

VCO Product Specification

Model: VCO-216 **Rev:** - **Date:** 7/22/2002
Customer: VARI-L COMPANY
Operating Temperature Range: (0 ° to 70 ° C)

| Parameter | Min | Typ | Max | Units | X | Remarks |
|------------------------------|-------|------|-------|------------|---|---------|
| Frequency Range - | 150 | | 300 | MHz | X | |
| Tuning Voltage: | | | | | | |
| 150 MHz | 0 | 1.4 | | Vdc | X | |
| 300 MHz | | 17 | 20 | Vdc | X | |
| Tuning Sensitivity: | | | | | | |
| 150 MHz | 6.5 | 8.7 | 10.8 | MHz/V | X | |
| 187.5 MHz | 7.6 | 10.2 | 12.7 | MHz/V | X | |
| 225 MHz | 10.2 | 13.6 | 17 | MHz/V | X | |
| 262.5 MHz | 7.5 | 10.1 | 12.6 | MHz/V | X | |
| 300 MHz | 4 | 5.3 | 6.6 | MHz/V | X | |
| Output Power - | 10 | 13 | 16 | dBm | X | |
| Output Phase Noise: | | | | | | |
| 10 kHz | | -110 | -104 | dBc/Hz | X | |
| 100 kHz | | -130 | -124 | dBc/Hz | X | |
| 1000 kHz | | -155 | -149 | dBc/Hz | X | |
| Power Supply - | 14.75 | 15 | 15.25 | Volts | X | |
| Supply Current - | | 13.7 | 16 | mA | X | |
| Harmonic Suppression: | | | | | | |
| 2nd Harmonic | | -22 | -18 | dBc | X | |
| 3rd Harmonic | | -18 | -14 | dBc | X | |
| Spurious (Non-Harmonic) - | | | -80 | dBc | | |
| Frequency Pushing - 14-16V | | 0.25 | 0.4 | MHz p-p | X | |
| Frequency Pulling - 12 dB RL | | 4 | 8 | MHz p-p | | |
| Output Impedance - | | 50 | | Ω | | |
| Modulation: | | | | | | |
| Bandwidth | 5000 | 7000 | | kHz | | |
| Input Impedance | | 0.05 | | k Ω | | |

Package Information

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

Comments

X Indicates parameter to be tested 100% in production

Page 1 of 1