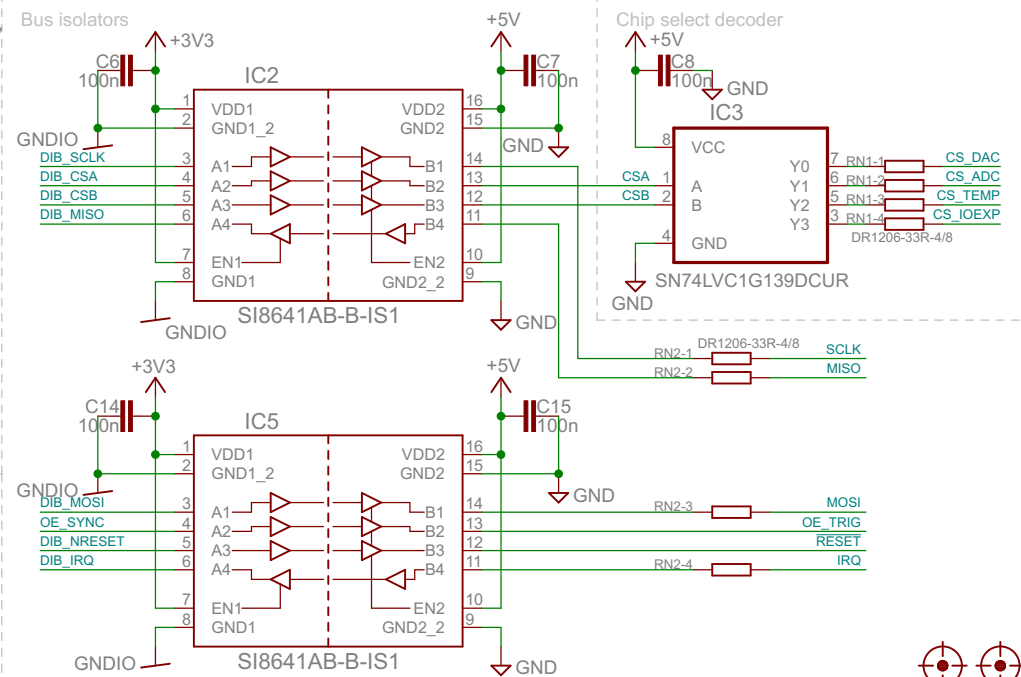


26-pin module socket

+3V3 1		2	+Vaux
NFAULT 3		4	NRESET
DIB_SCL 5		6	OE_SYNC
Gnd 7		8	DIB_SDA
DIB_CSA 9		10	DIB_IRQ
Gnd 11		12	DIB_CSB
DIB_SCLK 13		14	DIB_MISO
DIB_MOSI 15		16	Gnd
DIB_A0 17		18	DIB_A2
DIB_A1 19		20	Gnd
+12V 21		22	+12V
+5V 23		24	+5V
Gnd 25		26	Gnd



Plastic parts

KK1
PCB-MB

KK2
PCB-MB

LDOs, I2C EEPROM, digital isolators, CS demux, Temp sensor

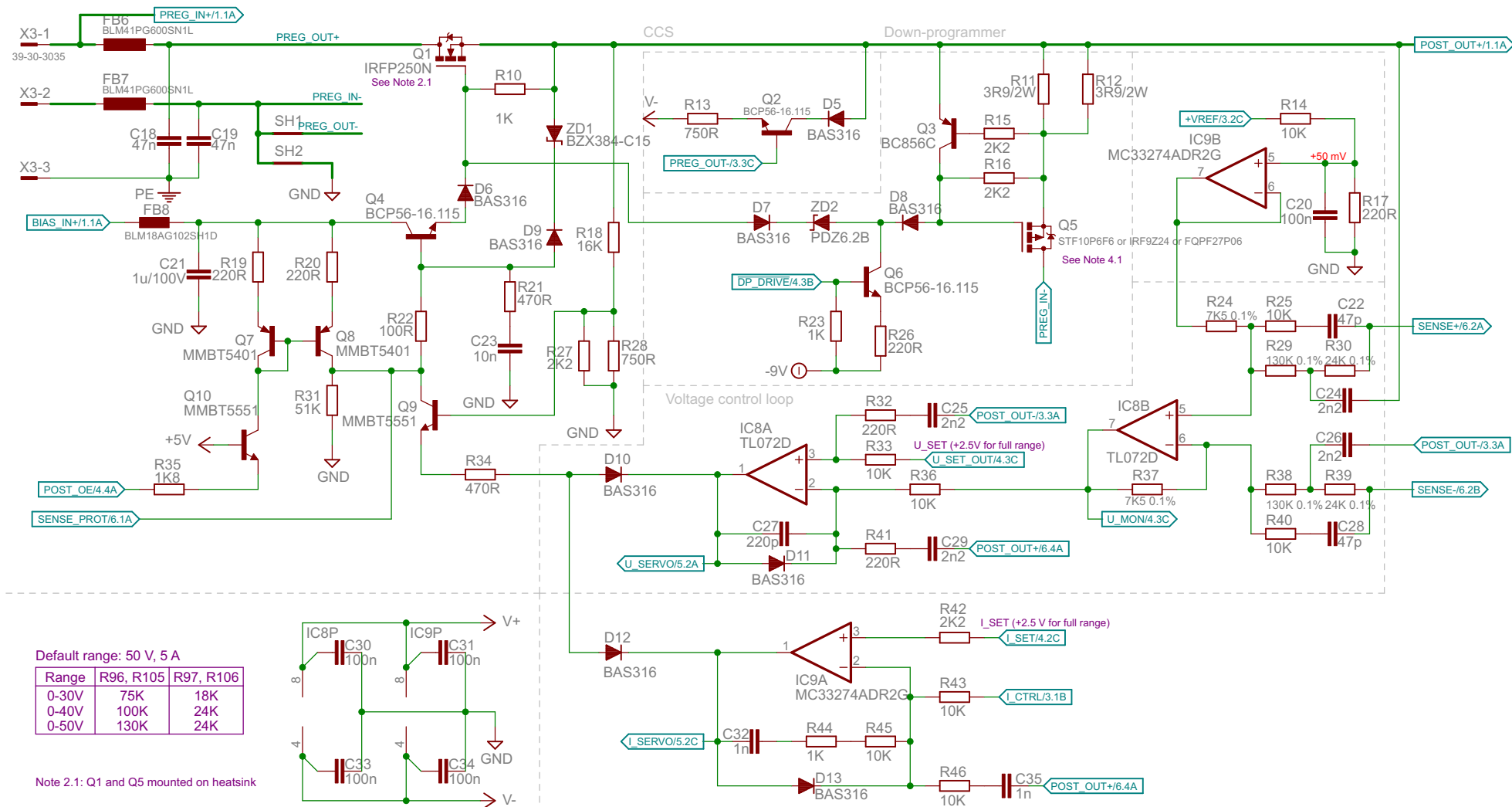
TITLE: EEZ DIB DCP505 r1B2

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CV/CC control loop, Output enable
Down-programmer

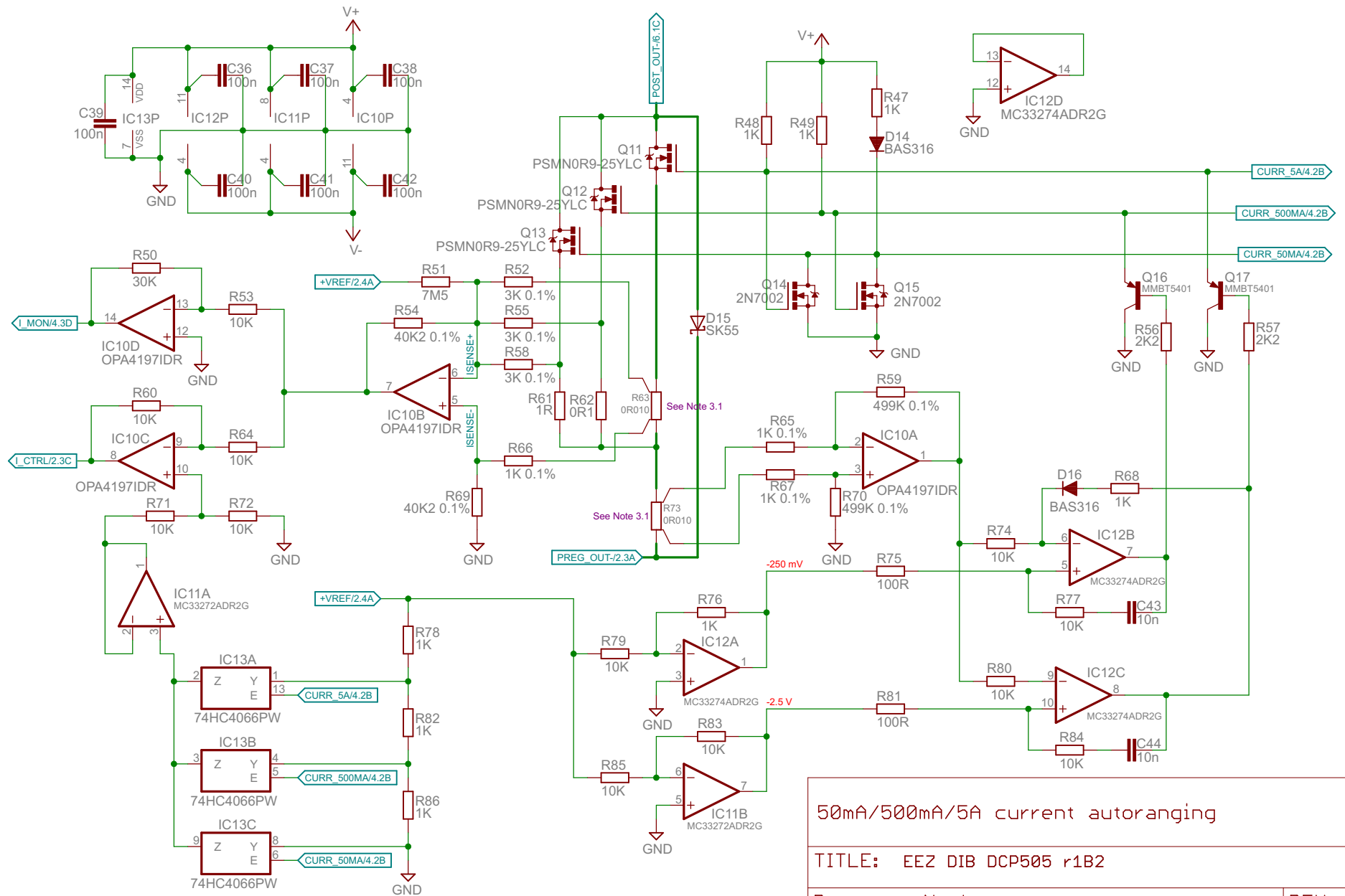
TITLE: EEZ DIB DCP505 r1B2

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50mA/500mA/5A current autoranging

TITLE: EEZ DIB DCP505 r1B2

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Note 3.1: Use power resistors with the lowest possible TCR (± 50 ppm/oC or better), e.g. CRA2512-FZ-R020ELF

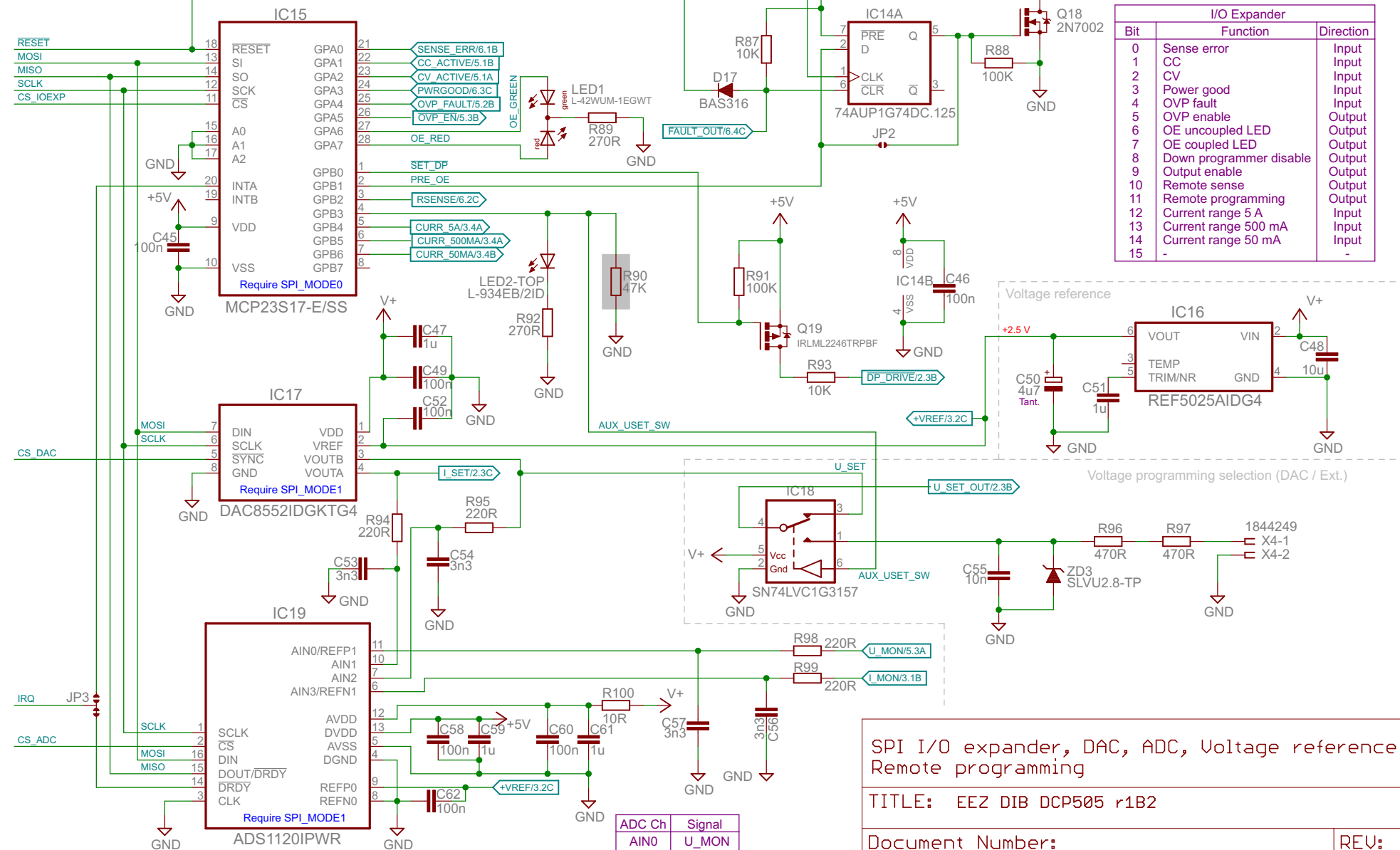
Licensed under the TAPR Open Hardware License (www.tapr.org/OHL)

More info at <http://www.envox.hr/eez>

Repository: <https://github.com/eez-open>

Digital control (SPI)

OE_TRIG



SPI I/O expander, DAC, ADC, Voltage reference
Remote programming

TITLE: EEZ DIB DCP505 r1B2

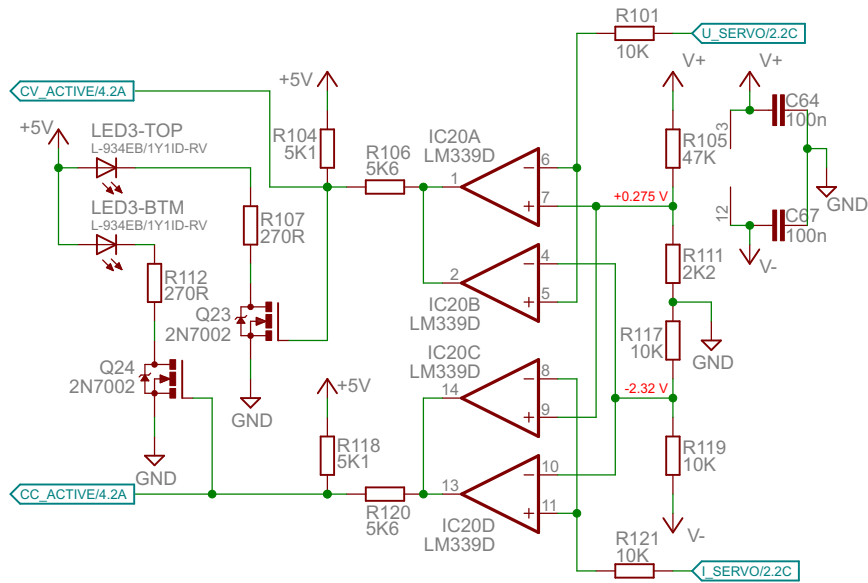
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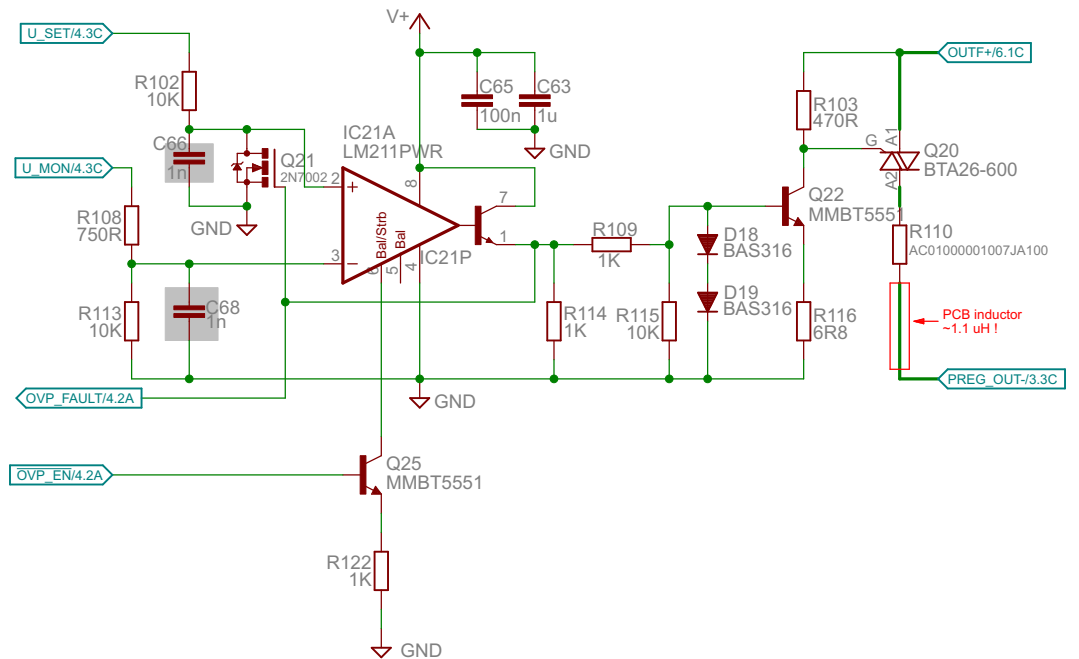
Date: 31.12.2018. 10:14

Sheet: 4/6

Constant Voltage (CV) and Constant Current (CC) mode detection and indication



Over-voltage protection (OVP)



CC/CV mode detection and indication, OVP

TITLE: EEZ DIB DCP505 r1B2

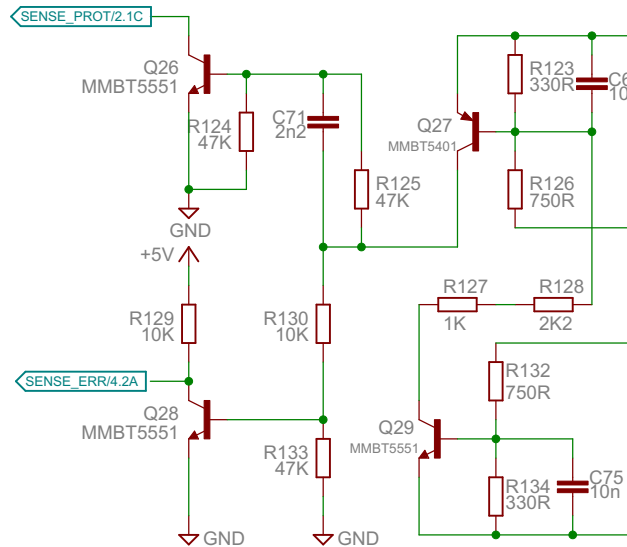
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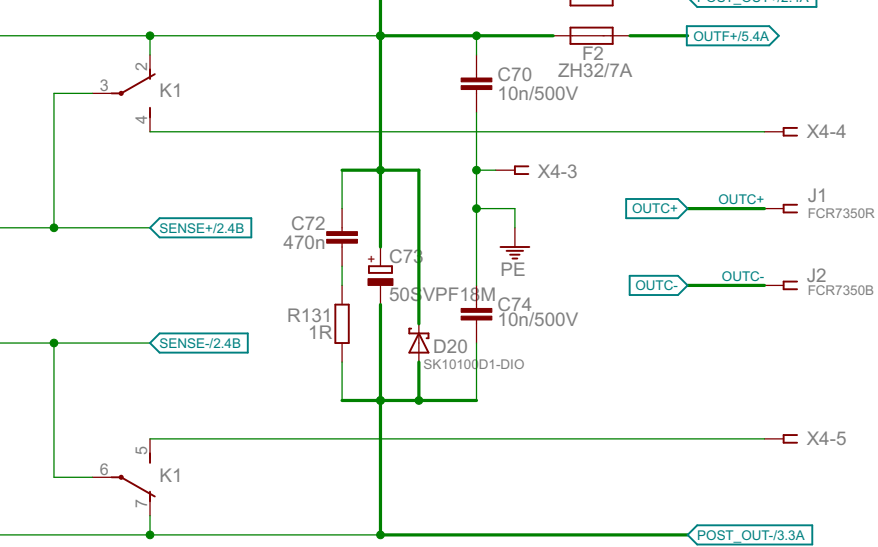
Date: 31.12.2018. 10:14

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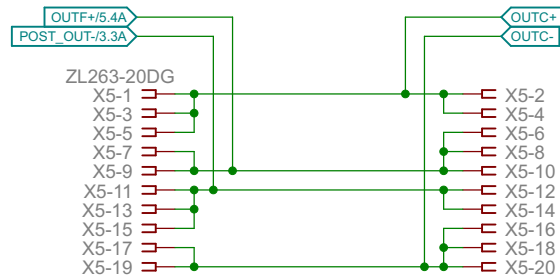
Remote sense reverse polarity detection



Power output section



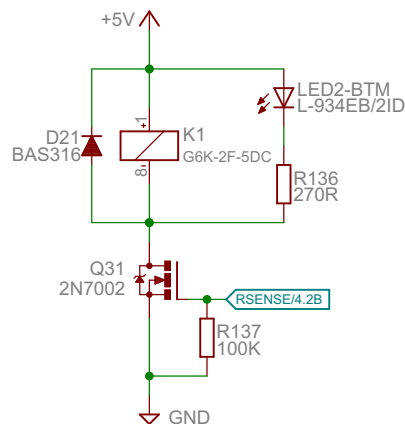
Output coupling connector (via Backplane PCB)



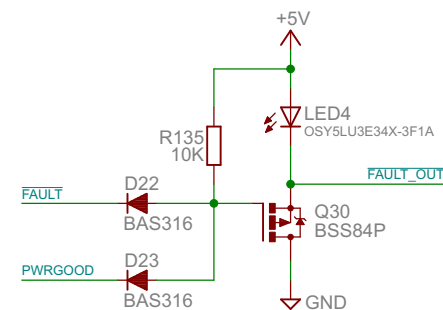
20-pin power socket

OUTC+ 1	2 OUTC+
OUTC+ 3	4 OUTC+
OUTC+ 5	6 POST_OUT+ (fused)
POST_OUT+ (fused) 7	8 POST_OUT+ (fused)
POST_OUT+ (fused) 9	10 POST_OUT+ (fused)
POST_OUT- 11	12 POST_OUT-
POST_OUT- 13	14 POST_OUT-
POST_OUT- 15	16 OUTC-
OUTC- 17	18 OUTC-
OUTC- 19	20 OUTC-

Remote sense selection



Fault indicator (optional)



Rsense polarity protection, Extra Cout switch
Output coupling, Rsense relay, Fault LED

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