

PHASE NOISE (1 Hz BW, typical)

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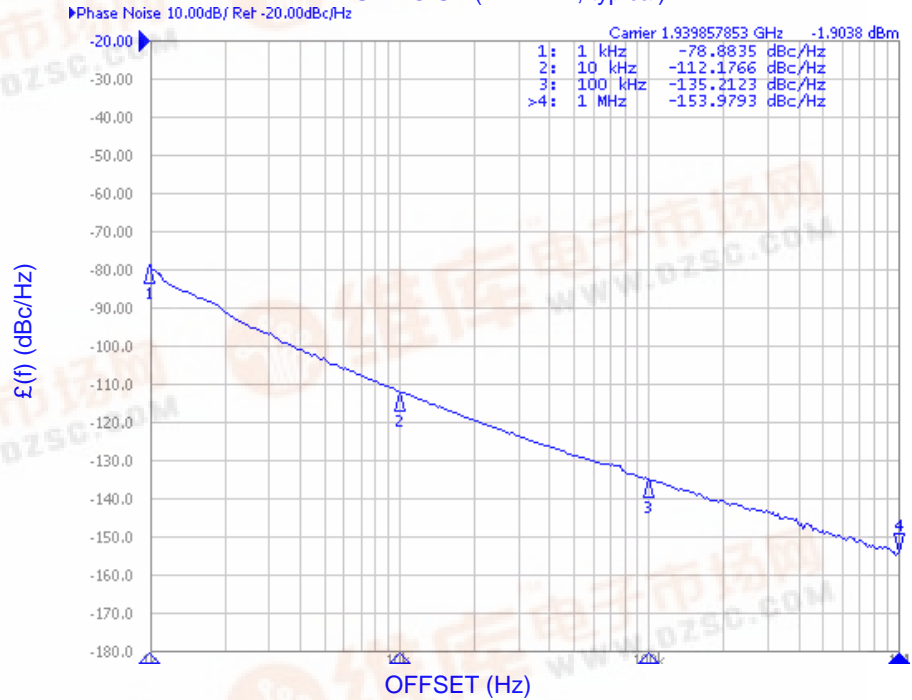
**Voltage-Controlled Oscillator
 Surface Mount Module**

Applications

- Fixed Wireless Access
- Digital Radio
-

Application Notes

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



| Performance Specifications | Min | Typ | Max | Units |
|--|------|------------|------|--------------------|
| Oscillation Frequency Range | 1910 | | 1970 | MHz |
| Phase Noise @ 10 kHz offset (1 Hz BW) | | -112 | | dBc/Hz |
| Harmonic Suppression (2nd) | | -30 | -20 | dBc |
| Tuning Voltage | 0.5 | | 4.5 | Vdc |
| Tuning Sensitivity (avg.) | | 21 | | MHz/V |
| Power Output | 2 | 4 | 6 | dBm |
| Load Impedance | | 50 | | Ω |
| Input Capacitance | | | 50 | pF |
| Pushing | | | 1 | MHz/V |
| Pulling (14 dB Return Loss, Any Phase) | | | 1 | MHz |
| Operating Temperature Range | -40 | | 85 | $^{\circ}\text{C}$ |
| Package Style | | MINI-16-SM | | |

| Power Supply Requirements | Min | Typ | Max | Units |
|----------------------------|-----|-----|-----|-------|
| Supply Voltage (Vcc, nom.) | | 5 | | Vdc |
| Supply Current (Icc) | | 22 | 30 | mA |

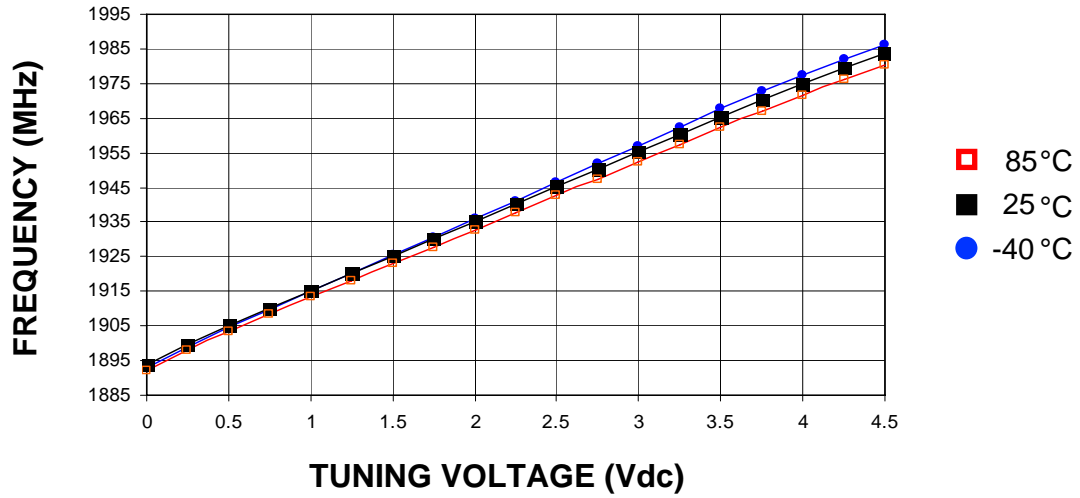
Additional Notes

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

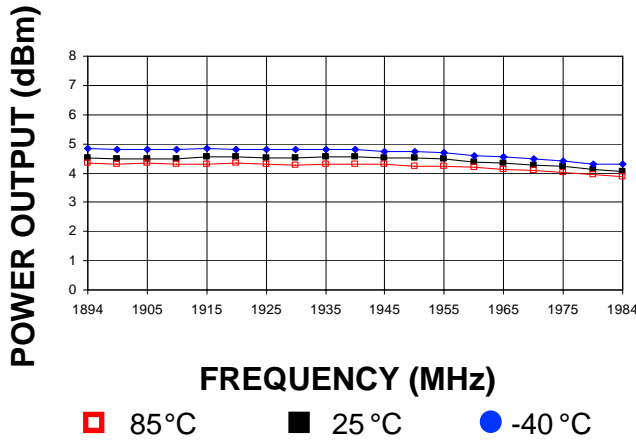
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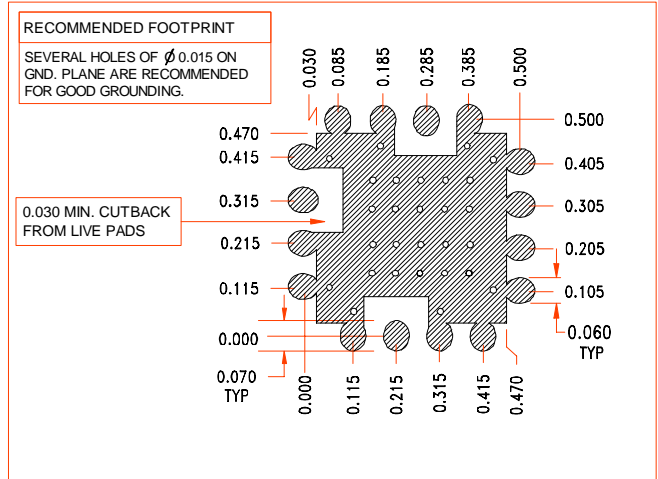
Tuning Curve, typ.



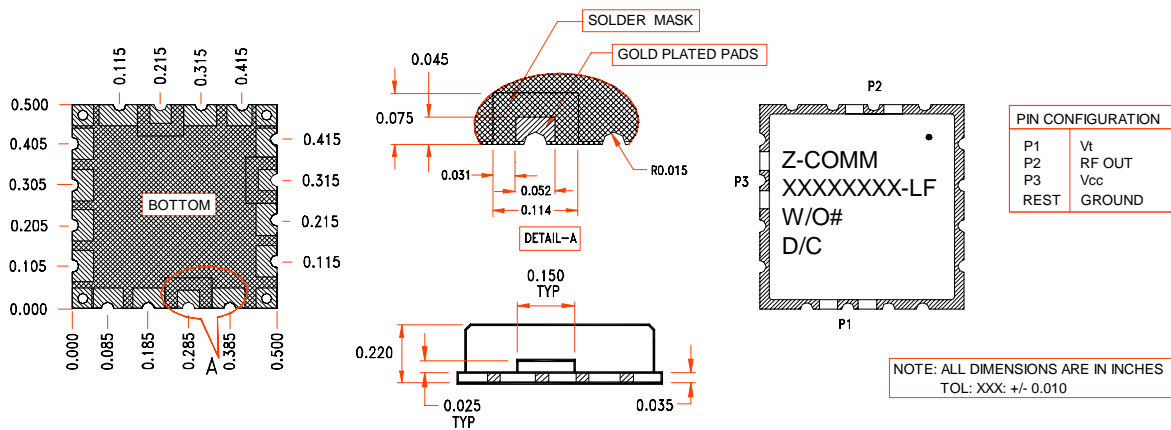
Power Curve, typ.



Footprint



Physical Dimensions



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

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