



VCO Product Specification

Model: VCO191-915UY **Rev:** A **Date:** 8/10/2009
Customer: RF MICRO DEVICES
Operating Temperature Range: (-35 ° to 85 ° C)

RoHS Compliant

| Parameter | Min | Typ | Max | Units | X | Remarks |
|---------------------------------|------|------|------|---------|---|---------|
| Frequency Range - | 902 | 915 | 928 | MHz | X | |
| Tuning Voltage: | | | | | | |
| 902 MHz | 0.4 | 0.8 | | Vdc | X | |
| 928 MHz | | 2.3 | 2.6 | Vdc | X | |
| Tuning Sensitivity - | 15 | 18 | 21 | MHz/V | X | |
| Output Power - | -6 | -3 | 0 | dBm | X | |
| Output Phase Noise: | | | | | | |
| 10 kHz | | -109 | -102 | dBc/Hz | | |
| 100 kHz | | -129 | -122 | dBc/Hz | X | |
| Power Supply - | 2.85 | 3 | 3.15 | Volts | | |
| Supply Current - | | 6 | 8 | mA | X | |
| Harmonic Suppression: | | | | | | |
| 2nd Harmonic | | -16 | -10 | dBc | X | |
| 3rd Harmonic | | -34 | -10 | dBc | X | |
| Spurious (Non-Harmonic) - | | | -80 | dBc | | |
| Frequency Pushing - 2.85-3.15 V | | 0.8 | 1.2 | MHz p-p | | |
| Frequency Pulling - 12 dB RL | | 0.8 | 1.5 | MHz p-p | | |
| Tuning Port Capacitance - | | 100 | 120 | pF | | |
| Output Impedance - | | 50 | | Ω | | |

Package Information

| | | | |
|---------------|---------------------------------|-----------------|-------|
| Package Type: | U (0.374 x 0.374 x 0.13 inches) | Drawing Number: | 60036 |
|---------------|---------------------------------|-----------------|-------|

Comments

X Indicates parameter to be tested 100% in production

RoHS status based on EU Directive 2002/95/EC (at time of this document revision).

The information in this publication is believed to be accurate and reliable. However, no responsibility is assumed by RF Micro Devices, Inc. ("RFMD") for its use, nor for any infringement of patents, or other rights of third parties, resulting from its use. No license is granted by implication or otherwise under any patent or patent rights of RFMD. RFMD reserves the right to change component circuitry, recommended application circuitry and specifications at any time without prior notice.