

A

B

C

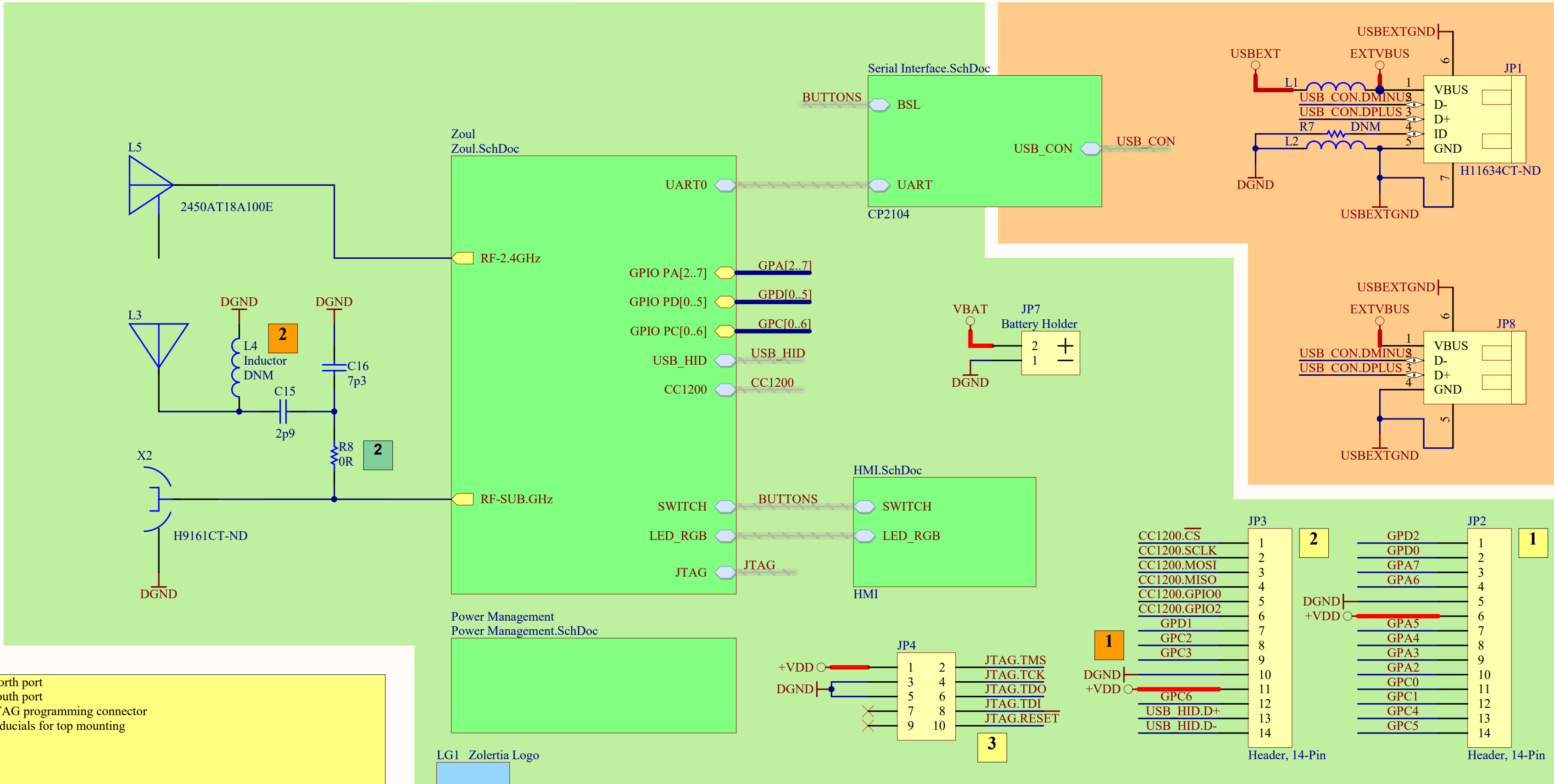
D

A

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D

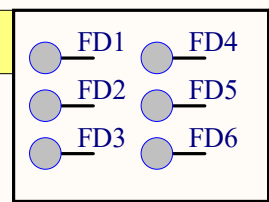


1. North port
2. South port
3. JTAG programming connector
4. Fiducials for top mounting

1. GPC2, GPC3, VDD and DGND can be used for ziglet connection.
2. Components placed to set appropriate filter. As default will be placed a 7p3 shunt capacitor with a 2p9 capacitor in serie.

1. Ground planes are showed in different colours
2. Depend the width of track impedance, change format resistor. Also try to select biggest size for easy mount/unmount.

1	Power Supply Plane	DGND
	Digital Plane	DGND



Project Name	Breakout ZOL-BO001	Sheet	1
Title	Main	Version	A1
Author	Toni Lozano	Date	24/05/2016

Performed	Revised	Approved

Comments	
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A

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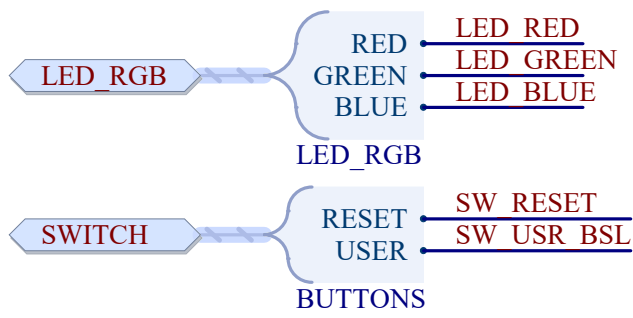
D

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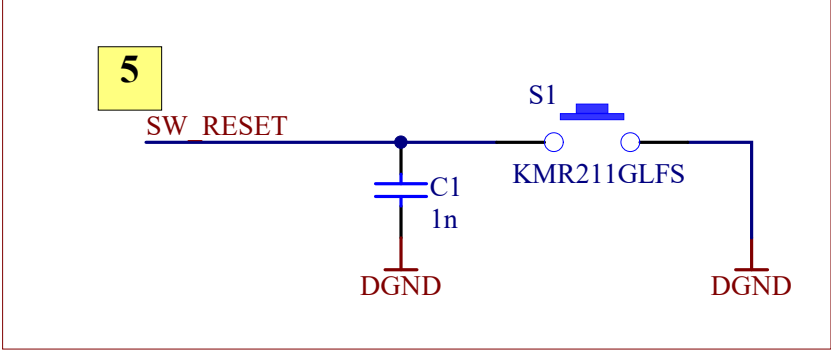
B

C

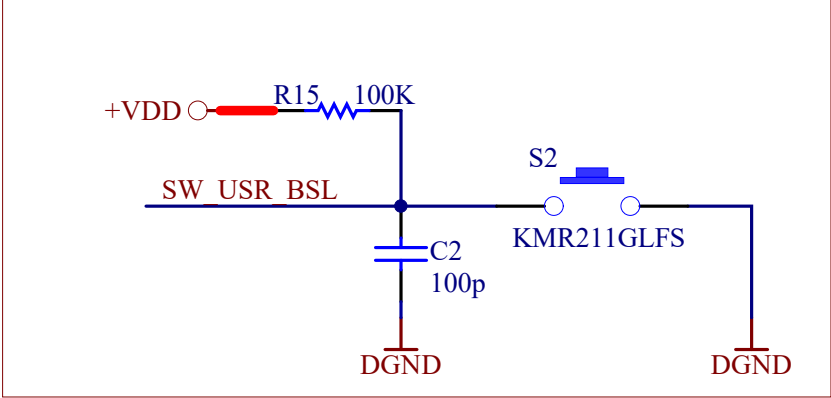
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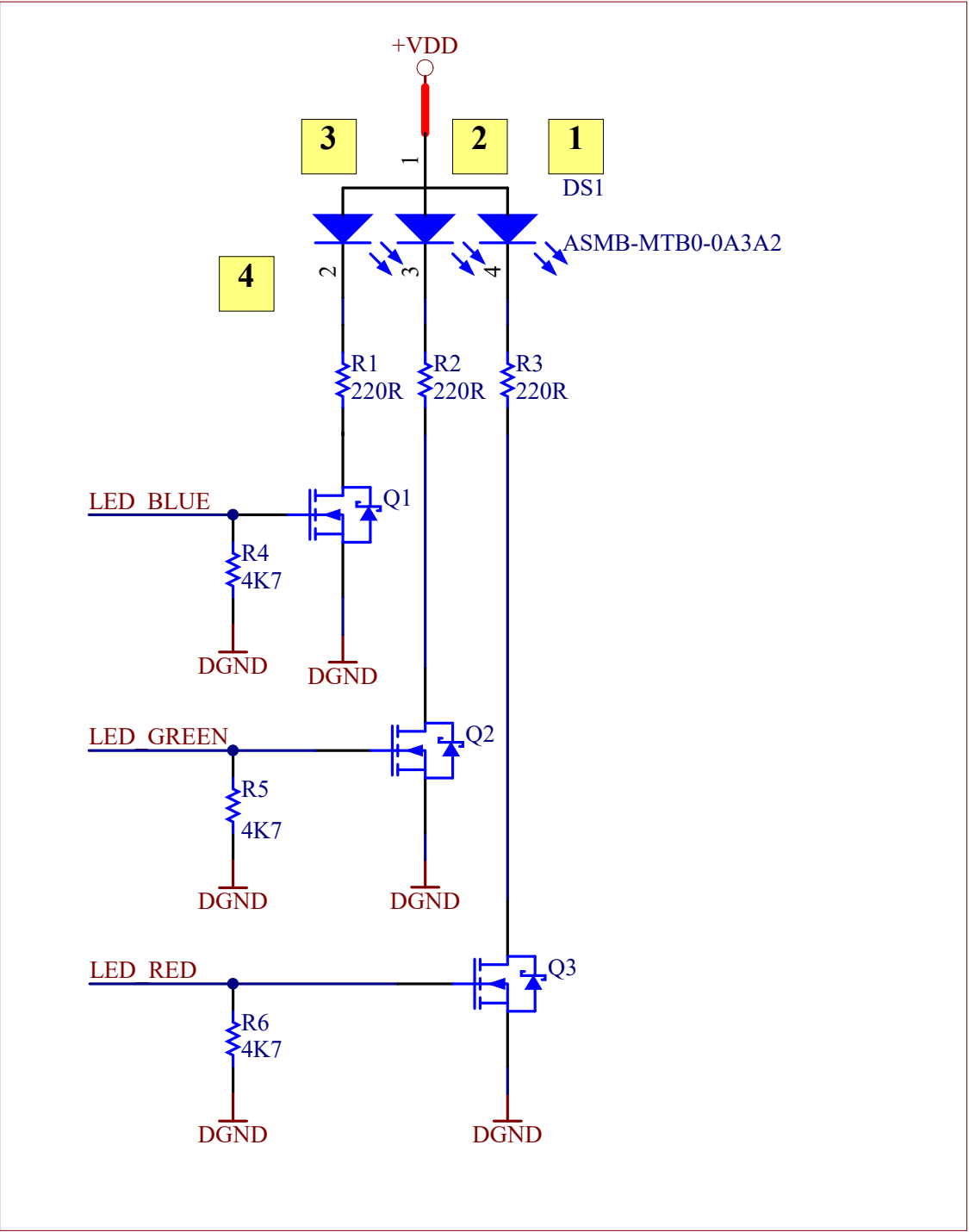
Reset Button



User Buttons



RGB Led



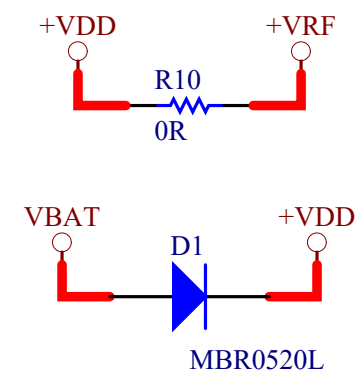
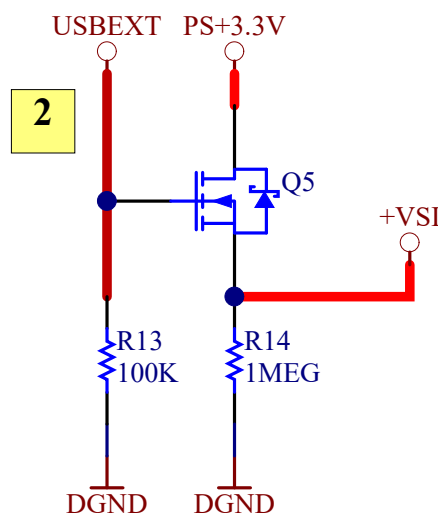
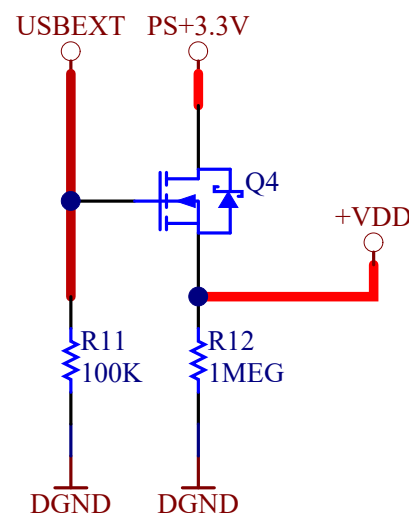
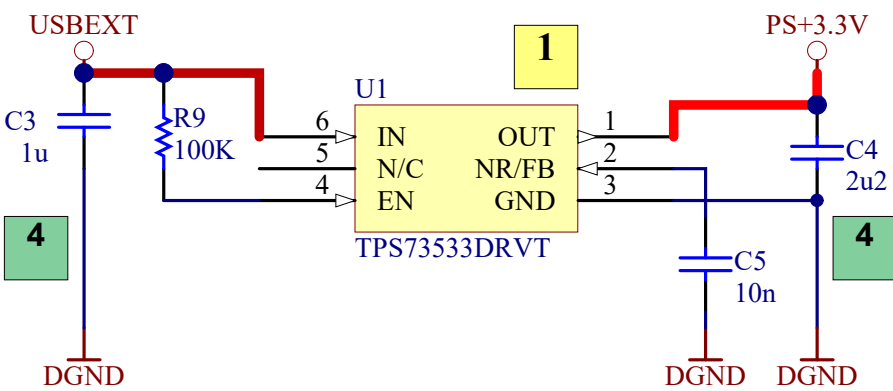
- 1. Red Led
- 2. Green Led
- 3. Blue Led
- 4. Common Anode
- 5. Pull up in other sheet

1.

1.

Project Name	Breakout ZOL-BO001	Sheet	2
Title	HMI	Version	A1
Author	Toni Lozano	Date	24/05/2016
Comments			

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1. 500mA, Low Quiescent Current, Ultra-Low Noise, High PSRR
2 - Circuit used to prevent D+3.3V circuitry in constant consumption. Is only powered when USB external supply is present.

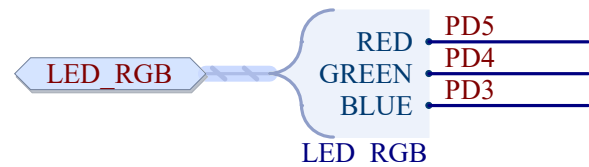
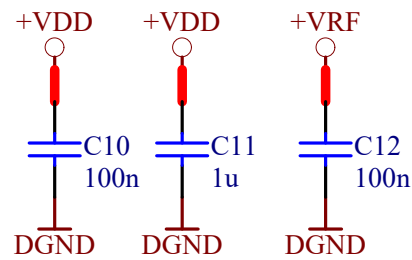
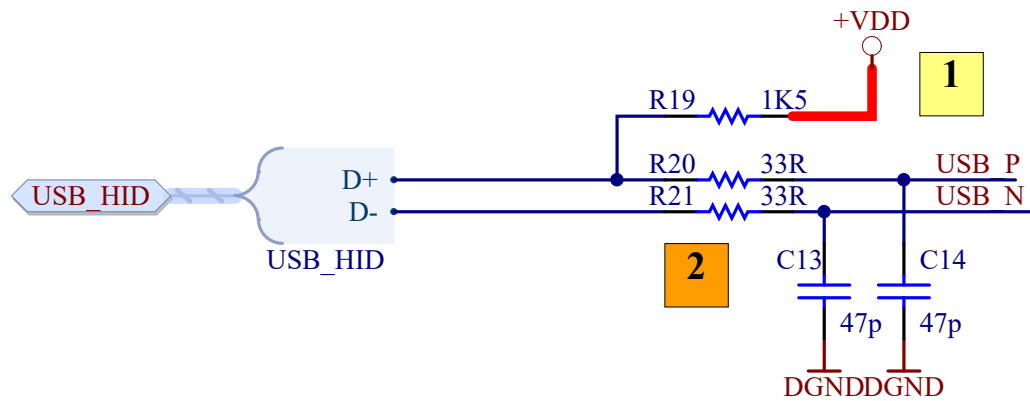
1 - Place the capacitors as close as possible to the I/O pins.
2 - Pin 4 (NC) better connect to GND to avoid noise, because cap can go closer
4 - Place the capacitors as close as possible to the I/O pins.

Project Name	Breakout ZOL-BO001	Sheet	3
Title	Power Management	Version	A1
Author	Toni Lozano	Date	24/05/2016
Comments			

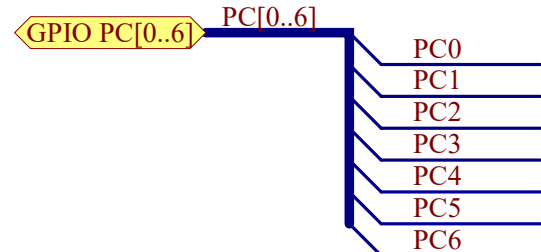
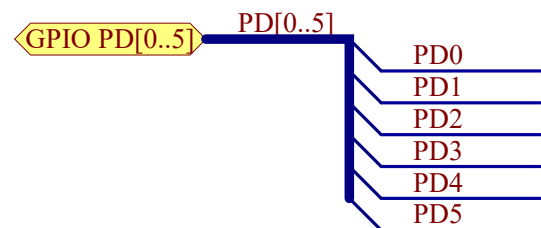
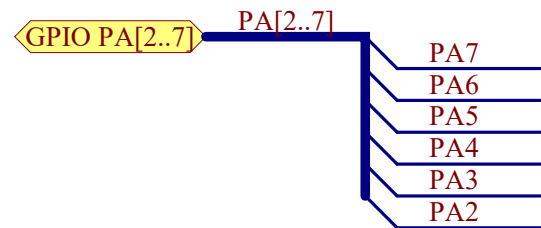
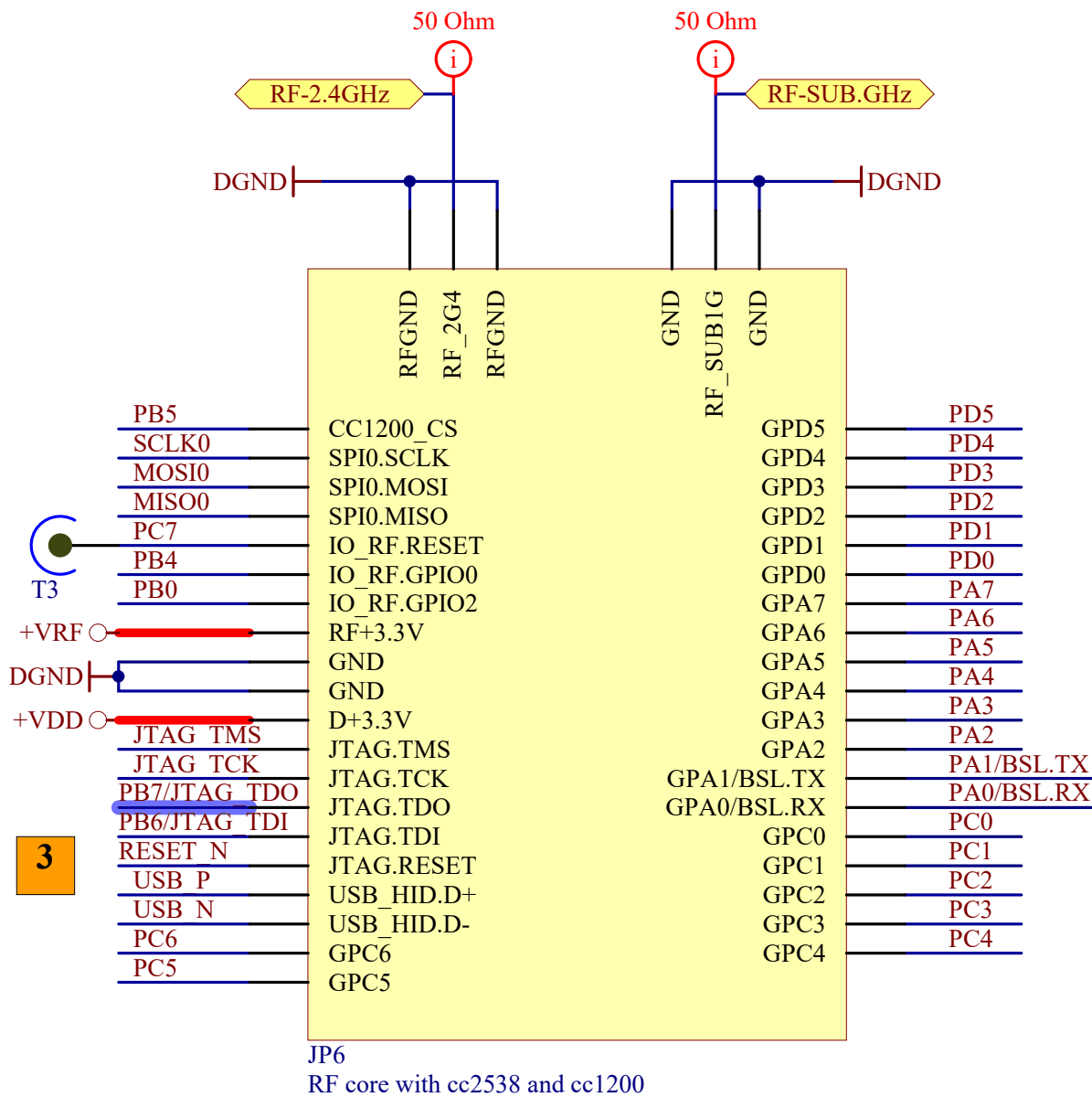
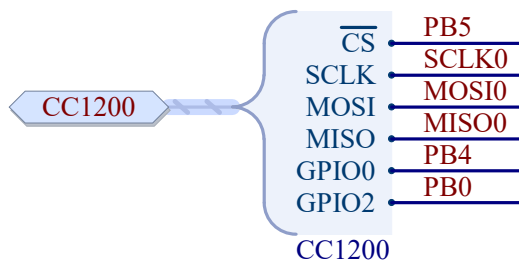
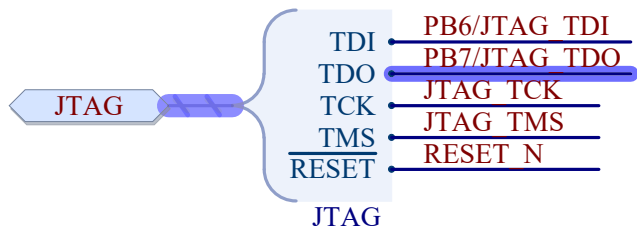
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A



B



C

1. External pull up resistor enables USB only as 2.0 protocol.

2. Jumper to mesure SOC consumption

3. If WDT is mounted, are necessary remove mosfet to control RED led
1. DVDD_USB voltage limit is 3.3v

2. Low-Pass Filter

3. internal Pull-up resistor is placed in zoul for reset pin.
1. Place capacitors close to Core

2. Pin 4 (NC) better connect to GND to avoid noise , because cap can go more closer

3. Place jumper closer to R9

Project Name	Breakout ZOL-BO001	Sheet	5
Title	Zoul	Version	A1
Author	Toni Lozano	Date	24/05/2016
Comments			

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