



### ABS. MAX. RATINGS

Transceiver Power Supply +Vdd (pin 15)	+ 6 V
Max. Voltage allowed on pins 5, 13, 14	+ 6 V
Storage Temperature	- 40 ÷ + 100° C

### ELECTRICAL CHARACTERISTICS ( SEE NOTE 1 )

Parameter	Min.	Typ.	Max.	Unit	Notes
Transceiver Power Supply +Vcc (pin 15)	2.3	3.6	5.5	V	
Current Consumption	Stand-by	-	50	µA	
	Idle	-	1.3	mA	
	Transmission	-	31	mA	Note 2
	Reception @ LNA_GAIN = Low	-	11	mA	
	Reception @ LNA_GAIN = High	-	12	mA	
Vlow on I/O pins	0		0.3*Vcc	V	
Vhigh on I/O pins	0.7*Vcc		+ Vcc	V	
<b>Receiver Technical Characteristics:</b>					
Sensitivity @ LNA_GAIN = Low	-	-85	-	dBm	Note 3
Sensitivity @ LNA_GAIN = High	-	-102	-	dBm	
Centre Frequency	-	868.30	-	MHz	
Δf demodulated	±15	-	±80	kHz	
Baud Rate	-	-	2400	Baud	Note 4
<b>Transmitter Technical Characteristics:</b>					
Output Power (on 50 Ohm load)	-	+7.5	-	dBm	
Centre Frequency	-	868.30	-	MHz	
Deviation Δf	-	±20	-	kHz	

**Note 1:** All RF parameters measured with Input/Output (pin 2) connected to 50 Ohm impedance signal source or load.

**Note 2:** Current consumption measured at typical power supply level of +3.6V. Tx data signal on CW mode.

**Note 3:** Measure done with FM modulated signal, square wave, frequency 1.2kHz and deviation  $\Delta f = \pm 20\text{kHz}$ ;  $B_f = 280\text{kHz}$ .

**Note 4:** On request is possible, through hardware modifications, to achieve datarates up to 20kBaud.

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