



VCO Product Specification

Model: VCO793-1550T **Rev:** E **Date:** 11/21/2003

Customer: SIRENZA MICRODEVICES, INC.

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

| Parameter | Min | Typ | Max | Units | X | Remarks |
|---------------------------------|------|------|------|---------|---|---------|
| Frequency Range - | 950 | 1550 | 2150 | MHz | X | |
| Tuning Voltage: | | | | | | |
| 950 MHz | 0.5 | 1.2 | | Vdc | X | |
| 2150 MHz | | 18 | 22 | Vdc | X | |
| Tuning Sensitivity: | | | | | | |
| 950 MHz | 49 | 65 | 81 | MHz/V | X | |
| 1150 MHz | 50 | 68 | 87 | MHz/V | X | |
| 1350 MHz | 50 | 68 | 87 | MHz/V | X | |
| 1550 MHz | 55 | 75 | 95 | MHz/V | X | |
| 1750 MHz | 52 | 72 | 92 | MHz/V | X | |
| 1950 MHz | 42 | 63 | 85 | MHz/V | X | |
| 2150 MHz | 30 | 50 | 70 | MHz/V | X | |
| Output Power - | 3 | 7 | 11 | dBm | X | |
| Output Phase Noise: | | | | | | |
| 10 kHz | | -98 | -93 | dBc/Hz | | |
| 100 kHz | | -118 | -113 | dBc/Hz | X | |
| Power Supply - | 11.5 | 12 | 12.5 | Volts | X | |
| Supply Current - | | 25 | 30 | mA | X | |
| Harmonic Suppression: | | | | | | |
| 2nd Harmonic | | -8 | -4 | dBc | X | |
| 3rd Harmonic | | -18 | -10 | dBc | X | |
| Spurious (Non-Harmonic) - | | | -80 | dBc | | |
| Frequency Pushing - 11.5-12.5 V | | 2.5 | 5 | MHz p-p | | |
| Frequency Pulling - 12 dB RL | | 7 | 10 | MHz p-p | | |
| Tuning Port Capacitance - | | 100 | | 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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