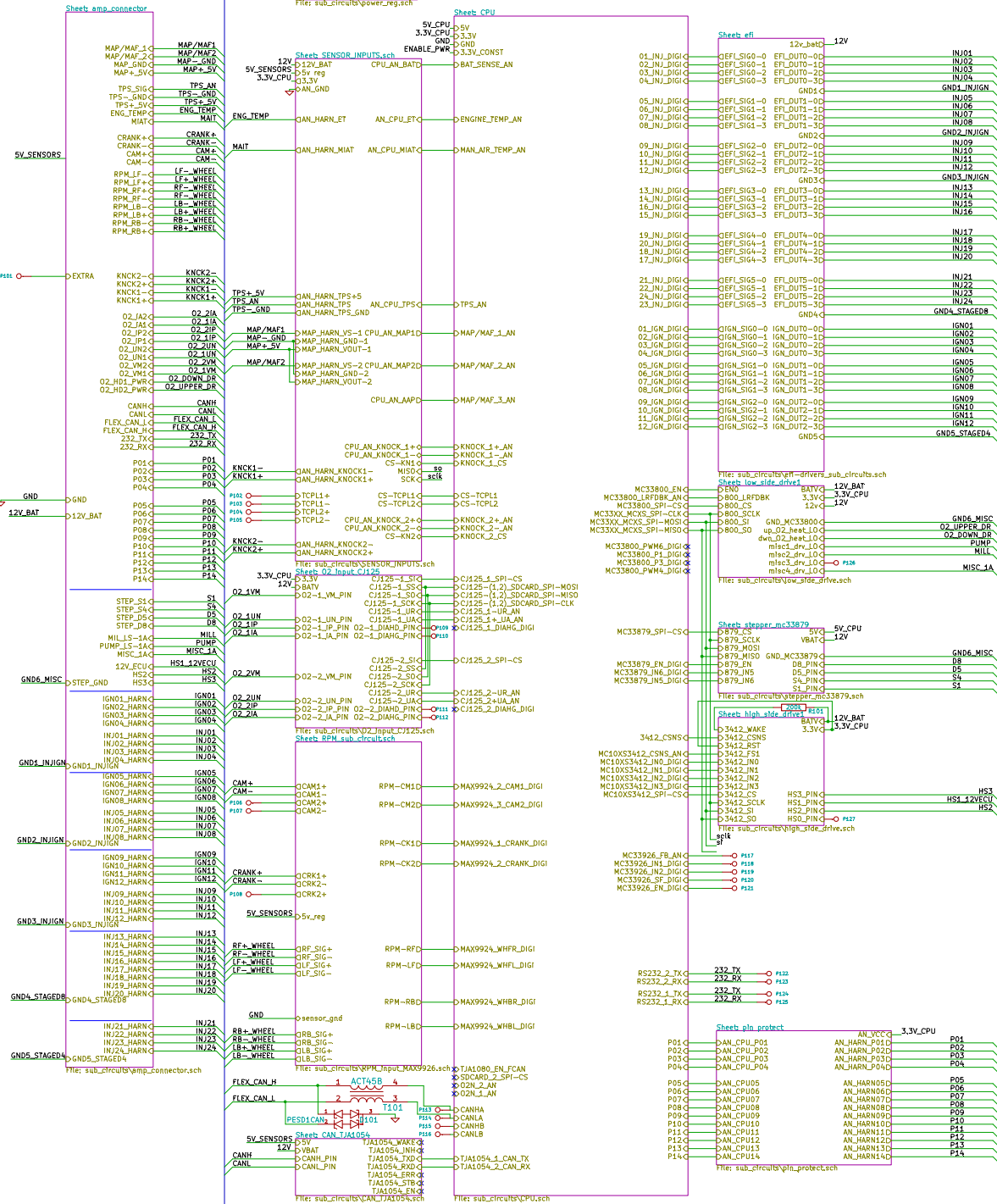
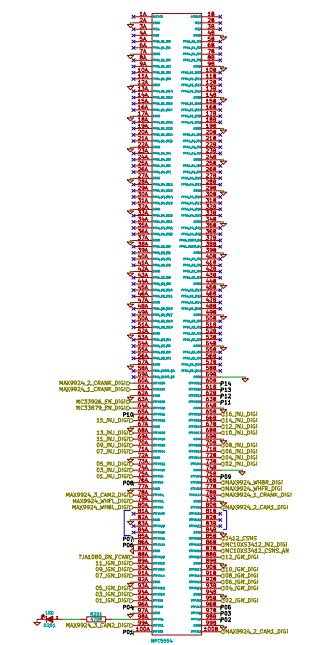
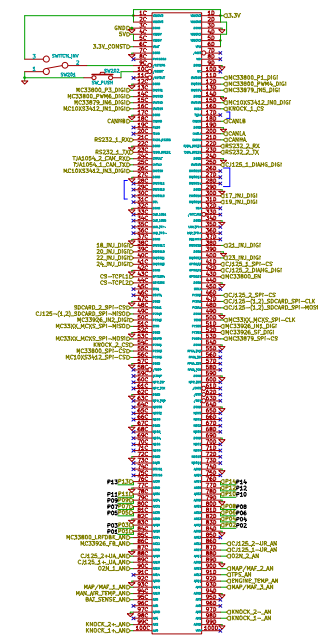
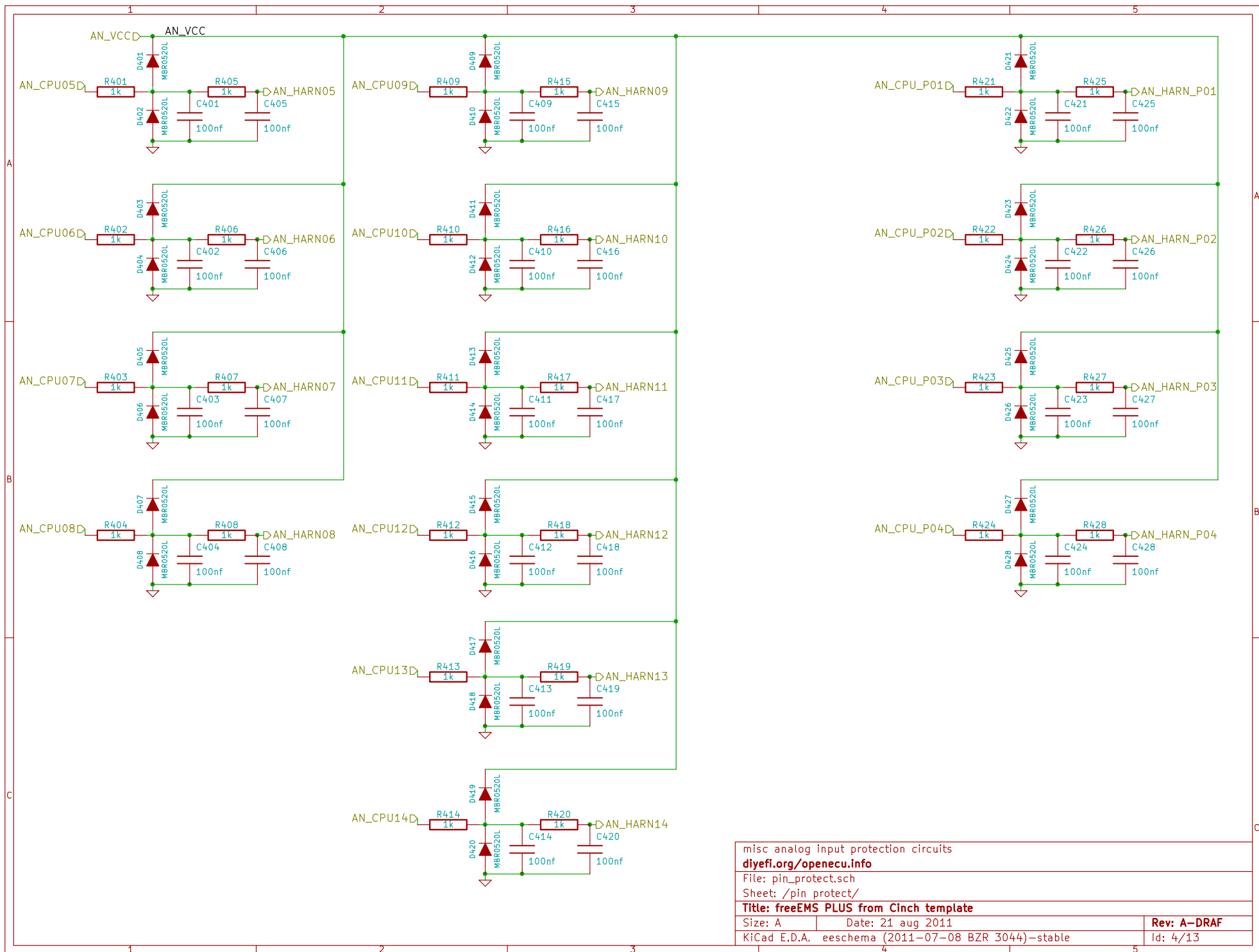


NOTES TO REMEMBER
PERHAPS INSTALL USB FROM PUMA









misc analog input protection circuits

diyefi.org/openecu.info

File: pin_protect.sch

Sheet: /pin_protect/

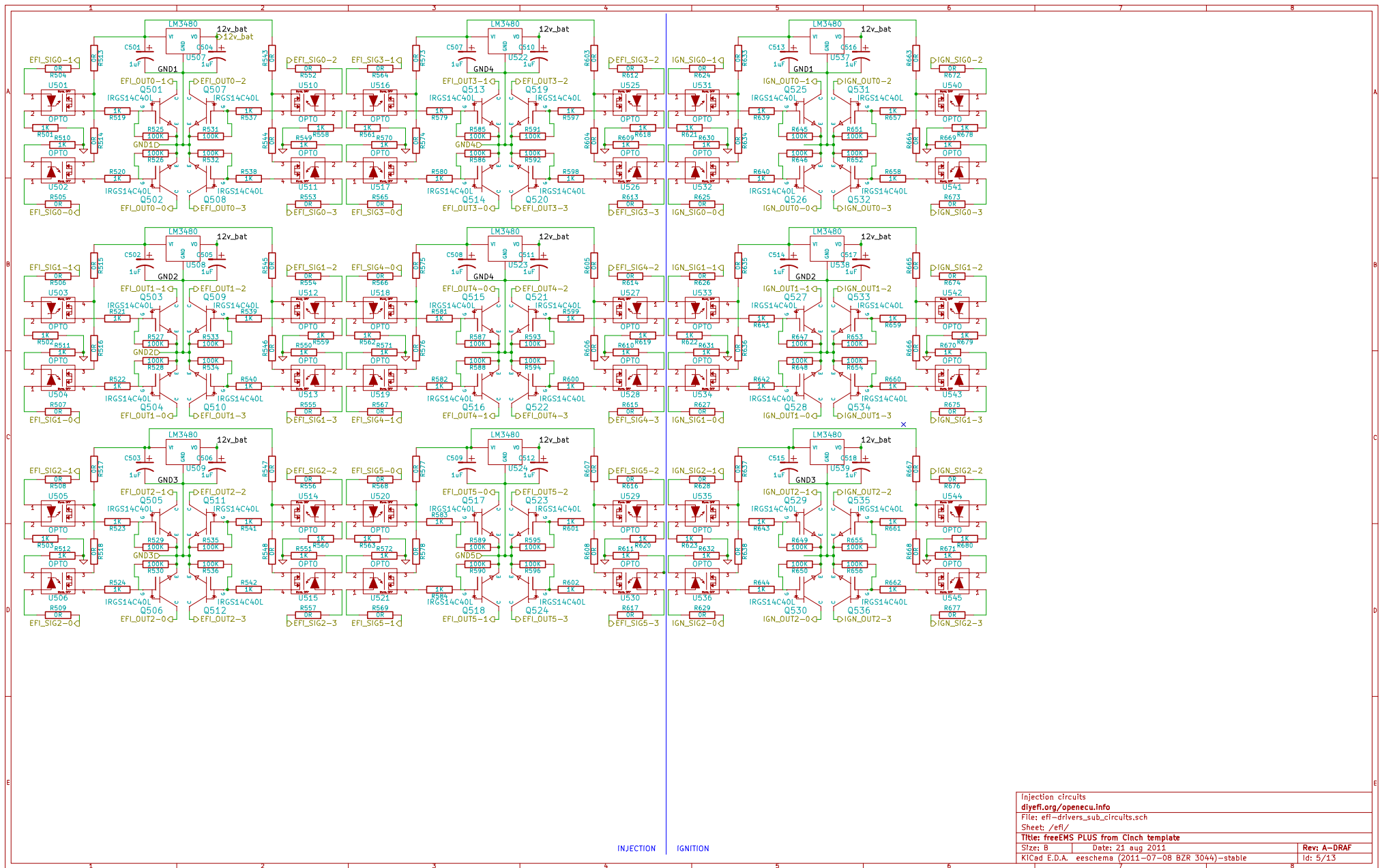
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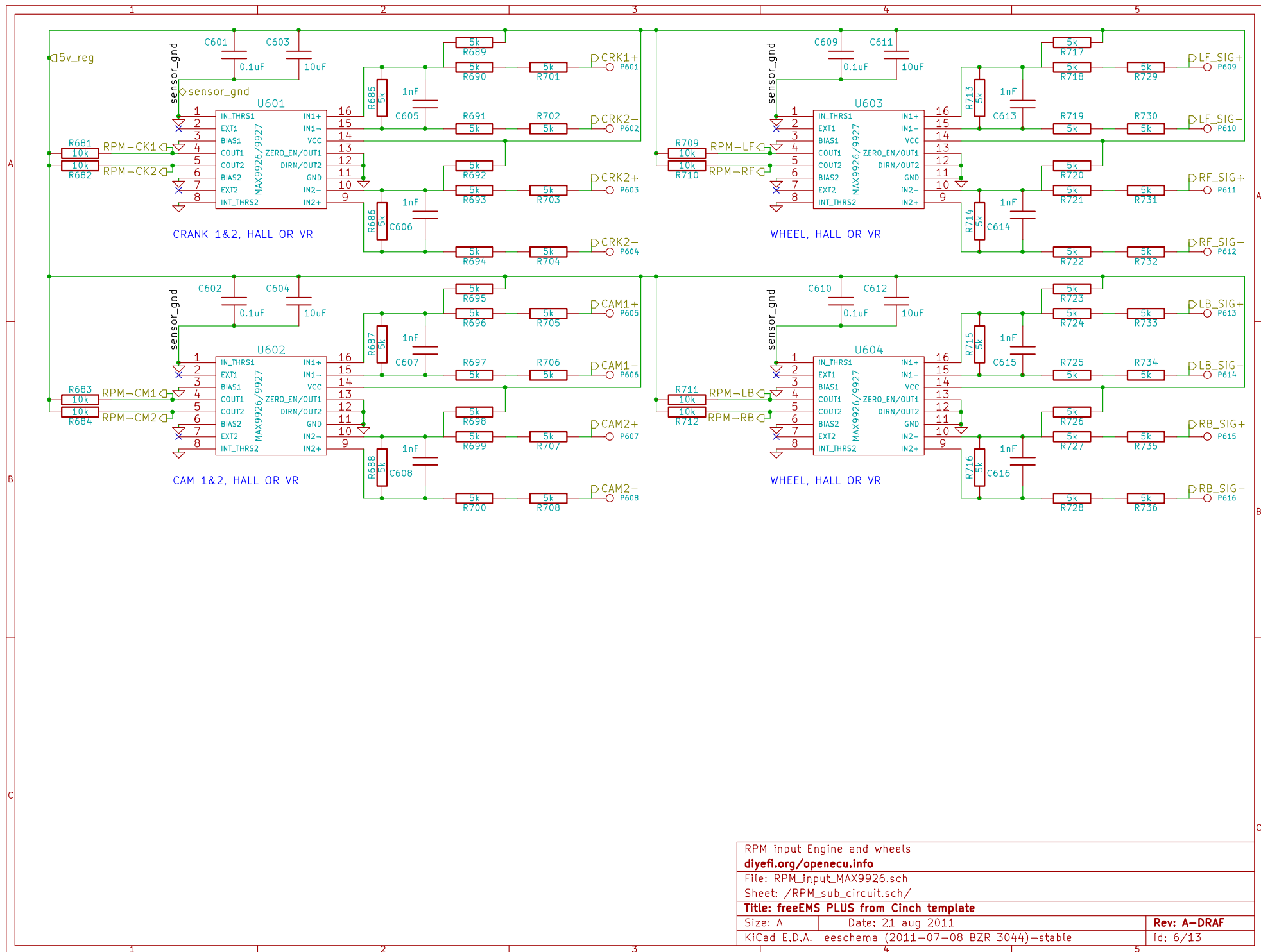
Size: A Date: 21 aug 2011

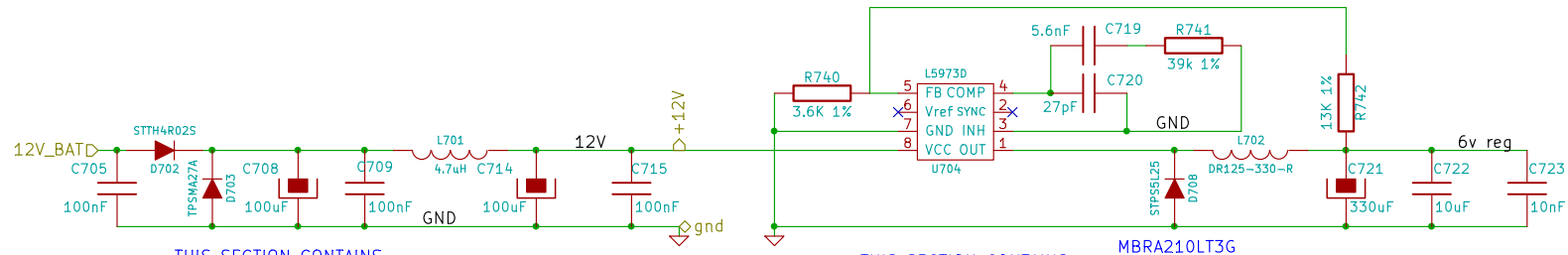
KiCad E.D.A. eeschema (2011-07-08 BZR 3044)-stable

Rev: A-DRAF

Id: 4/13





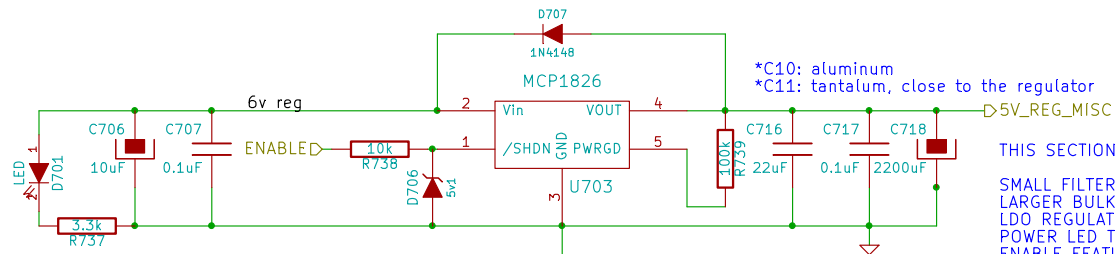


THIS SECTION CONTAINS

FILTER/BULK CAPS
REVERSE POLARITY PROTECTION DIODE
REVERSE POLARITY SPIKE PROTECTION
TRANSIENT INDUCTOR

THIS SECTION CONTAINS

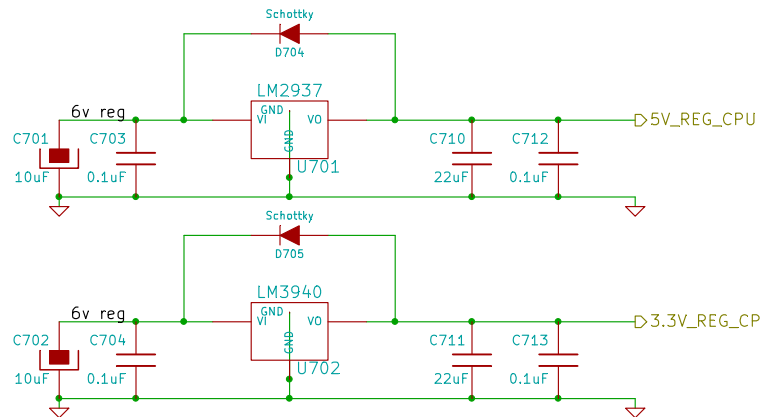
A 2 AMP SWITCHING 6V REGULATOR. THIS PREVENTS THE LINEARS FROM HEATING UP IN EXCESS.



MCP regulator pin compatible with:
LP3852 or MIC29150 (26v--input capable)

THIS SECTION CONTAINS

SMALL FILTERING CAPS TO PREVENT OSSILATION
LARGER BULK CAPS TO HANDLE THE BULK NEEDS
LDO REGULATOR TO GENERATE A 1 AMP ACCURATE 5V SOURCE GOOD FOR MISC NEEDS
POWER LED TO INDICATE IT'S POWRED
ENABLE FEATURE TO ALLOW MCU TO TURN THINGS OFF.
REVERSE POLARITY DIODE PROTECTING THE MCP1826



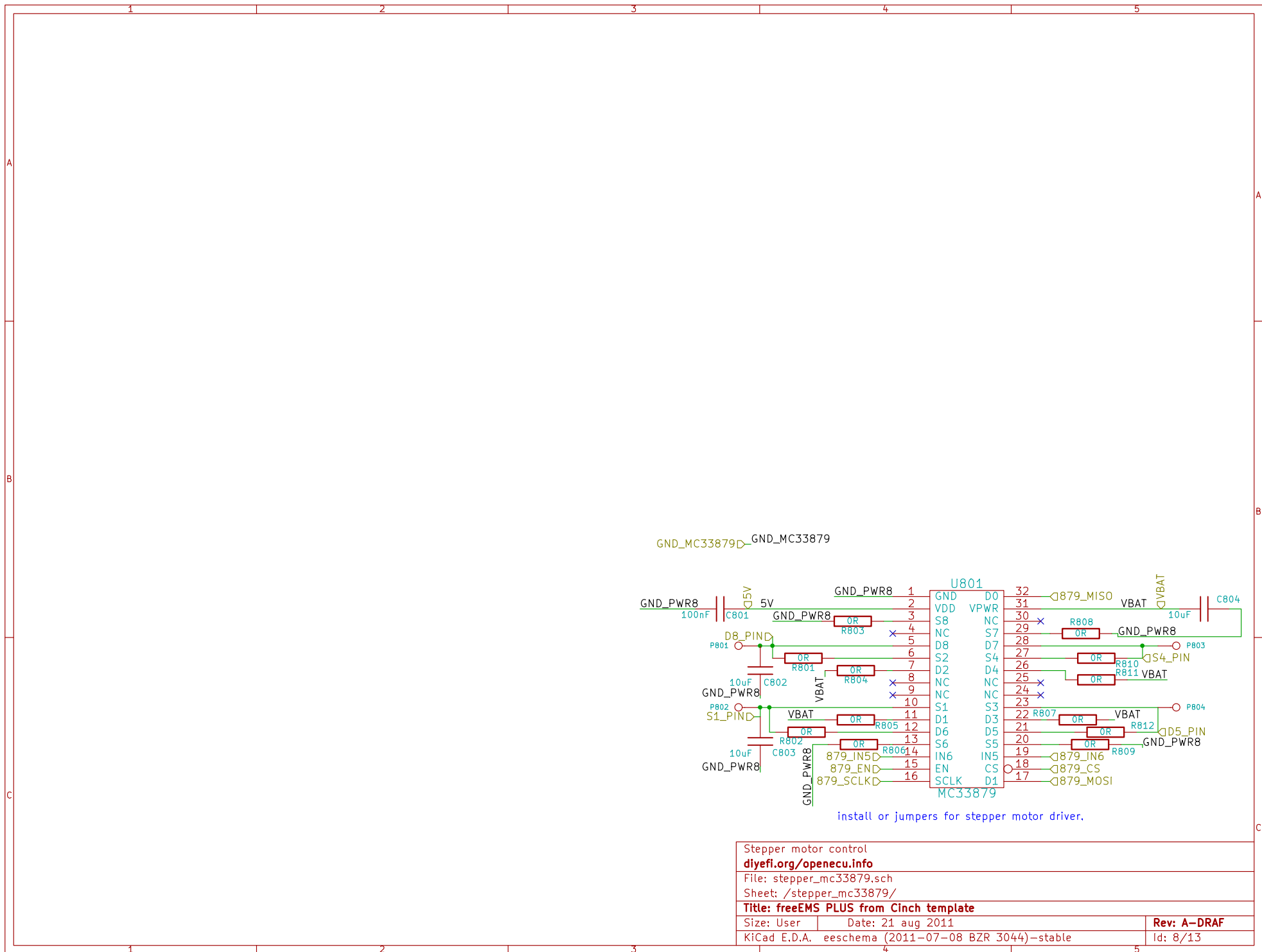
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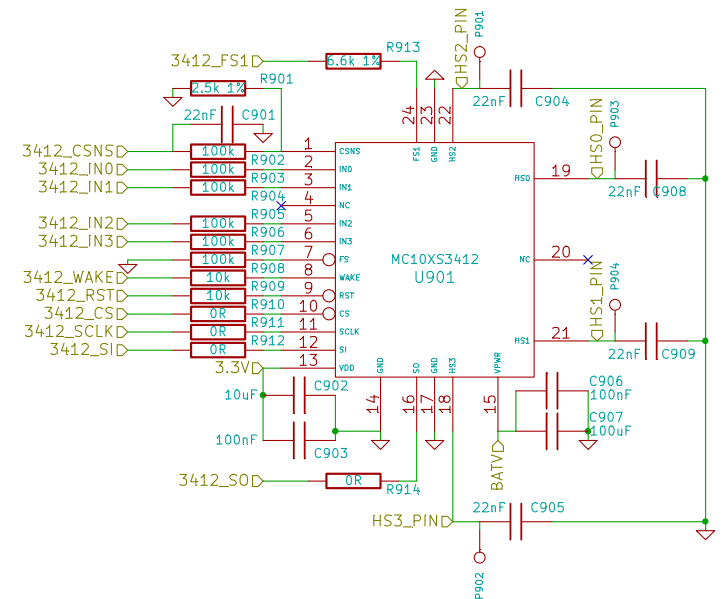
SMALL FILTERING CAPS TO PREVENT OSSILATION
LARGER BULK CAPS TO HANDLE THE BULK NEEDS
LDO REGULATOR TO GENERATE A 1 AMP 5V PERCISSION LOW RIPPLE SOURCE

THIS SECTION CONTAINS

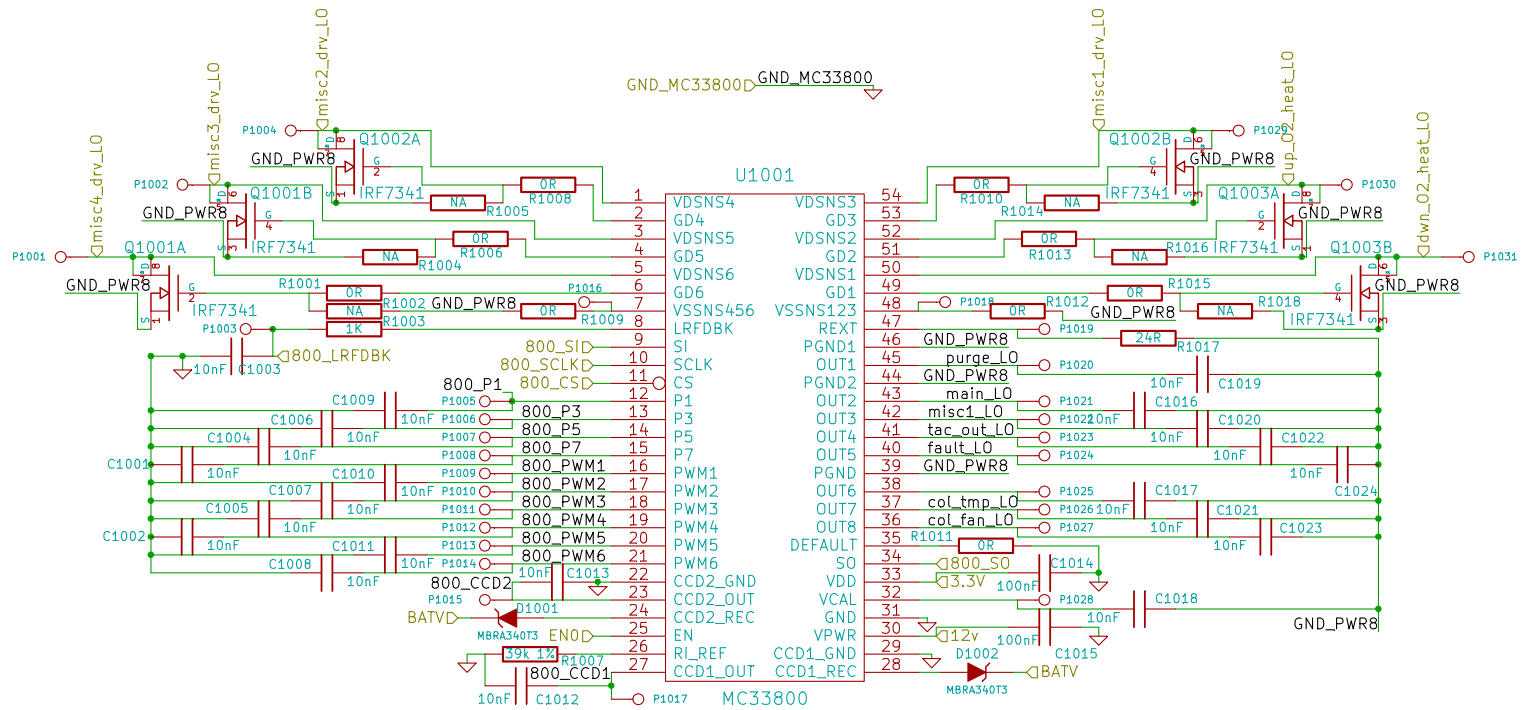
SMALL FILTERING CAPS TO PREVENT OSSILATION
LARGER BULK CAPS TO HANDLE THE BULK NEEDS
LDO REGULATOR TO GENERATE A 1 AMP 3.3V PERCISSION LOW RIPPLE SOURCE

| | | |
|--|-------------------|-------------|
| power regulator | | |
| diyefi.org/openecu.info | | |
| File: power_reg.sch | | |
| Sheet: /power regulator constant/ | | |
| Title: freeEMS PLUS from Cinch template | | |
| Size: A | Date: 21 aug 2011 | Rev: A-DRAF |
| KiCad E.D.A. eeschema (2011-07-08 BZR 3044)-stable | | Id: 7/13 |





| | |
|--|-------------------|
| High side drive circuits | |
| diyefi.org/openecu.info | |
| File: high_side_drive.sch | |
| Sheet: /high_side_drive1/ | |
| Title: freeEMS PLUS from Cinch template | |
| Size: A4 | Date: 21 aug 2011 |
| KiCad E.D.A. eeschema (2011-07-08 BZR 3044)-stable | Rev: A-DRAF |
| | Id: 9/13 |



misc high side and low side drives

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File: low_side_drive.sch

Sheet: /low_side_drive1/

Title: freeEMS PLUS from Cinch template

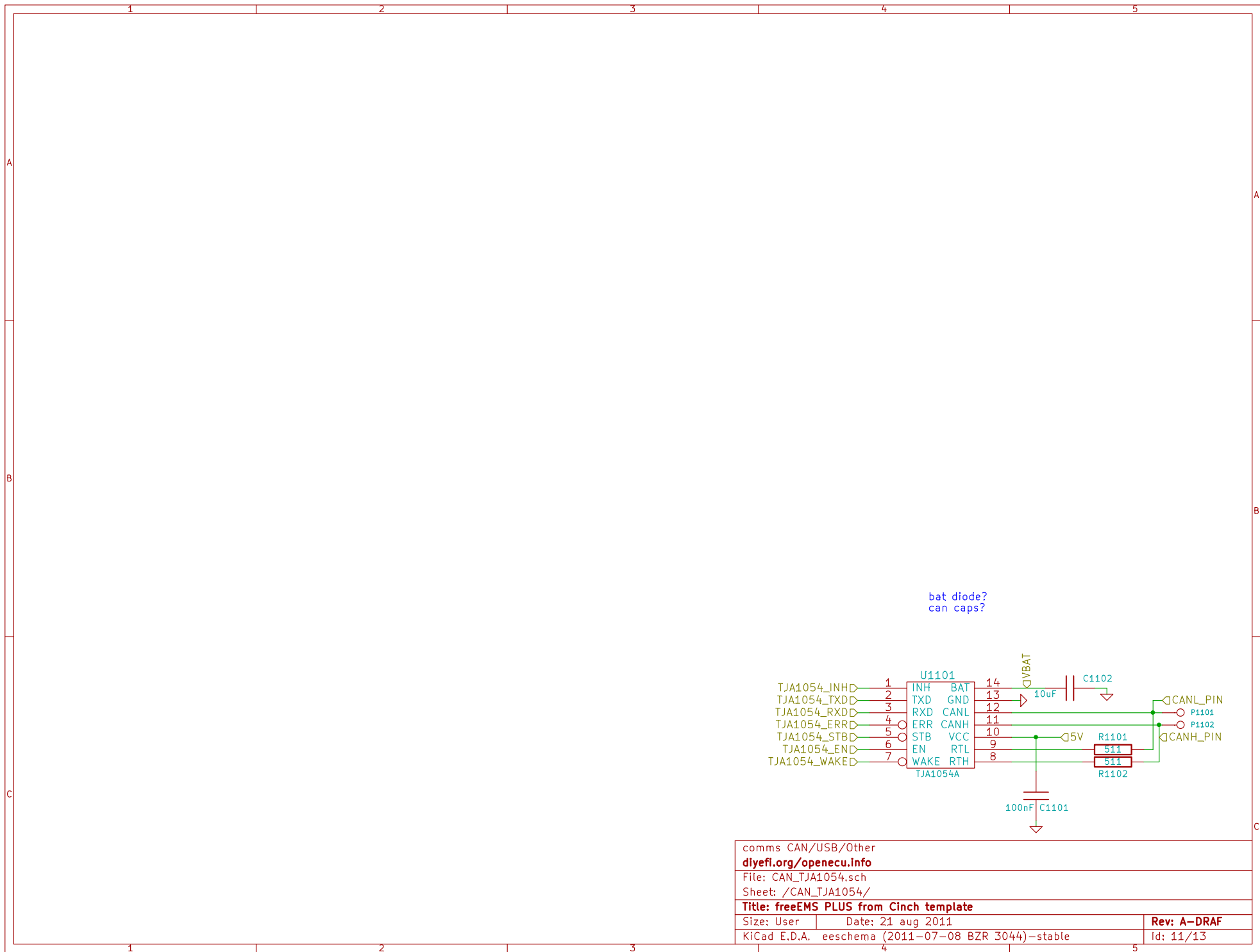
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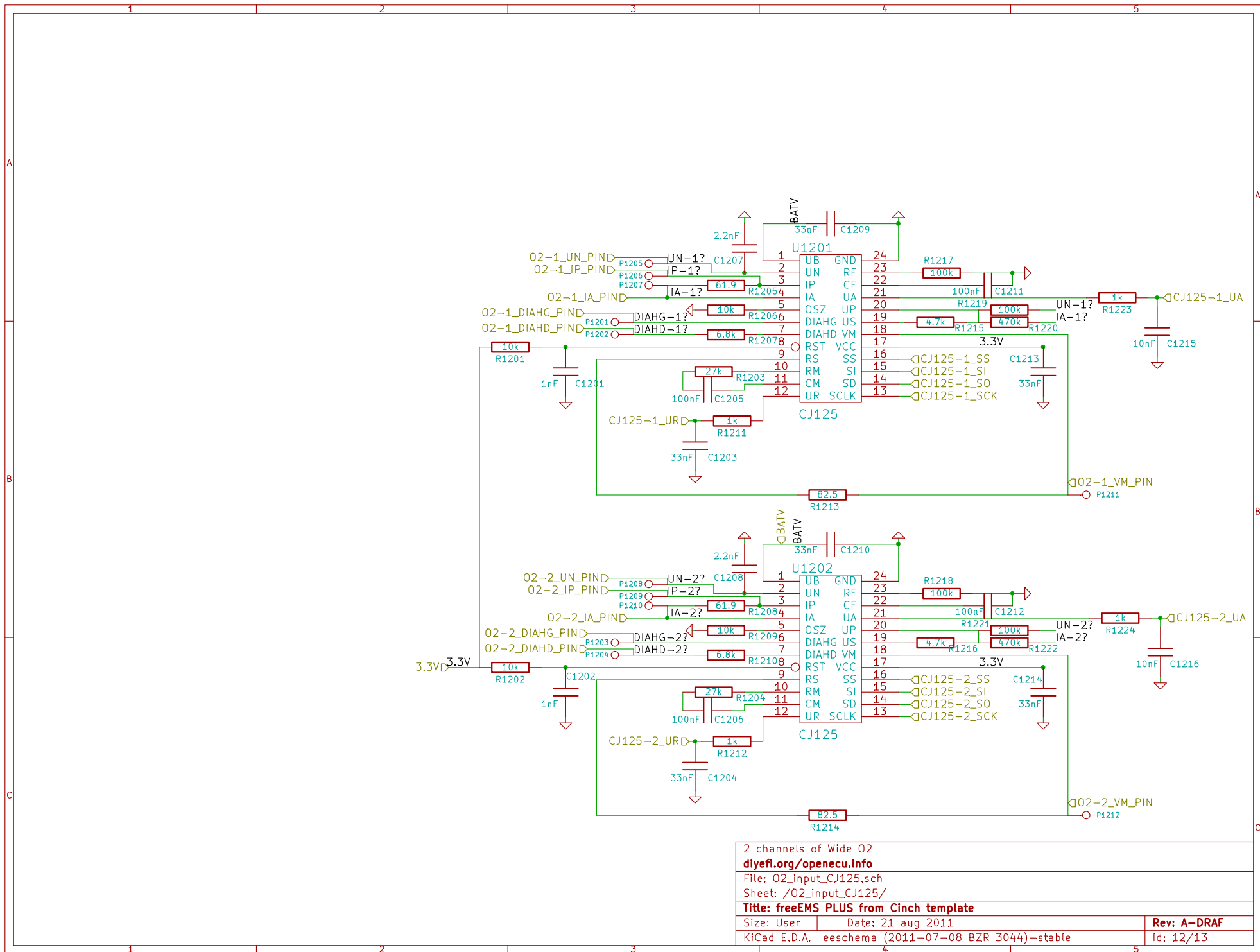
Date: 21 aug 2011

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Id: 10/13





2 channels of Wide O2

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File: O2_input_CJ125.sch

Sheet: /O2_input_CJ125/

Title: freeEMS PLUS from Cinch template

Size: User Date: 21 aug 2011

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Rev: A-DRAF

Id: 12/13

