

WaveSources

Reno, Nevada 775-322-0968

V-650-010-5

Surface Mount Voltage Controlled Oscillator

620 - 680 MHZ

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

| PARAMETER | TEST CONDITIONS | UNITS | MIN | TYP | MAX |
|-------------------------------|----------------------|--------|-------|------|-------|
| FREQUENCY RANGE | | MHZ | 620.0 | | 680.0 |
| TUNING VOLTAGE ³ | | V | 0.5 | | 4.5 |
| MOD SENSE ¹ | | MHZ/V | 14 | | 22 |
| OUTPUT POWER ^{1,2} | | dBm | | 2.0 | |
| PUSHING | VCC 4.75 – 5.25 | MHZ/V | | <1.0 | 2.0 |
| PULLING | @12db RL, All Angles | MHZ | | <1.0 | 2.0 |
| POWER FLATNESS ^{1,2} | | dBm | | | +/-2 |
| HARMONICS ^{ALL} | | dBc | | -14 | -12 |
| SPURIOUS | | dBc | | | -70 |
| PHASE NOISE | SSB @1KHZ | dBc/HZ | | -75 | -72 |
| | SSB @10KHZ | dBc/HZ | | -105 | -102 |
| | SSB @100KHZ | dBc/HZ | | -125 | -122 |
| | SSB @1000KHZ | dBc/HZ | | -140 | -138 |
| TEMP RANGE | | °C | -30 | | +75 |
| TEMP DRIFT | | KHZ/°C | | | |
| VCC | | V | +4.75 | +5.0 | +5.25 |
| ICC | | MA | | | 15 |
| 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.