
Document Version: 1.9

1: Introduce

The WM2400 Based on the Chipcon CC2400 radio transceiver chip. The designer can use this part as a drop-in subsystem component, and never has to care about things like impedance matching or soldering fine pitch devices.

2. Pin definition

Pin Number	Signal
1	SO
2	SCLK
3	SI
4	DIO
5	GND
6	VDD
7	REFCLK(16Mhz)
8	AVDD
9	DCLK
10	NC
11	CSn

3. Operating Rang

Parameters	Min	Max	Unit
Supply Voltage	2.2	5.5	V
Temperature ambient	-10	60	°C

4. Electrical Specification

Tc=25°C ,RFMOD_VDD=3V if nothing else stated

NO	Parameters	Min	Typ	Max	Unit	Condition
1	Supply					
1.1	supply voltage	2.2		5.5	V	
2	Current consumption					
2.1	power down mode		20		uA	
2.2	Idle mode		2		mA	
2.3	Rx states		20		mA	
2.4	Tx states		23		mA	
2.5	Voltage regulator current draw		10		uA	
3	Transmitter Part					
3.1	Tx data rate		1000		Kbps	
3.2	Frequency range	2400		2483.5	MHz	
3.3	Output power		-7		dBm	
3.4	Spurious emissions 25MHz-1GHz		-36		dBm	
	47-74,87.5-118,174-230,470-862MHz		-54		dBm	
	1800-1900MHz		-47		dBm	
	At 2-RF and 3-RF		-41		dBm	
	Otherwise above 1GHz		-30		dBm	
4	Receiver Part					
4.1	Receiver sensitivity		-80		dBm	
4.2	Saturation		-13		dBm	
4.3	Adjacent channel rejection		21		dB	Desired channel 3 dB above the sensitivity limit. 750kHz channel spacing
4.4	Alternate channel rejection		30		dB	Desired channel 3 dB above the sensitivity limit. 750kHz channel spacing

5. PCB Diagram

