



VCO Product Specification

Model: VCO190-2100T **Rev:** B **Date:** 4/21/2003

Customer: SIRENZA MICRODEVICES, INC.

Operating Temperature Range: (-35 ° to 85 ° C)

| Parameter | Min | Typ | Max | Units | X | Remarks |
|---------------------------------|------|------|------|---------|---|---------|
| Frequency Range - | 2000 | 2100 | 2200 | MHz | X | |
| Tuning Voltage: | | | | | | |
| 2000 MHz | 0.5 | 1 | | Vdc | X | |
| 2200 MHz | | 4 | 4.5 | Vdc | X | |
| Tuning Sensitivity - | 44 | 67 | 88 | MHz/V | X | |
| Output Power - | -3 | 0 | 3 | dBm | X | |
| Output Phase Noise: | | | | | | |
| 10 kHz | | -90 | -84 | dBc/Hz | | |
| 100 kHz | | -110 | -104 | dBc/Hz | X | |
| Power Supply - | 4.75 | 5 | 5.25 | Volts | | |
| Supply Current - | | 11 | 15 | mA | X | |
| Harmonic Suppression: | | | | | | |
| 2nd Harmonic | | -15 | -10 | dBc | X | |
| 3rd Harmonic | | -20 | -10 | dBc | X | |
| Spurious (Non-Harmonic) - | | | -80 | dBc | | |
| Frequency Pushing - 4.75-5.25 V | | 1.5 | 3 | MHz p-p | | |
| Frequency Pulling - 12 dB RL | | 5 | 7 | MHz p-p | | |
| Tuning Port Capacitance - | | 22 | | pF | | |
| Output Impedance - | | 50 | | Ω | | |

Package Information

| | | | |
|---------------|--------------------------|-------------------|-------|
| Package Type: | T | Drawing Number: | 60035 |
| Dimensions: | 0.5 x 0.5 x 0.156 inches | Drawing Revision: | E |

Comments

X Indicates parameter to be tested 100% in production

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