



# VCO R4900\_1SMUA5CR

rev\_0

initial rev

|                              | <u>MIN</u> | <u>TYP</u> | <u>MAX</u> | <u>UNITS</u>       | <u>NOTES</u> | <u>Production Test</u>   | <u>First Article Test</u> |
|------------------------------|------------|------------|------------|--------------------|--------------|--------------------------|---------------------------|
| Frequency Range              | 4900       |            | 4900       | MHz                | 1            | <input type="checkbox"/> | <input type="checkbox"/>  |
| Tuning Voltage               | 0.5        |            | 4.5        | V                  | 1            | <input type="checkbox"/> | <input type="checkbox"/>  |
| Modulation Sensitivity       |            | 11         |            | MHz/V              | 10           | <input type="checkbox"/> | <input type="checkbox"/>  |
| Operates with Vtune = 0V     |            |            |            |                    | 1            | <input type="checkbox"/> | <input type="checkbox"/>  |
| Output Power                 | 1          | 3          | 5          | dBm                | 1            | <input type="checkbox"/> | <input type="checkbox"/>  |
| Phase Noise @                |            |            |            |                    |              |                          |                           |
| 1 KHz Offset                 |            | -80        | -75        | dBc/Hz             | 1            | <input type="checkbox"/> | <input type="checkbox"/>  |
| 10 KHz Offset                |            | -107       | -102       | dBc/Hz             | 1            | <input type="checkbox"/> | <input type="checkbox"/>  |
| 100 KHz Offset               |            | -127       | -122       | dBc/Hz             | 1            | <input type="checkbox"/> | <input type="checkbox"/>  |
| 1 MHz Offset                 |            | -147       | -142       | dBc/Hz             | 1            | <input type="checkbox"/> | <input type="checkbox"/>  |
| 10 MHz Offset                |            | -164       | -159       | dBc/Hz             | 1            | <input type="checkbox"/> | <input type="checkbox"/>  |
| Pushing                      |            | 0.5        |            | MHz/V              | 3            | <input type="checkbox"/> | <input type="checkbox"/>  |
| Pulling (12dB RL, any phase) |            | 0.5        |            | MHz <sub>p-p</sub> | 3            | <input type="checkbox"/> | <input type="checkbox"/>  |
| Modulation Bandwidth         |            | 1          |            | MHz                | 4            | <input type="checkbox"/> | <input type="checkbox"/>  |
| Tuning Port Capacitance      |            | 33         |            | pF                 | 2            | <input type="checkbox"/> | <input type="checkbox"/>  |
| Harmonics                    |            | -15        | -10        | dBc                | 3            | <input type="checkbox"/> | <input type="checkbox"/>  |
| Vcc                          |            | 5.0        |            | V                  |              |                          |                           |
| Icc                          |            | 28         |            | mA                 | 1            | <input type="checkbox"/> | <input type="checkbox"/>  |
| Operating Temperature        | -40        |            | +85        | C                  | 3            | <input type="checkbox"/> | <input type="checkbox"/>  |
| Package                      |            | SMUA       |            |                    | 6            | <input type="checkbox"/> | <input type="checkbox"/>  |
| LxW                          |            | 0.500      |            | inch sq.           | 5            | <input type="checkbox"/> | <input type="checkbox"/>  |
| Height                       |            | 0.220      |            | inch               | 5            | <input type="checkbox"/> | <input type="checkbox"/>  |

## Notes

1. Tested in production, and guaranteed
2. Per current design, not a tested parameter
3. Sample tested from production lot
4. Not a tested or guaranteed design goal
5. By inspection
6. RoHS compliant
7. Parylene Conformal Coating
8. Foam Filled
9. Conformal Coating and Foam Fill
10. Design goal subject to change