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Voltage-Controlled Oscillator Surface Mount Module

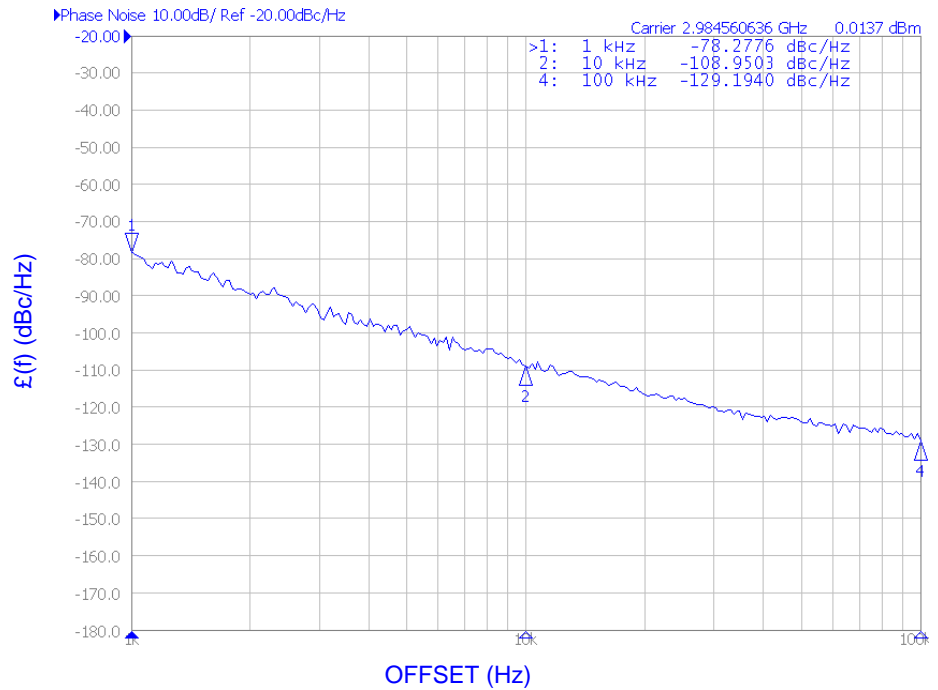
Applications

- Digital Radio Equipment
- Fixed Wireless Access
- Satellite Communication Systems

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 | 2955 | | 3014 | MHz |
| Phase Noise @ 10 kHz offset (1 Hz BW) | | -109 | | dBc/Hz |
| Harmonic Suppression (2nd) | | -15 | -13 | dBc |
| Tuning Voltage | 0.5 | | 4.5 | Vdc |
| Tuning Sensitivity (avg.) | | 22 | | MHz/V |
| Power Output | 3 | 6 | 9 | 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 | | | |

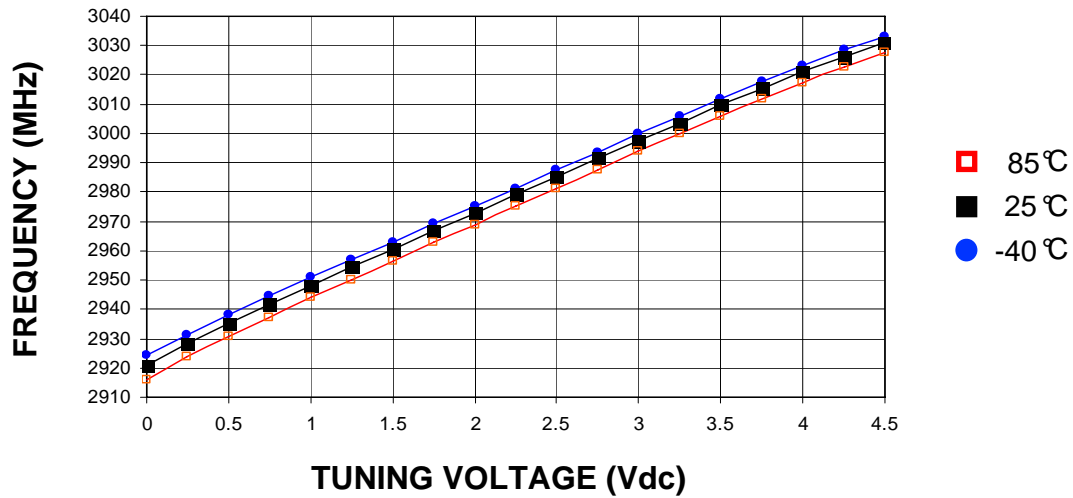
Power Supply Requirements

| | Min | Typ | Max | Units |
|----------------------------|-----|-----|-----|-------|
| Supply Voltage (Vcc, nom.) | | 5 | | Vdc |
| Supply Current (Icc) | | 21 | 26 | mA |

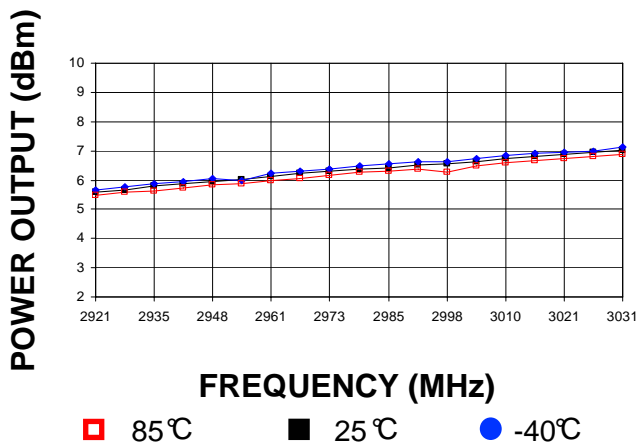
Additional Notes

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

Tuning Curve, typ.



Power Curve, typ.



Footprint



Physical Dimensions



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