



VCO Product Specification

Model: VCO190-1500T(Y) **Rev:** B **Date:** 8/11/2006

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 - | 1450 | 1500 | 1550 | MHz | X | |
| Tuning Voltage: | | | | | | |
| 1450 MHz | 1 | 1.8 | | Vdc | X | |
| 1550 MHz | | 4.8 | 6 | Vdc | X | |
| Tuning Sensitivity - | 20 | 33 | 45 | MHz/V | X | |
| Output Power - | 0 | 3 | 6 | dBm | X | |
| Output Phase Noise: | | | | | | |
| 10 kHz | | -100 | -94 | dBc/Hz | | |
| 100 kHz | | -122 | -116 | dBc/Hz | X | |
| Power Supply - | 4.75 | 5 | 5.25 | Volts | | |
| Supply Current - | | 11 | 15 | mA | X | |
| Harmonic Suppression: | | | | | | |
| 2nd Harmonic | | -15 | -10 | dBc | X | |
| 3rd Harmonic | | -20 | -10 | dBc | X | |
| Spurious (Non-Harmonic) - | | | -90 | dBc | | |
| Frequency Pushing - 4.75-5.25 V | | 1 | 2 | MHz p-p | | |
| Frequency Pulling - 12 dB RL | | 3 | 5 | MHz p-p | | |
| Tuning Port Capacitance - | | 47 | | 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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