

## **VCO Product Specification**

**Model:** VCO-3500TC **Rev:** B **Date:** 3/1/2004

**Customer:** 

Operating Temperature Range: (-55 ° to 100 ° C)

| Parameter                             | Min   | Тур   | Max  | Units   | Х | Remarks    |
|---------------------------------------|-------|-------|------|---------|---|------------|
| Frequency Range -                     | 3490  |       | 3510 | MHz     | Х |            |
| Tuning Voltage:                       |       |       |      |         |   |            |
| 3490 MHz                              | 0     | 1.7   |      | Vdc     | Х |            |
| 3510 MHz                              |       | 3.4   | 5    | Vdc     | Х |            |
| Tuning Sensitivity -                  | 9     | 12    | 15   | MHz/V   | Х |            |
| Output Power -                        | -2    | 0.5   | 3    | dBm     | Х |            |
| Output Phase Noise:                   |       |       |      |         |   |            |
| 10 kHz                                |       | -100  | -94  | dBc/Hz  | Х |            |
| 100 kHz                               |       | -122  | -116 | dBc/Hz  | Х |            |
| Power Supply -                        | 4.75  | 5     | 5.25 | Volts   |   |            |
| Supply Current -                      |       | 17.5  | 20   | mA      | Х |            |
| Harmonic Suppression:                 |       |       |      |         |   |            |
| 2nd Harmonic                          |       | -15   | -10  | dBc     | Х |            |
| 3rd Harmonic                          |       | -20   | -10  | dBc     | Х |            |
| Spurious (Non-Harmonic) -             |       |       | -80  | dBc     |   |            |
| Frequency Pushing - 4.75 to<br>5.25 V |       | 0.75  | 2    | MHz p-p |   |            |
| Frequency Pulling - 12 dB RL          |       | 3     | 5    | MHz p-p |   |            |
| Tuning Port Capacitance -             |       | 22    |      | pF      |   |            |
| Output Impedance -                    |       | 50    |      | Ω       |   |            |
| Modulation:                           |       |       |      |         |   |            |
| Bandwidth                             | 20000 | 30000 |      | kHz     |   | Zg=50 Ohms |

## **Package Information**

| Package T | ype:  | SMT-2 | Drawing Number:   | A21959 |
|-----------|---|-------|-------------------|--------|
| Dimensi   | Dimensions: $0.45 \times 0.45 \times 0.17$ inches |       | Drawing Revision: | В      |

## Comments

 $\boldsymbol{X}$  Indicates parameter to be tested 100% in production

Also Available In TO-8 Package.

Frequency Drift < 0.2 MHz/C

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