



# VCO R082085SMUA5\_135

rev\_0

initial rev

|                              |     |       |      |                    |       | Production               | First Article            |
|------------------------------|-----|-------|------|--------------------|-------|--------------------------|--------------------------|
|                              | MIN | TYP   | MAX  | UNITS              | NOTES | Test                     | Test                     |
| Frequency Range              | 823 |       | 849  | MHz                | 1     | <input type="checkbox"/> | <input type="checkbox"/> |
| Tuning Voltage               | 0.5 |       | 4.5  | V                  | 1     | <input type="checkbox"/> | <input type="checkbox"/> |
| Modulation Sensitivity       |     | 13    |      | MHz/V              | 1     | <input type="checkbox"/> | <input type="checkbox"/> |
| Operates with Vtune = 0V     |     |       |      |                    | 1     | <input type="checkbox"/> | <input type="checkbox"/> |
| Output Power                 | 5   | 7     | 9    | dBm                | 1     | <input type="checkbox"/> | <input type="checkbox"/> |
| Phase Noise @                |     |       |      |                    |       |                          |                          |
| 1 KHz Offset                 |     | -88   | -83  | dBc/Hz             | 1     | <input type="checkbox"/> | <input type="checkbox"/> |
| 10 KHz Offset                |     | -113  | -108 | dBc/Hz             | 1     | <input type="checkbox"/> | <input type="checkbox"/> |
| 100 KHz Offset               |     | -133  | -128 | dBc/Hz             | 1     | <input type="checkbox"/> | <input type="checkbox"/> |
| 1 MHz Offset                 |     | -153  | -148 | dBc/Hz             | 1     | <input type="checkbox"/> | <input type="checkbox"/> |
| 10 MHz Offset                |     | -164  | -155 | dBc/Hz             | 1     | <input type="checkbox"/> | <input type="checkbox"/> |
| Pushing                      |     | 0.3   |      | MHz/V              | 3     | <input type="checkbox"/> | <input type="checkbox"/> |
| Pulling (12dB RL, any phase) |     | 3     |      | 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      |     | 47    |      | pF                 | 2     | <input type="checkbox"/> | <input type="checkbox"/> |
| 2nd Harmonic                 |     | -15   | -10  | dBc                | 3     | <input type="checkbox"/> | <input type="checkbox"/> |
| Vcc                          |     | 5.0   |      | V                  |       |                          |                          |
| Icc                          |     | 30    |      | 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                       |     | 0.135 |      | 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. Solder Mask on bottom of unit
9. Foam Filled
10. Conformal Coating and Foam Fill
11. Design goal subject to change