

WaveSources

Reno, Nevada 775-322-0968

V-1950A-010-4.6

Surface Mount Voltage Controlled Oscillator

1750 – 2150 MHZ

Electrical Specifications, Test Data @ 25°C Subject to change without notice

| PARAMETER | TEST CONDITIONS | UNITS | MIN | TYP | MAX |
|-------------------------------|----------------------|--------|--------|-------|--------|
| FREQUENCY RANGE | | MHZ | 1750.0 | | 2150.0 |
| TUNING VOLTAGE ³ | | V | 2.5 | | 20.0 |
| MOD SENSE ¹ | | MHZ/V | 18 | | 30 |
| OUTPUT POWER ^{1,2} | | dBm | | 5.0 | |
| PUSHING | VCC 4.35 – 4.85 | MHZ/V | | <6.5 | 8.0 |
| PULLING | @12db RL, All Angles | MHZ | | <12.0 | 15.0 |
| POWER FLATNESS ^{1,2} | | dBm | | | +/-2 |
| HARMONICS ^{ALL} | | dBc | | -15 | -12 |
| SPURIOUS | | dBc | | | -70 |
| PHASE NOISE | SSB @1KHZ | dBc/HZ | | -60 | -50 |
| | SSB @10KHZ | dBc/HZ | | -88 | -80 |
| | SSB @100KHZ | dBc/HZ | | -108 | -100 |
| | SSB @1000KHZ | dBc/HZ | | -115 | -120 |
| TEMP RANGE | | °C | -40 | | 85 |
| TEMP DRIFT | | KHZ/°C | | | |
| VCC | | V | +4.35 | +4.6 | +4.85 |
| ICC | | MA | | 35 | 50 |
| TUNE CAPACITANCE | | PF | | | 50 |

1. All data specified are with a 50 Ohm load termination.
2. Power Flatness is specified @ MIN, MAX frequencies, and Temp Range.
3. Guaranteed to Operate at 0 and 10 volts.