



VCO Product Specification

Model: VCO190-1920U(Y) **Rev:** **Date:** 8/31/2006

Customer: SIRENZA MICRODEVICES, INC.

Operating Temperature Range: (-10 ° to 85 ° C)

Pb RoHS Compliant

To order models as RoHS Compliant add "Y" suffix to base model number.

| Parameter | Min | Typ | Max | Units | X | Remarks |
|---------------------------------|------|------|------|---------|---|---------|
| Frequency Range - | 1865 | 1920 | 1975 | MHz | X | |
| Tuning Voltage: | | | | | | |
| 1865 MHz | 0.8 | 1.3 | | Vdc | X | |
| 1975 MHz | | 3.7 | 4.1 | Vdc | X | |
| Tuning Sensitivity - | 45 | 58 | 72 | MHz/V | X | |
| Output Power - | -2 | 1 | 4 | dBm | X | |
| Output Phase Noise: | | | | | | |
| 10 kHz | | -99 | -92 | dBc/Hz | | |
| 100 kHz | | -119 | -112 | dBc/Hz | X | |
| Power Supply - | 4.75 | 5 | 5.25 | Volts | | |
| Supply Current - | | 25 | 30 | mA | X | |
| Harmonic Suppression: | | | | | | |
| 2nd Harmonic | | -14 | -10 | dBc | X | |
| 3rd Harmonic | | -20 | -15 | dBc | X | |
| Spurious (Non-Harmonic) - | | | -90 | dBc | | |
| Frequency Pushing - 4.75-5.25 V | | 1.2 | 1.6 | MHz p-p | | |
| Frequency Pulling - 12 dB RL | | 0.8 | 2 | MHz p-p | | |
| Tuning Port Capacitance - | | 39 | 70 | 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

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