

CV/CC control loop, Output enable
Down-programmer

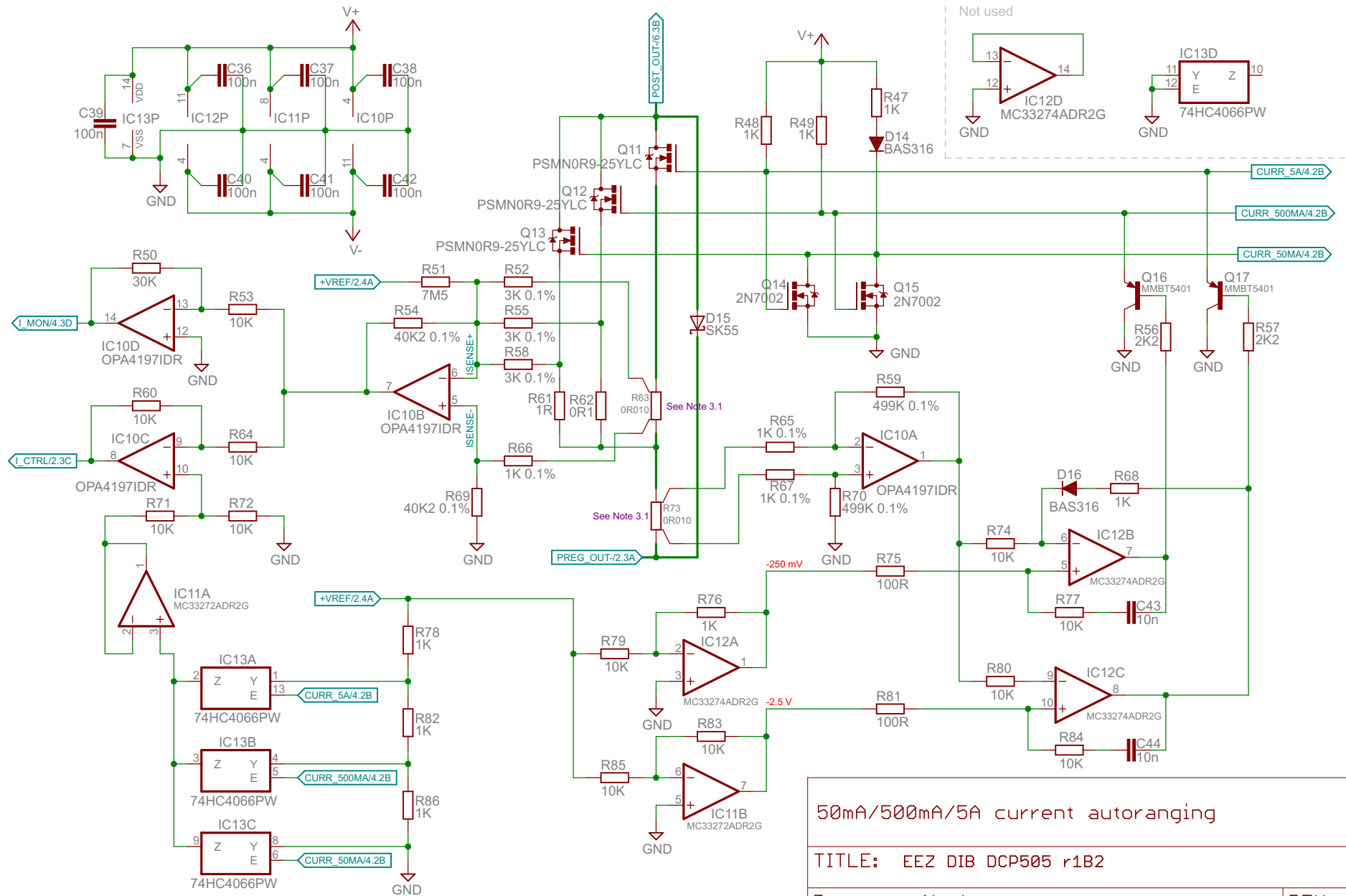
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Note 3.1: Use power resistors with the lowest possible TCR (± 50 ppm/oC or better), e.g. CRA2512-FZ-R020ELF

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 More info at <http://www.envox.hr/eez>
 Repository: <https://github.com/eez-open>

50mA/500mA/5A current autoranging

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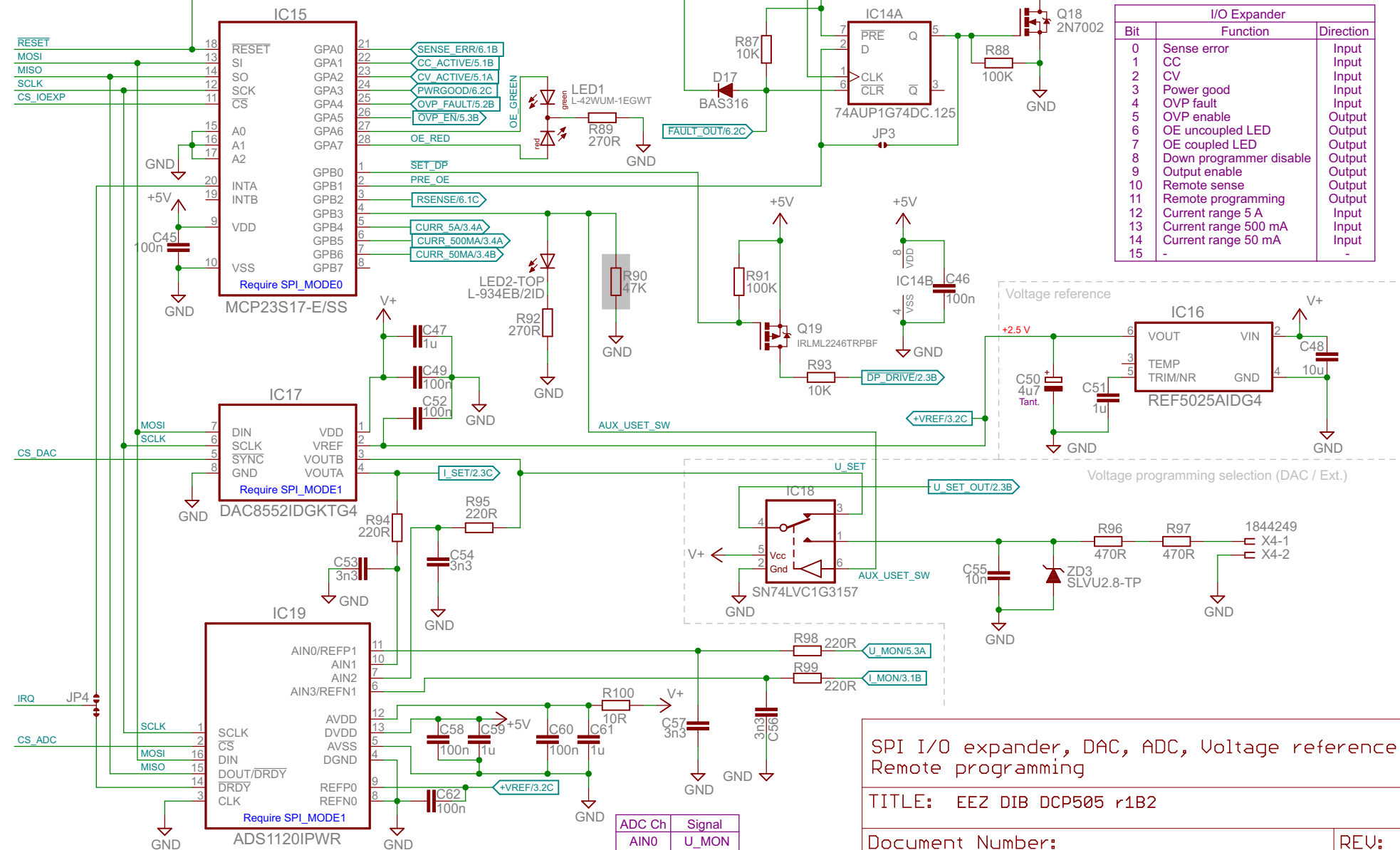
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Digital control (SPI)

OE_TRIG



I/O Expander		
Bit	Function	Direction
0	Sense error	Input
1	CC	Input
2	CV	Input
3	Power good	Input
4	OVP fault	Input
5	OVP enable	Output
6	OE uncoupled LED	Output
7	OE coupled LED	Output
8	Down programmer disable	Output
9	Output enable	Output
10	Remote sense	Output
11	Remote programming	Output
12	Current range 5 A	Input
13	Current range 500 mA	Input
14	Current range 50 mA	Input
15	-	-

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

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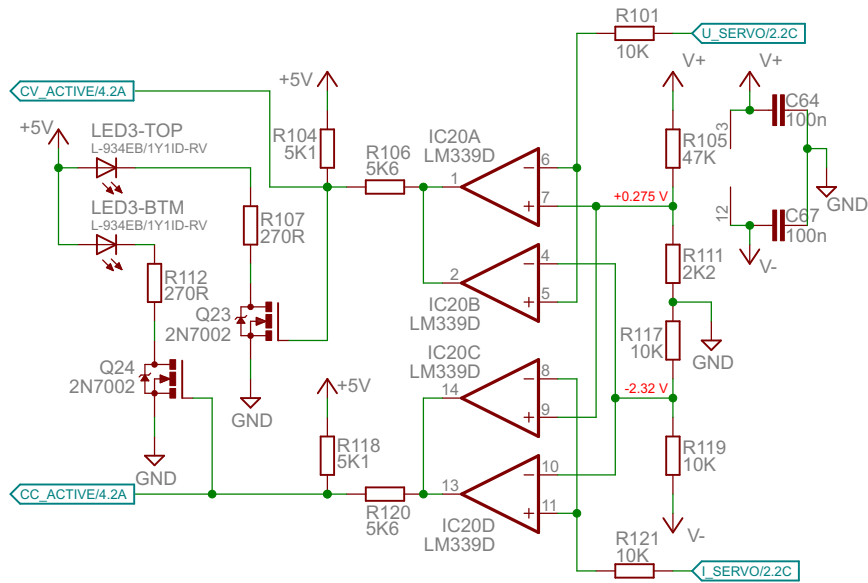
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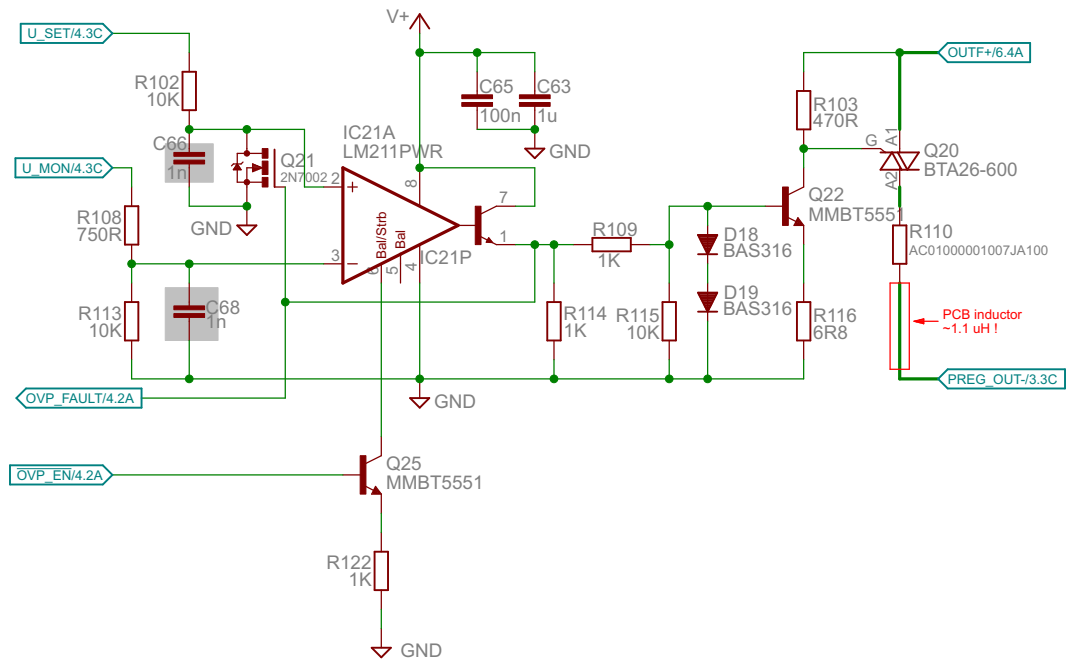
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Constant Voltage (CV) and Constant Current (CC) mode detection and indication



Over-voltage protection (OVP)



CC/CV mode detection and indication, OVP

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