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Voltage-Controlled Oscillator Surface Mount Module

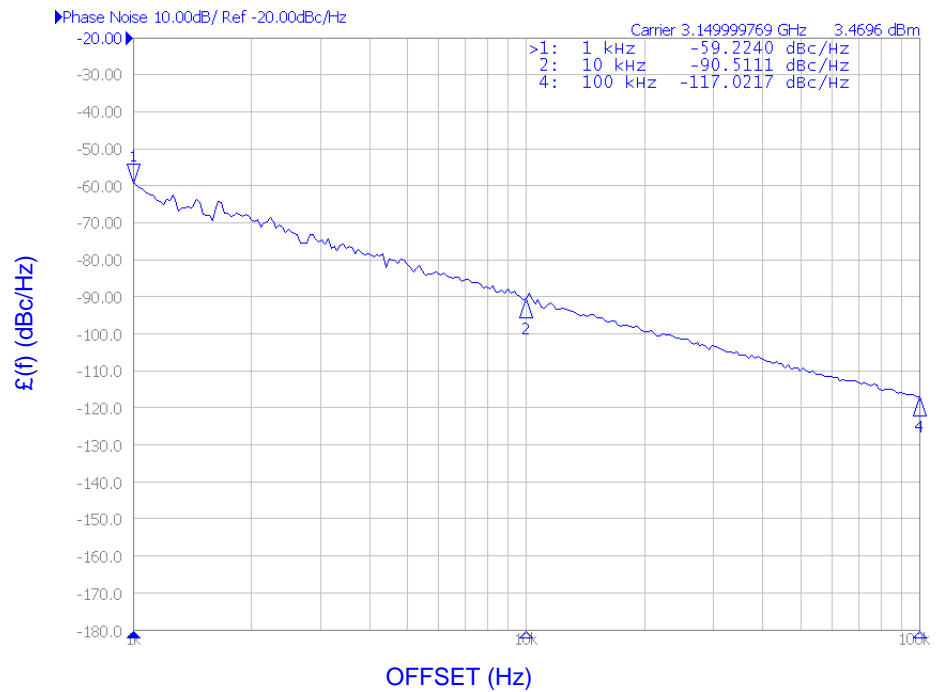
Applications

- Personal Communications Systems
- WLAN
- Portable Radios

Application Notes

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

PHASE NOISE (1 Hz BW, typical)



Performance Specifications

| | Min | Typ | Max | Units |
|---|------|-------|------|--------------------|
| Oscillation Frequency Range | 3000 | | 3300 | MHz |
| Phase Noise @ 10 kHz offset (1 Hz BW) | | -85 | | dBc/Hz |
| Harmonic Suppression (2nd) | | -12 | -9 | dBc |
| Tuning Voltage | 1 | | 9 | Vdc |
| Tuning Sensitivity (avg.) | | 75 | | MHz/V |
| Power Output | 5 | 8 | 11 | dBm |
| Load Impedance | | 50 | | Ω |
| Input Capacitance | | | 10 | pF |
| Pushing | | | 10 | MHz/V |
| Pulling (20. dB Return Loss, Any Phase) | | | 10 | MHz |
| Operating Temperature Range | -40 | | 85 | $^{\circ}\text{C}$ |
| Package Style | | SUB-L | | |

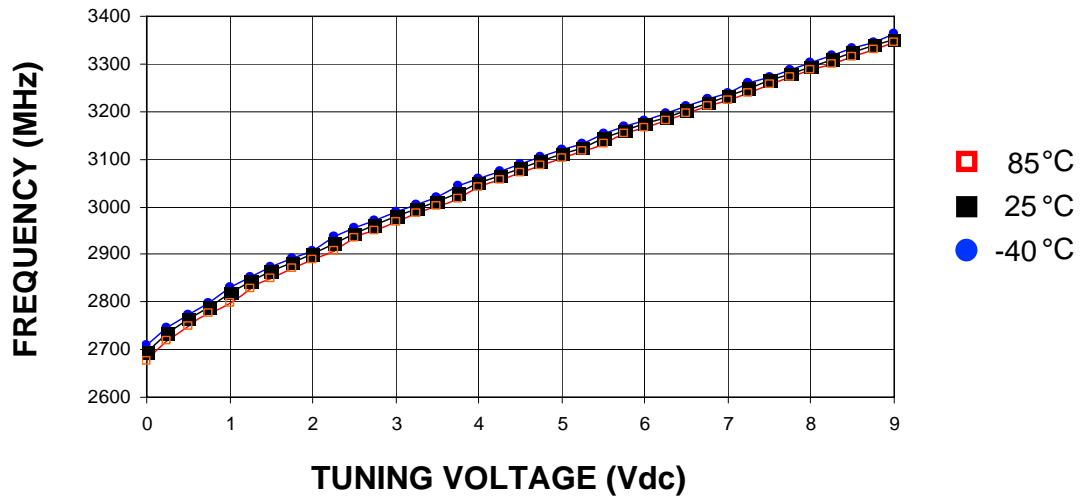
Power Supply Requirements

| | Min | Typ | Max | Units |
|----------------------------|-----|-----|-----|-------|
| Supply Voltage (Vcc, nom.) | | 10 | | Vdc |
| Supply Current (Icc) | | 28 | 34 | mA |

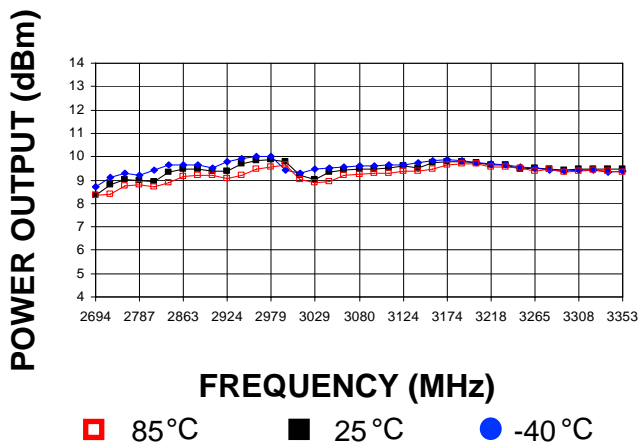
Additional Notes

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

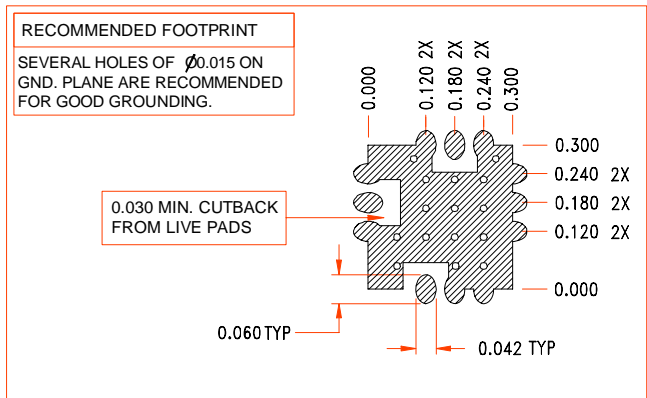
Tuning Curve, typ.



Power Curve, typ.



Footprint



Physical Dimensions



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