

VCO Product Specification

Model: VCO190-775T **Rev:** A **Date:** 4/22/2003
Customer: VARI-L COMPANY
Operating Temperature Range: (-35 ° to 85 ° C)

| Parameter | Min | Typ | Max | Units | X | Remarks |
|---------------------------------|------|------|------|----------|---|---------|
| Frequency Range - | 700 | 775 | 850 | MHz | X | |
| Tuning Voltage: | | | | | | |
| 700 MHz | 1 | 1.6 | | Vdc | X | |
| 850 MHz | | 8.4 | 9.5 | Vdc | X | |
| Tuning Sensitivity - | 15 | 27 | 40 | MHz/V | X | |
| Output Power - | -3 | 0 | 3 | dBm | X | |
| Output Phase Noise: | | | | | | |
| 10 kHz | | -109 | -103 | dBc/Hz | | |
| 100 kHz | | -129 | -123 | dBc/Hz | X | |
| Power Supply - | 4.75 | 5 | 5.25 | Volts | | |
| Supply Current - | | 10 | 14 | 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 | | 1.8 | 5 | MHz p-p | | |
| Frequency Pulling - 12 dB RL | | 0.8 | 2.2 | 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