CC1310 433 MHz Preliminary Performance Figures

1 Introduction

The performance figures below were measured on CC1310 PG2.0 typical devices at f = 433 MHz, 3.0 V VDDS, room temperature, 50 ohm load, 98 kHz RX filter bandwidth, using the CC13xxEM-7XD-4251_0_1_0 design with L331 changed to 6.8 uH. System parameters: 50 kbps, 25 kHz deviation, GFSK. The reference point for the measurements was at the SMA connector so any losses in the external RX/TX path is accounted for in the measurements.

Table 1. Transmit Mode

Setting	Output Power [dBm]	2nd Harmonic [dBm]	3rd Harmonic [dBm]	TX current @3V [mA]
Maximum output power	14.8	-42.8	-36.7	31.7
+10 dBm setting	10.1	-48.2	-57.1	15.4

Table 2. Receive Mode

Sensitivity [dBm]	RX current @3V [mA]	RX current @3.6V [mA]
-110.2 dBm	6.2	5.2