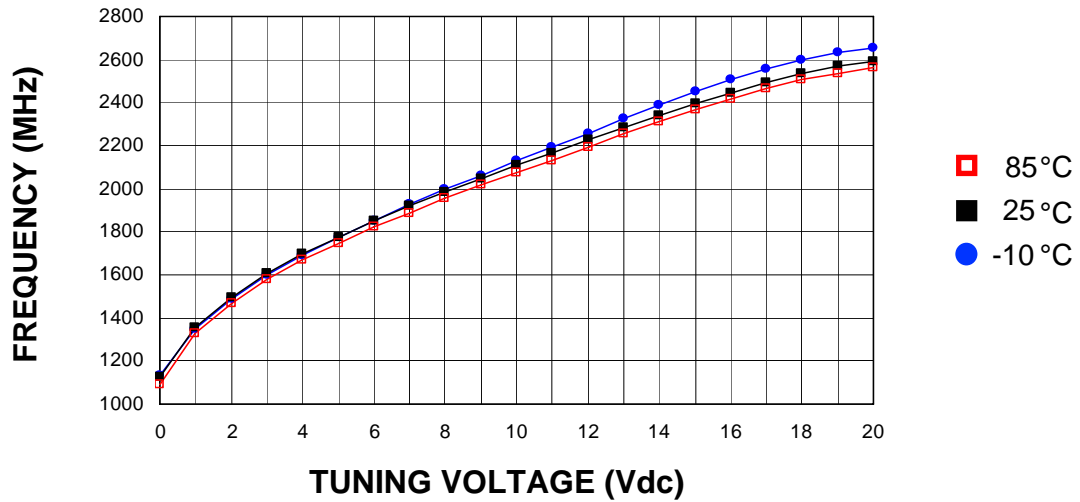
#### Power Supply Requirements

|                            | Min | Typ | Max | Units |
|----------------------------|-----|-----|-----|-------|
| Supply Voltage (Vcc, nom.) |     | 10  |     | Vdc   |
| Supply Current (Icc)       |     | 22  | 30  | mA    |

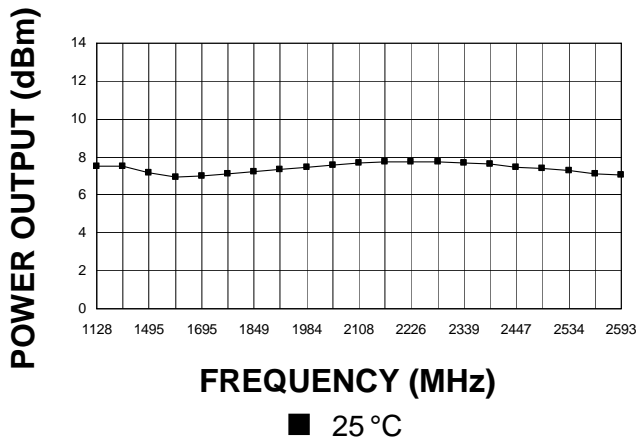
#### Additional Notes

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

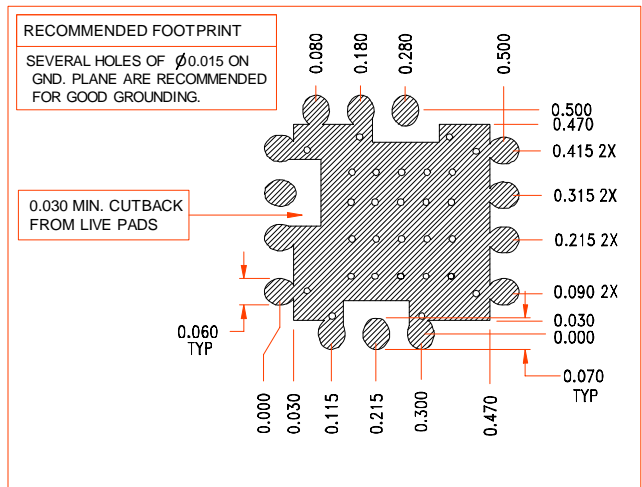
Tuning Curve, typ.



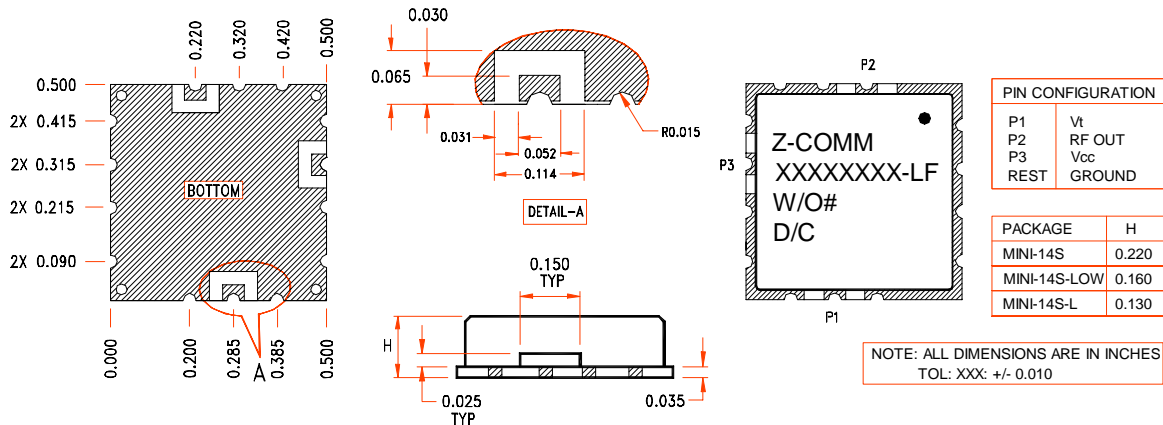
Power Curve, typ.



Footprint



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 |

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