

VCO Product Specification

Model: VCO-102TC **Rev:** A **Date:** 7/22/2002

Customer: SIRENZA MICRODEVICES, INC.

Operating Temperature Range: $(-55 \circ to 100 \circ C)$

| | | _ | | 1 | | : |
|-------------------------------------|-------|------|-------|---------|---|---------|
| Parameter - | Min | Тур | Max | Units | X | Remarks |
| Frequency Range - | 25 | | 50 | MHz | Х | |
| Гuning Voltage: | | | | | | |
| 25 MHz | 0 | 1.2 | | Vdc | Х | |
| 50 MHz | | 17 | 20 | Vdc | Х | |
| uning Sensitivity: | | | | | | |
| 25 MHz | 1 | 1.3 | 1.7 | MHz/V | Х | |
| 31.25 MHz | 1.6 | 2.1 | 2.7 | MHz/V | Х | |
| 37.5 MHz | 1.8 | 2.4 | 2.9 | MHz/V | Х | |
| 43.75 MHz | 1.2 | 1.6 | 2 | MHz/V | Х | |
| 50 MHz | 0.6 | 0.8 | 1 | MHz/V | Х | |
| Output Power - | 10 | 12.5 | 16 | dBm | Х | |
| Output Phase Noise: | | | | | | |
| 10 kHz | | -115 | -109 | dBc/Hz | Х | |
| 100 kHz | | -135 | -129 | dBc/Hz | Х | |
| 1000 kHz | | -160 | -154 | dBc/Hz | Х | |
| ower Supply - | 14.75 | 15 | 15.25 | Volts | Х | |
| upply Current - | | 12.5 | 15 | mA | Х | |
| armonic Suppression: | | | | | | |
| 2nd Harmonic | | -15 | -10 | dBc | Х | |
| 3rd Harmonic | | -12 | -10 | dBc | Х | |
| purious (Non-Harmonic) - | | | -80 | dBc | | |
| requency Pushing - 14.75- 5.25 V | | 0.05 | 0.1 | MHz p-p | | |
| requency Pulling - 12 dB RL | | 0.5 | 1.25 | MHz p-p | | |
| output Impedance - | | 50 | | Ω | | |
| 1odulation: | | | | | | |
| Bandwidth | 80 | 125 | | kHz | | |
| Input Impedance | | 0.05 | | kΩ | | |

Package Information

| | Package Type: | TO-8 (Cir) | Drawing Number: | A8678 |
|---|---------------|-----------------------------|-------------------|-------|
| I | Dimensions: | 0.504 x 0.504 x 0.27 inches | Drawing Revision: | Р |

Comments

X Indicates parameter to be tested 100% in production

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Sirenza Microdevices, Inc.

303 S. Technology Ct.

Broomfield, CO 80021

tel 303.327.3030

fax 303.410.7988