

Ultralow noise 665 to 685 MHz

Features

- Low phase noise
- Linear tuning characteristics
- Low pushing / Low pulling
- Aqueous washable

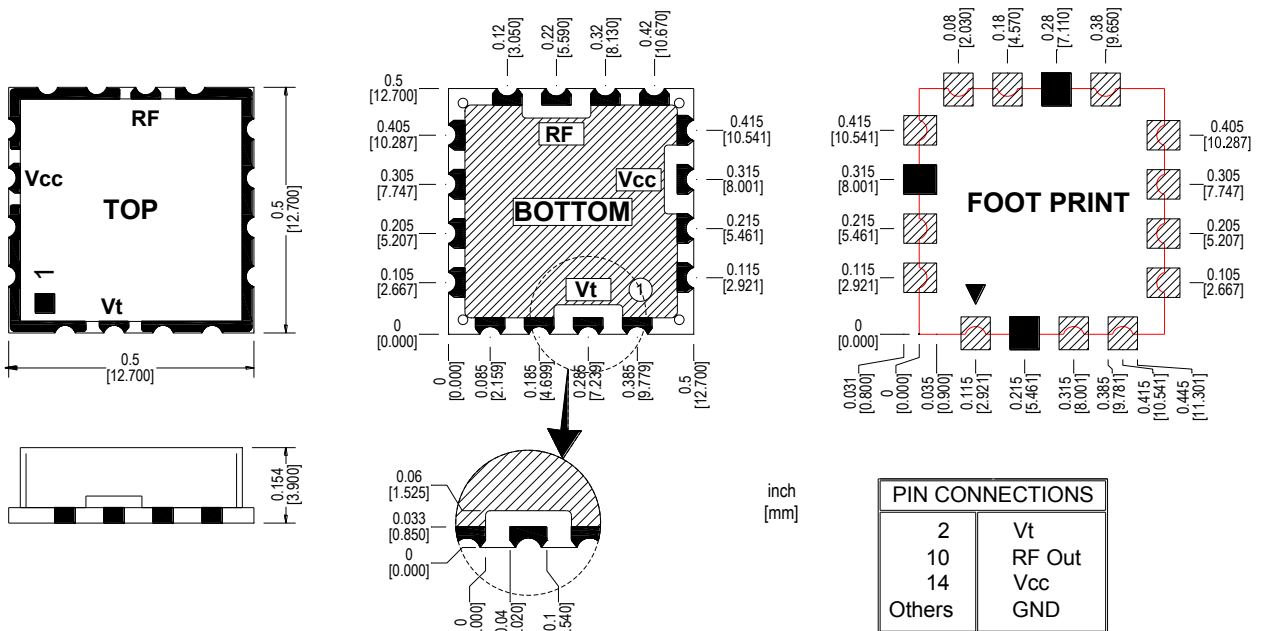
Applications

- SATCOM
- Receiver
- Test Equipment
- Radar
- Point-to-Point
- Radio
- MMDS
- WiMax

Electrical Characteristics

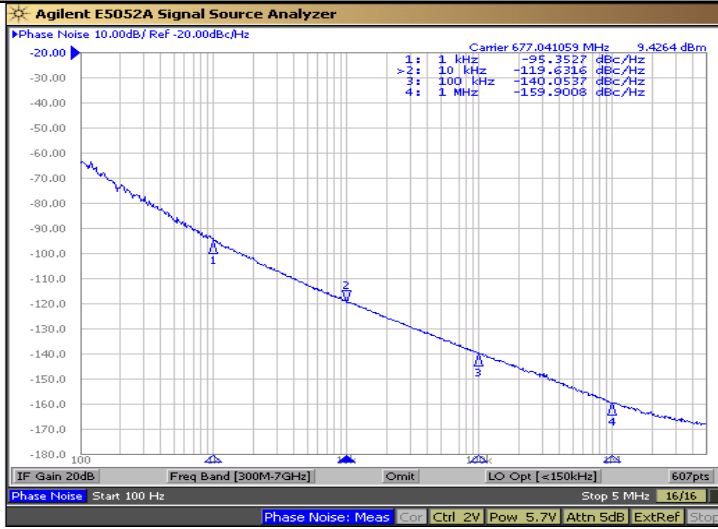
| Parameter | Units | Min | Typ | Max |
|---------------------------------|--------------------|------|------|------|
| Operating Frequency Range | MHz | 665 | | 685 |
| Output Power | dBm | +5.0 | +7.0 | +9.0 |
| Output Impedance | Ω | | 50 | |
| Phase Noise | @10kHz offset | | -119 | -114 |
| | @100kHz offset | | -139 | -134 |
| Tuning Voltage (Vt) | Vdc | 0 | | 5.0 |
| Tuning Voltage Sensitivity (Kv) | MHz/V | | 10 | |
| 2nd Harmonic Suppression | dBc | | -12 | |
| Power Supply (Vcc) | Voltage | Vdc | 5 | |
| | Current | mA | 27 | |
| Pushing Figure | MHz/V | | 3 | |
| Pulling Figure | MHz | | 8 | |
| Input Capacitance | pF | | 100 | |
| Operating Temp. Range | $^{\circ}\text{C}$ | -40 | | +85 |

Dimensions



GSVCO1202
Surface Mount
Voltage Controlled Oscillator

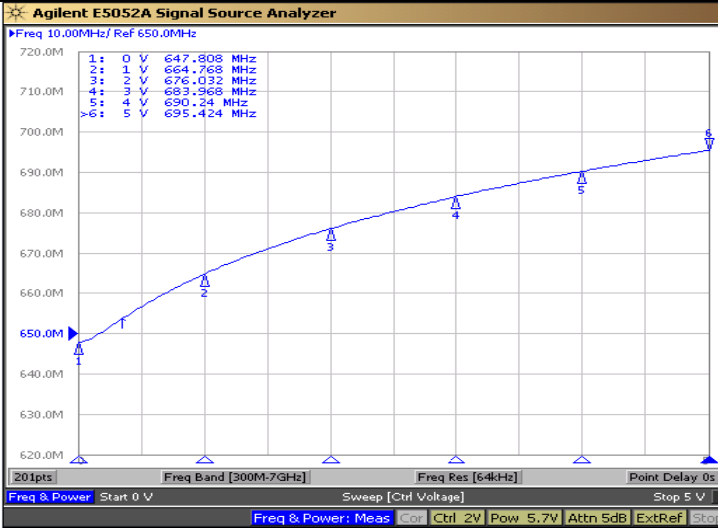
Phase Noise(@677MHz)



Phase Noise

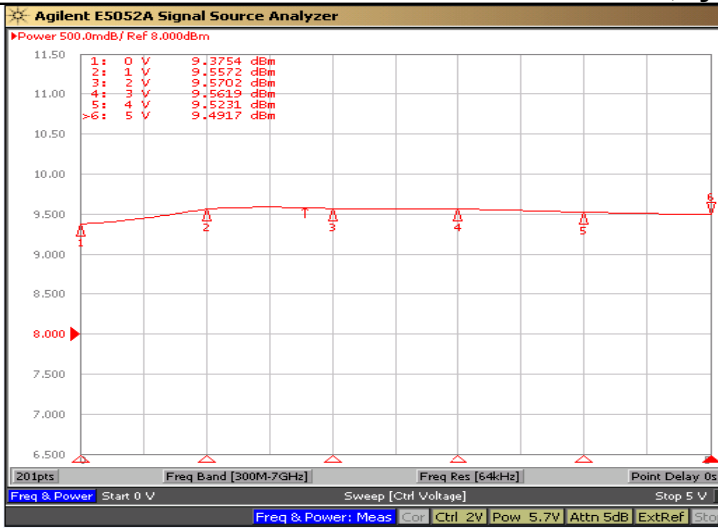
| offset | dBc/Hz |
|--------|--------|
| 1kHz | -95 |
| 10kHz | -119 |
| 25kHz | -127 |
| 100kHz | -140 |
| 1MHz | -159 |

Tuning Curve, typ.



| Vtune(V) | Freq(MHz) | Kv(MHz/V) |
|----------|-----------|-----------|
| 0 | 647.8 | |
| 1 | 664.7 | 16.9 |
| 2 | 676.0 | 11.3 |
| 3 | 683.9 | 7.9 |
| 4 | 690.2 | 6.3 |
| 5 | 695.4 | 5.2 |

Power Curve, typ.



Power Level: 9dBm

| Vtune(V) | Power Level(dBm) |
|----------|------------------|
| 0 | 9.3 |
| 1 | 9.5 |
| 2 | 9.5 |
| 3 | 9.5 |
| 4 | 9.5 |
| 5 | 9.5 |