



## VCO Product Specification

**Model:** VCO190-250T(Y)      **Rev:**      **Date:** 8/31/2006

**Customer:** SIRENZA MICRODEVICES, INC.

**Operating Temperature Range:** ( -35 ° 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 -               | 200  | 250  | 300  | MHz     | X |         |
| Tuning Voltage:                 |      |      |      |         |   |         |
| 200 MHz                         | 1    | 2    |      | Vdc     | X |         |
| 300 MHz                         |      | 11   | 12   | Vdc     | X |         |
| Tuning Sensitivity -            | 8    | 11.5 | 15   | MHz/V   | X |         |
| Output Power -                  | -3   | 0    | 3    | dBm     | X |         |
| Output Phase Noise:             |      |      |      |         |   |         |
| 10 kHz                          |      | -110 | -104 | dBc/Hz  |   |         |
| 100 kHz                         |      | -130 | -124 | dBc/Hz  | X |         |
| Power Supply -                  | 4.75 | 5    | 5.25 | Volts   |   |         |
| Supply Current -                |      | 11   | 14   | mA      | X |         |
| Harmonic Suppression:           |      |      |      |         |   |         |
| 2nd Harmonic                    |      | -13  | -8   | dBc     | X |         |
| 3rd Harmonic                    |      | -13  | -8   | dBc     | X |         |
| Spurious (Non-Harmonic) -       |      |      | -80  | dBc     |   |         |
| Frequency Pushing - 4.75-5.25 V |      | 1.5  | 2    | MHz p-p |   |         |
| Frequency Pulling - 12 dB RL    |      | 0.4  | 1    | MHz p-p |   |         |
| Tuning Port Capacitance -       |      | 270  | 330  | pF      |   |         |
| Output Impedance -              |      | 50   |      | Ω       |   |         |

### Package Information

|               |                              |                 |       |
|---------------|------------------------------|-----------------|-------|
| Package Type: | T (0.5 x 0.5 x 0.156 inches) | Drawing Number: | 60035 |
|---------------|------------------------------|-----------------|-------|

### Comments

**X** Indicates parameter to be tested 100% in production

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