

## **VCO Product Specification**

 Model:
 VC0790-2965K
 Rev:
 P2
 Date:
 9/15/2004

 Customer:
 SIRENZA MICRODEVICES

**Operating Temperature Range:** (-40 ° to 85 ° C)

| Parameter                       | Min  | Тур  | Max  | Units   | X | Remarks  |
|---------------------------------|------|------|------|---------|---|----------|
| Frequency Range -               | 2865 |      | 3065 | MHz     | Х |          |
| Tuning Voltage:                 |      |      |      |         |   |          |
| 2865 MHz                        | 0.8  | 1.3  | 1    | Vdc     | Х |          |
| 3065 MHz                        |      | 2.4  | 3.5  | Vdc     | Х |          |
| Tuning Sensitivity -            | 140  |      | 200  | MHz/V   | Х |          |
| Output Power -                  | 4    | 6    | 10   | dBm     | Х |          |
| Output Phase Noise:             |      |      |      |         |   |          |
| 10 kHz                          |      | -89  | -75  | dBc/Hz  |   |          |
| 100 kHz                         |      | -111 | -95  | dBc/Hz  | Х |          |
| Power Supply -                  | 3.9  | 4.1  | 4.3  | Volts   |   | •        |
| Supply Current -                |      | 26   | 32   | mA      | Х | Vcc=4.1V |
| Harmonic Suppression:           |      |      |      |         |   |          |
| 2nd Harmonic                    |      | -20  | -10  | dBc     | X |          |
| Spurious (Non-Harmonic) -       |      |      | -50  | dBc     |   |          |
| Frequency Pushing - 3.9 - 4.3 V |      | 3    | 25   | MHz p-p |   |          |
| Frequency Pulling - 12 dB RL    |      | 27   | 34   | MHz p-p |   |          |
| Tuning Port Capacitance -       |      | 10   |      | pF      |   |          |

## Package Information

| Package Type: | к                        | Drawing Number:   | 60879 |
|---------------|--------------------------|-------------------|-------|
| Dimensions:   | 0.3 x 0.3 x 0.079 inches | Drawing Revision: | с     |

## Comments

X Indicates parameter to be tested 100% in production

X INDICATES PARAMETER TO BE TESTED 100% IN PRODUCTION

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