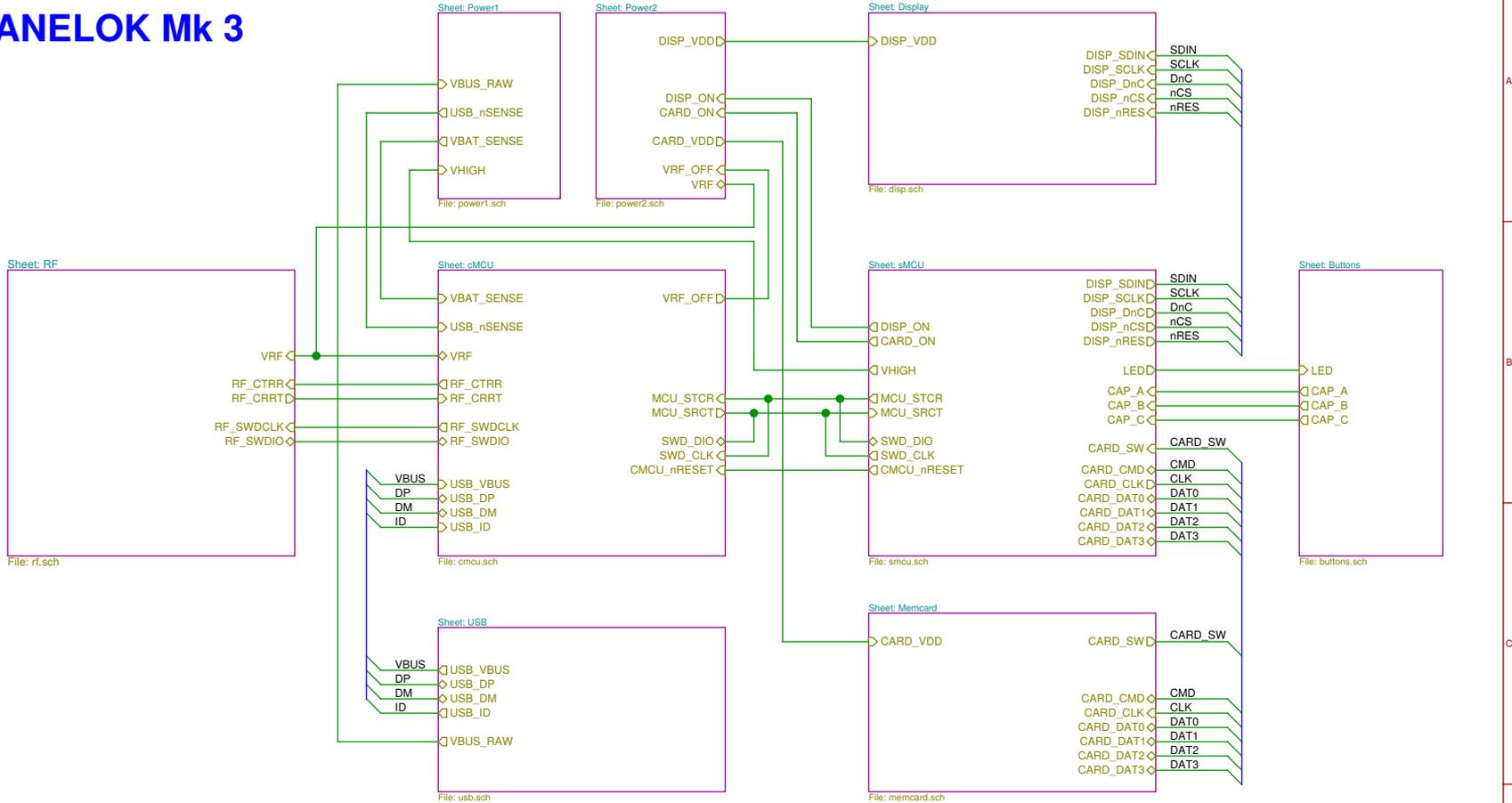


ANELOK Mk 3



Resistor selection

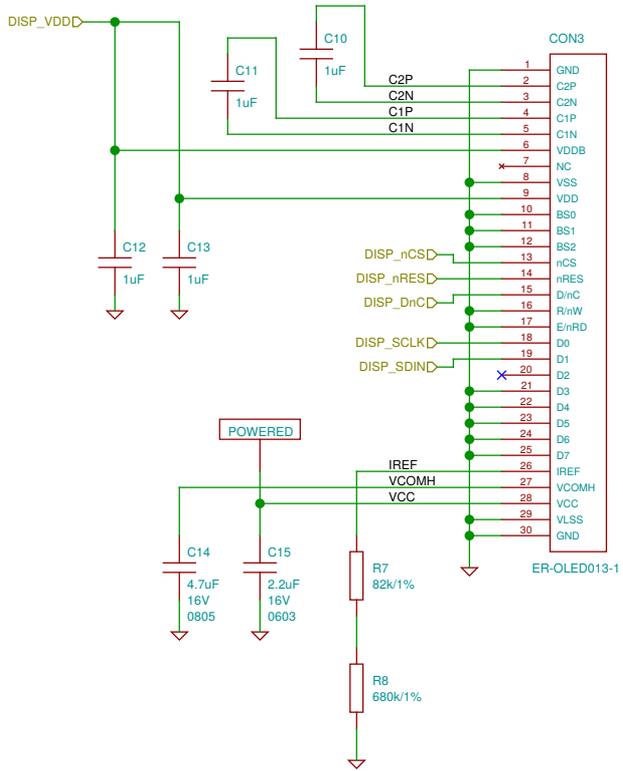
Unless indicated otherwise, all resistors should have a tolerance of 1% or better, and a power rating of at least 1/16 W.

Capacitor selection

Unless indicated otherwise, all capacitors should be X5R or X6S, or better (X7R, NP0, etc.)
 Y5V is cheaper but very sensitive to temperature, ages rapidly, etc.
 If no voltage is specified, use >= 6.3 V

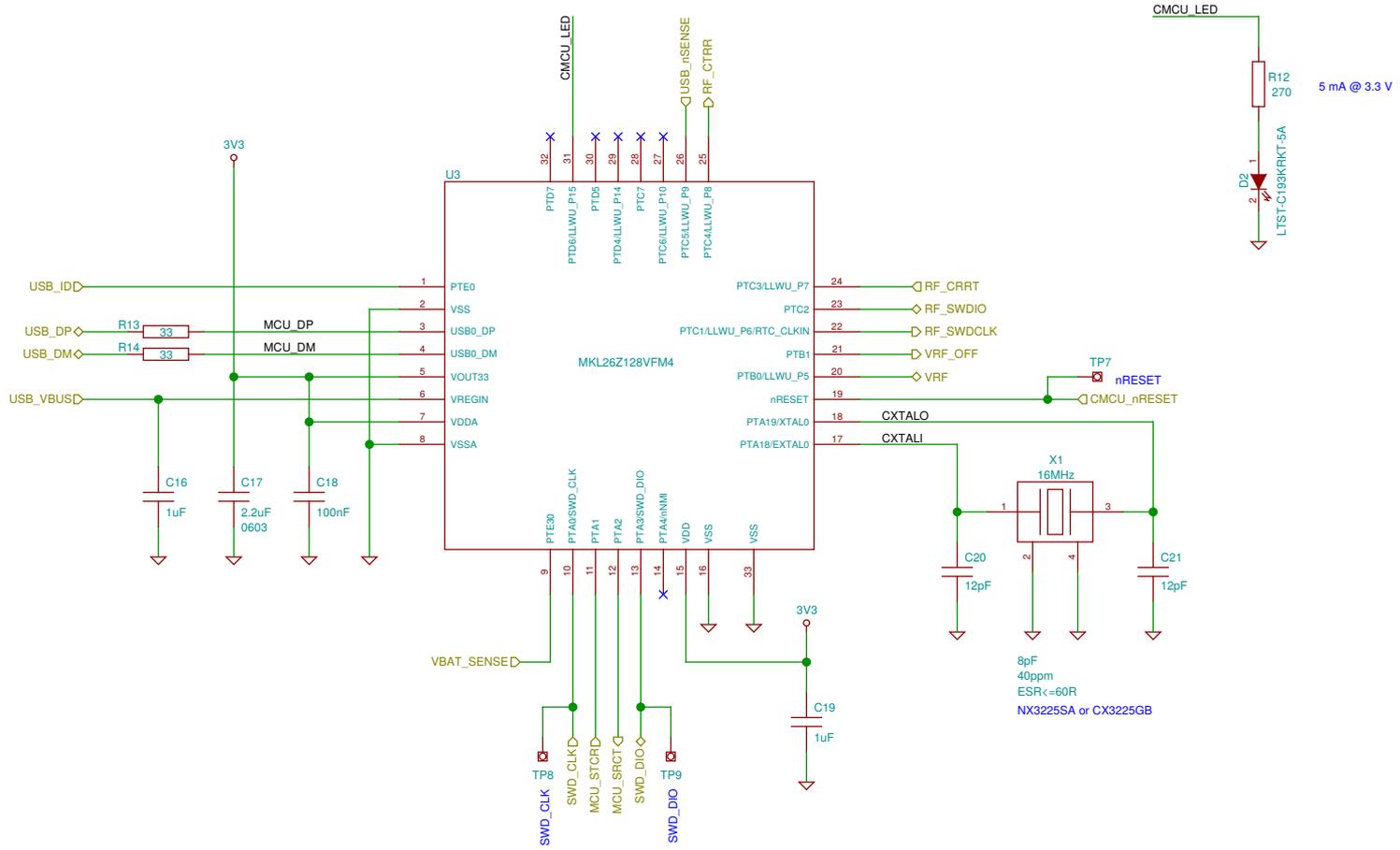
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File: anelok.sch		
Title: Anelok Password Safe		
Size: A4	Date: 2016-02-05	Rev:
Plotted by eeshow 016250a 20170505-01:10Z		Id: 1/10

Display



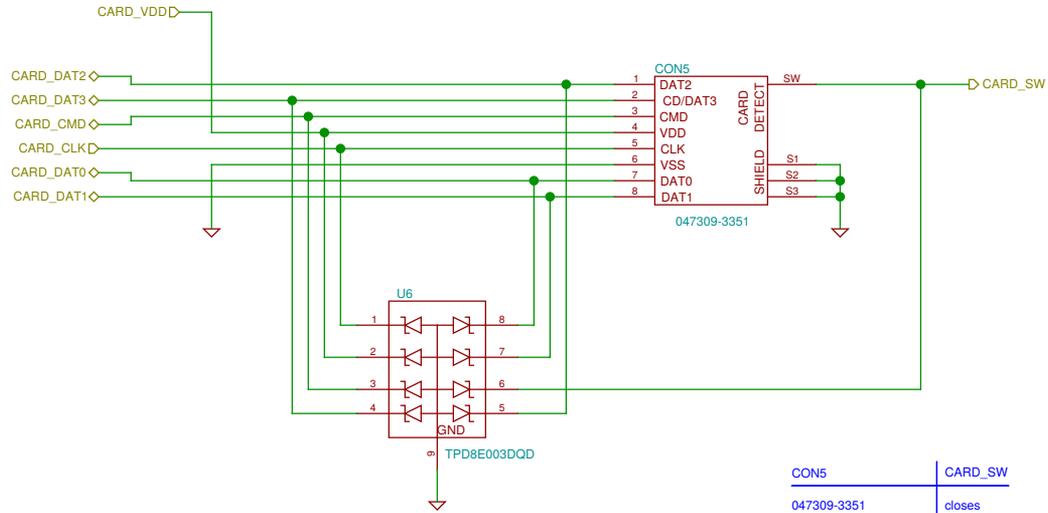
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Communications MCU



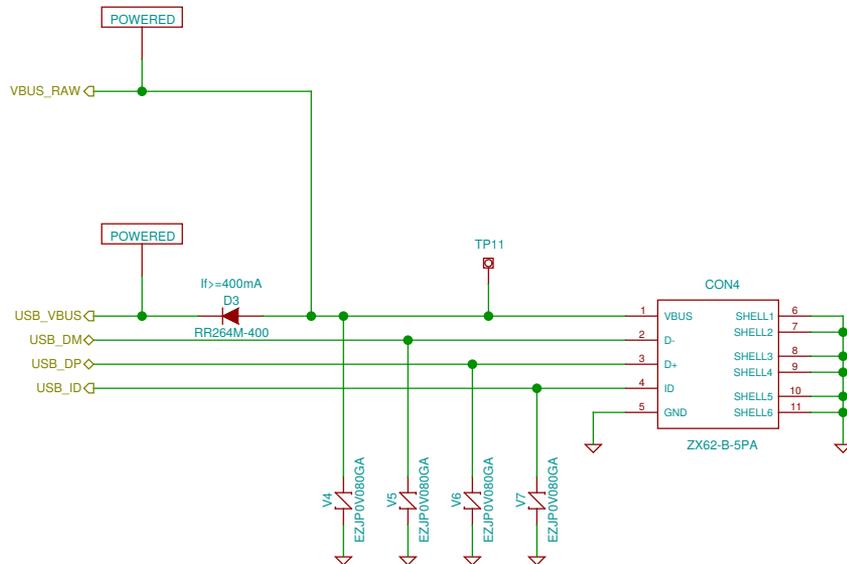
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Plotted by eeshow 016250a 20170505-01:10Z		Id: 3/10

Memory card



Werner Almesberger		
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Title: Memcard		
Size: A4	Date: 2016-02-05	Rev:
Plotted by eeshow 016250a 20170505-01:10Z		Id: 4/10

USB



Werner Almesberger

Sheet: /USB/

File: usb.sch

Title: USB

Size: A4

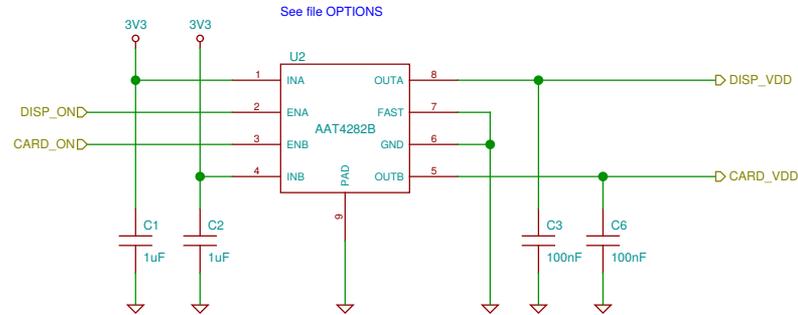
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Rev:

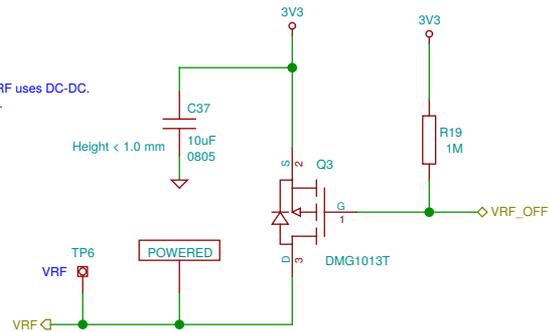
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Id: 5/10

Power 2



Place C37 only if RF uses DC-DC.
See file OPTIONS.



Werner Almesberger

Sheet: /Power2/

File: power2.sch

Title: Power2

Size: A4

Date: 2016-02-05

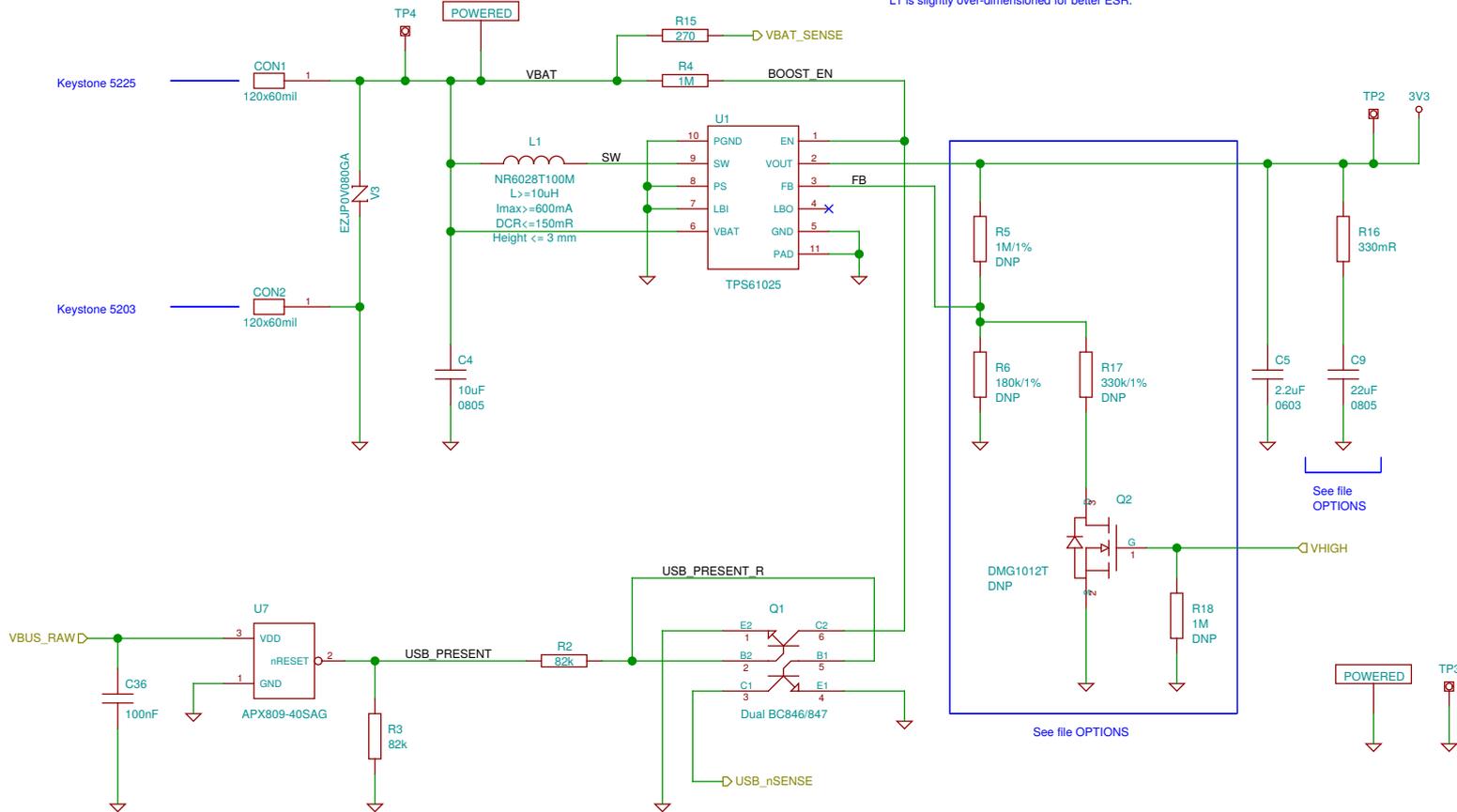
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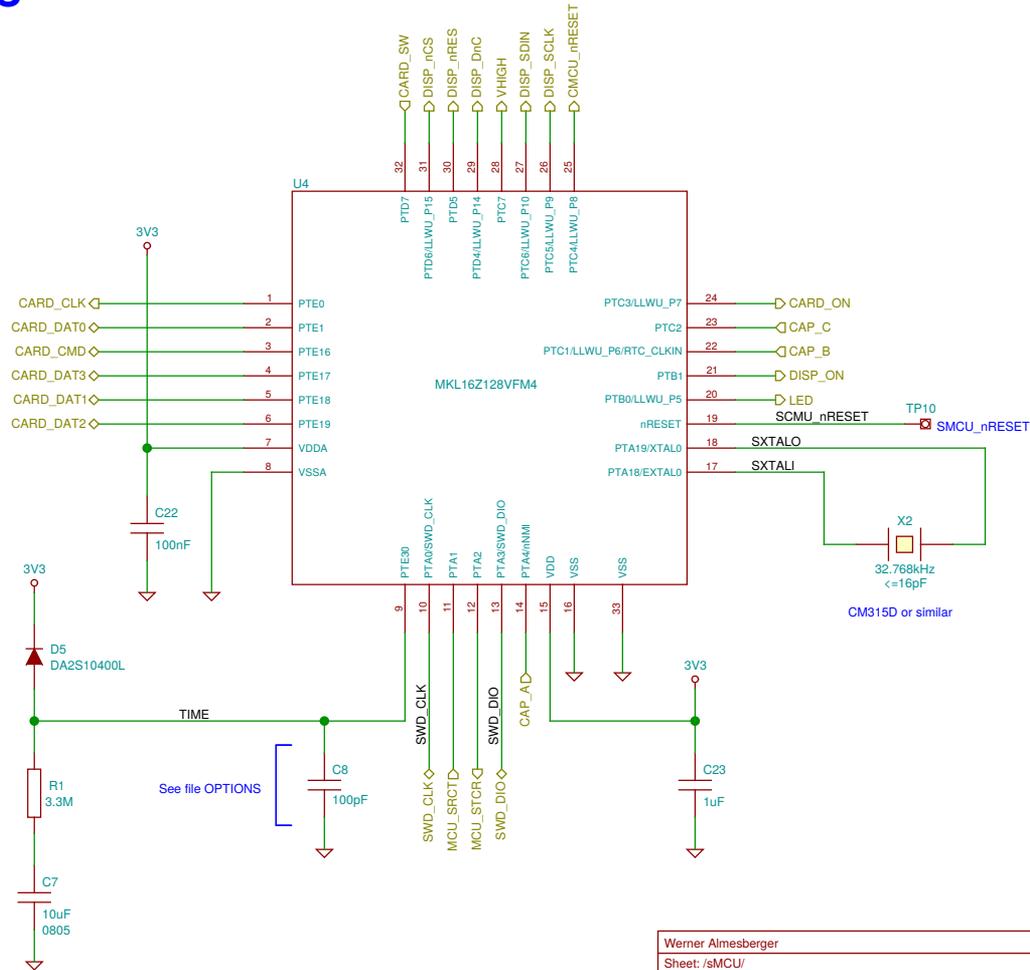
Power 1

Design for continuous output current of 120 mA.
L1 is slightly over-dimensioned for better ESR.



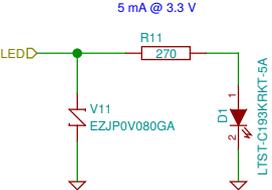
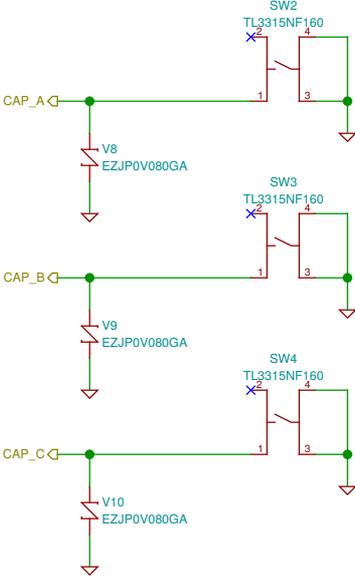
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Plotted by eeshow 016250a 20170505-01:10Z		Id: 7/10

Secure MCU



Werner Almesberger		
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Size: A4	Date: 2016-02-05	Rev:
Plotted by eeshow 016250a 20170505-01:10Z		Id: 8/10

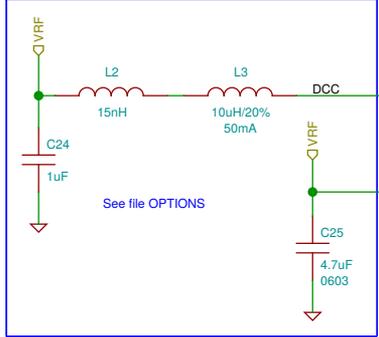
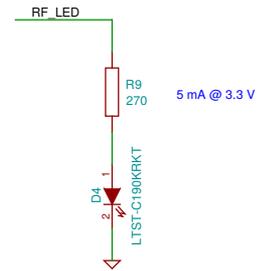
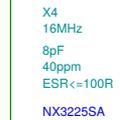
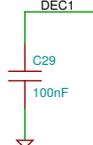
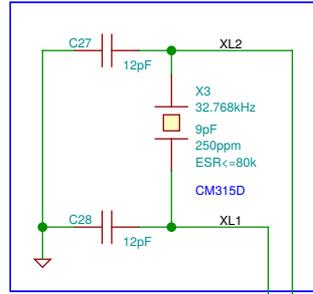
Buttons



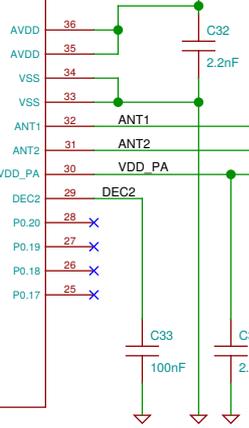
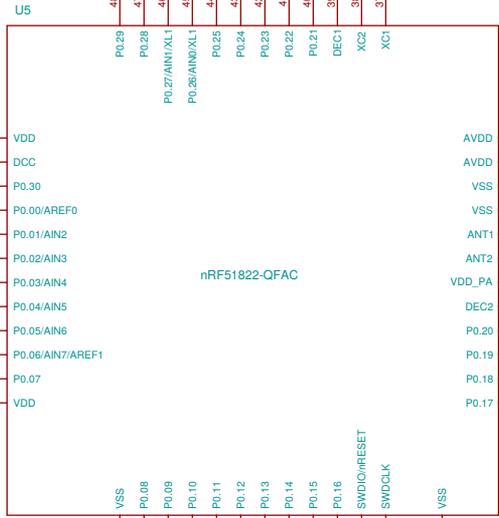
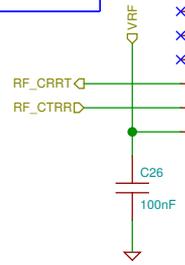
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RF

See file OPTIONS



See file OPTIONS

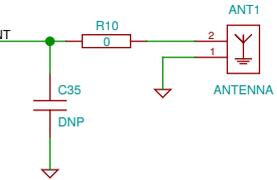
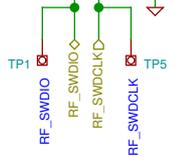


Reference design has 1nF for C32.



See file OPTIONS

Reference design has 47nF for C33.



Werner Almesberger		
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File: rf.sch		
Title: RF		
Size: A4	Date: 2016-02-05	Rev:
Plotted by eeshow 016250a 20170505-01:10Z		Id: 10/10