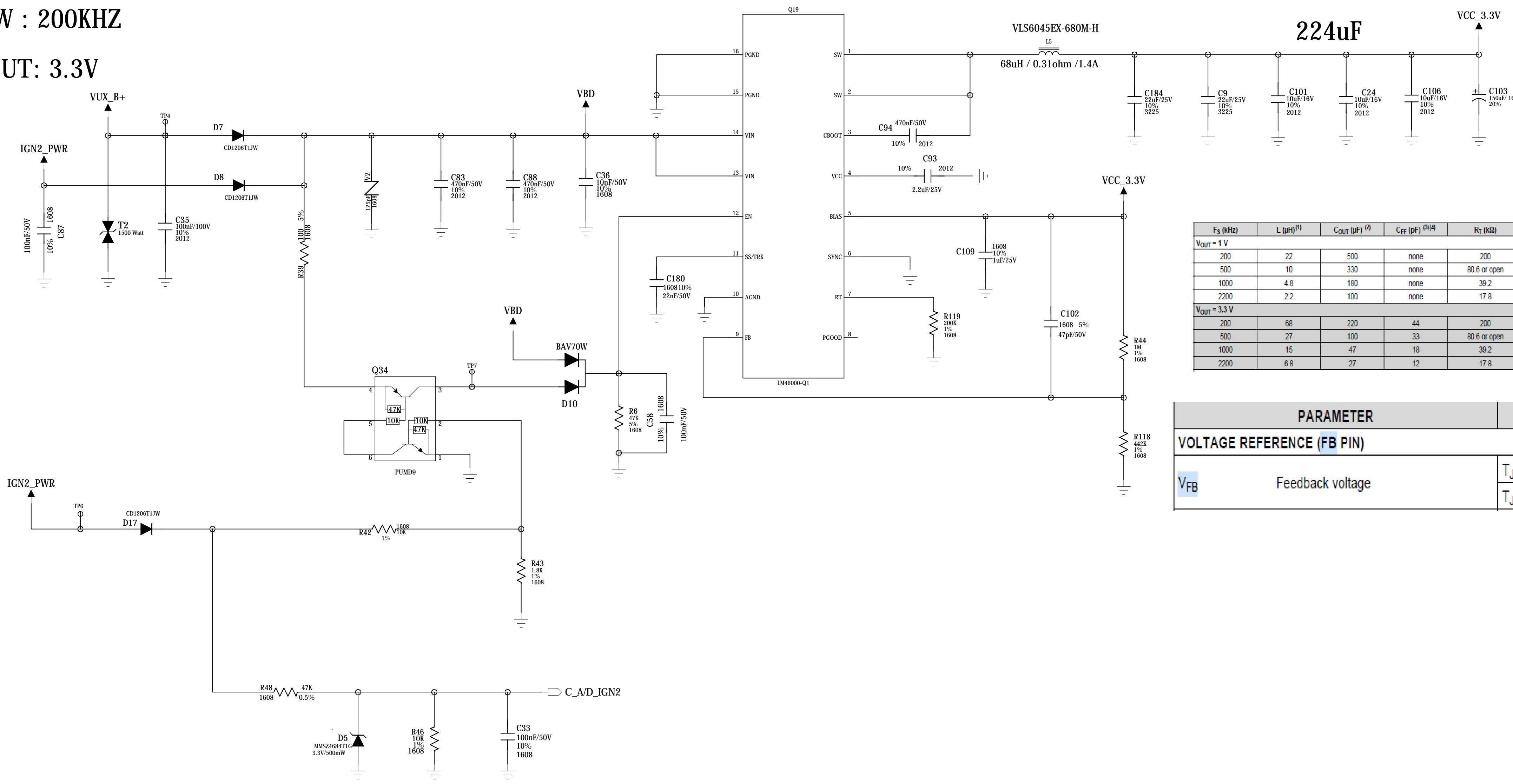


VIN 8~ 16V
 FSW : 200KHZ
 VOUT: 3.3V

REVISION RECORD			
ITR	ECO NO.	APPROVED	DATE



Fs (kHz)	L (uH) [1]	Cout (uF) [2]	Cin (uF) [3]	Rz (mOhm)	Rpsm (mOhm) [4]
Vout = 1 V					
200	22	500	none	200	100
500	10	330	none	50.6 of open	100
1000	4.8	180	none	39.2	100
2200	2.2	100	none	17.8	100
Vout = 3.3 V					
200	68	220	44	200	442
500	27	100	33	50.6 of open	442
1000	15	47	15	39.2	442
2200	6.8	27	12	17.8	442

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
VOLTAGE REFERENCE (FB PIN)					
V _{FB}	Feedback voltage				V
		T _J = 25°C	1.009	1.016	
		T _J = -40°C to 125°C	0.999	1.016	1.039

DRAWN: JH CHO		DATE: 18.02.28		COMPANY:	
CHECKED: JH CHO		DATE: 12.06.18		TITLE: BMS	
QUALITY CONTROL: <QC By>		DATE: <QC Date>		CODE: <Code>	SIZE: E
RELEASED: <Released By>		DATE: <Release Date>		DRAWING NO: REVISION	REV: 2.00
SCALE: <Scale>		SHEET: 1 of 3			

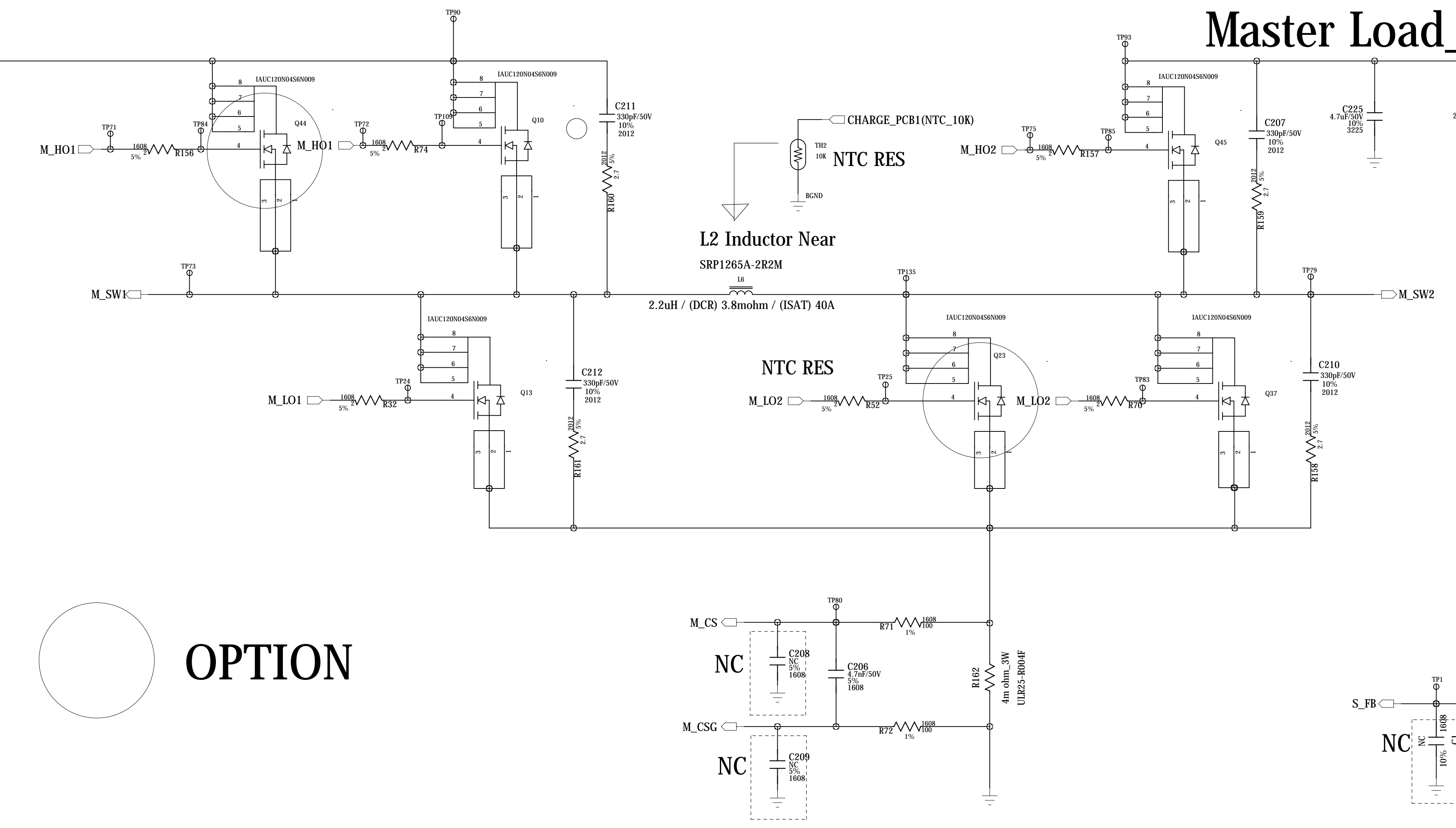
REVISION RECORD			
REV	REV NO	APPROVED	DATE

$$ID (FET) = \text{Square} \left(\frac{175-75}{(4.4\text{mohm} * 40)} \right) = 23.8A \quad (23.8*2 = 47.6A)$$

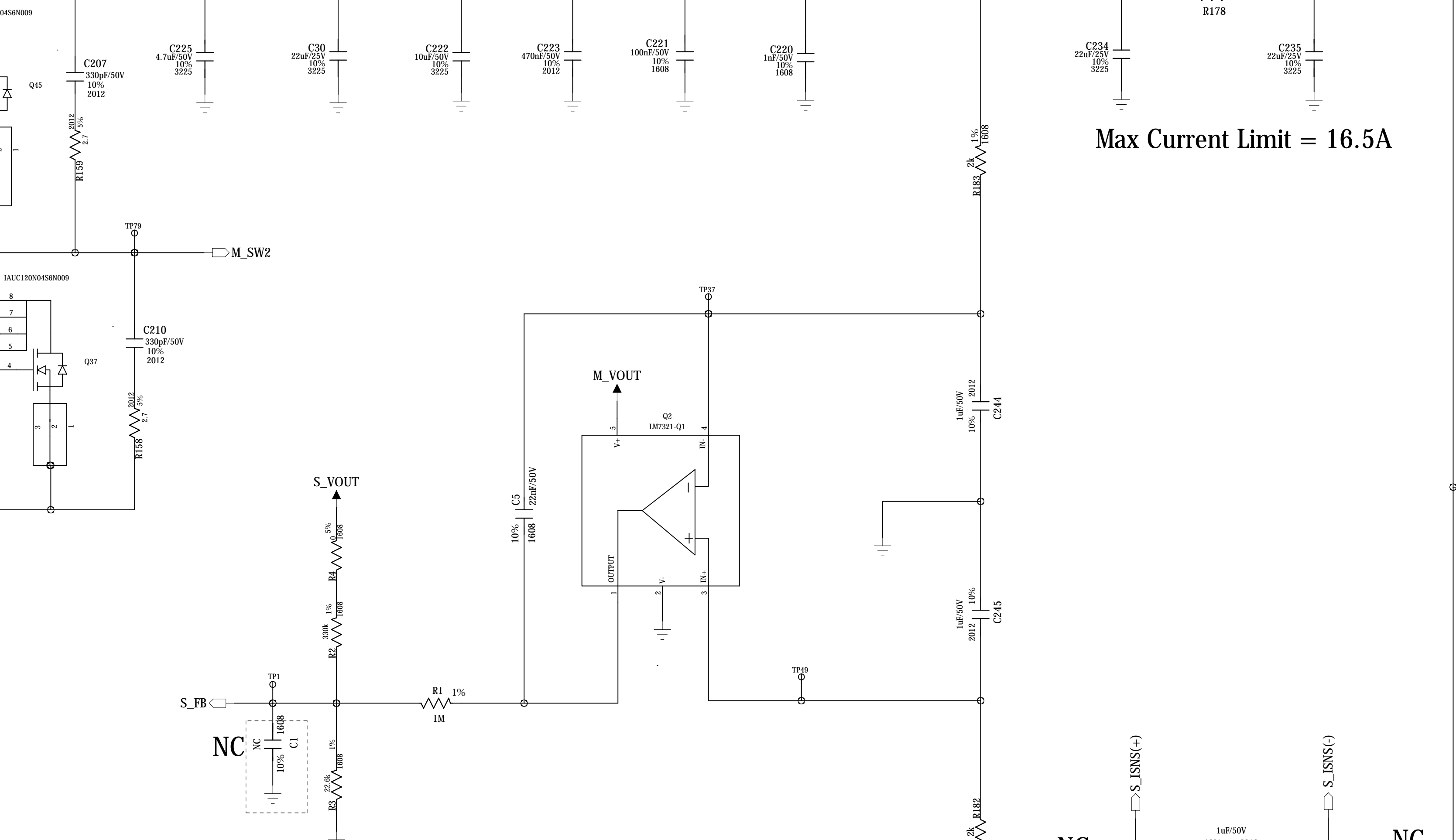
$$I (INPUT A) = 12.6V * 33A / (10V*0.9) = 46.2A$$

- ∅ VIN : 8~16V (Charging starts from 10V)
- ∅ FSW : 300KHZ (Master / Slave)
- ∅ 2Phase Max Charging Current Limit 33A : 16.5A Per 1Phase
- ∅ Charging Voltage : 12.6V
- ∅ LM5176 2EA Applications : Master 1EA / Slave 1EA
- ∅ CC (Constant Current) Variable Control
- ∅ NC : (NOT Connect)

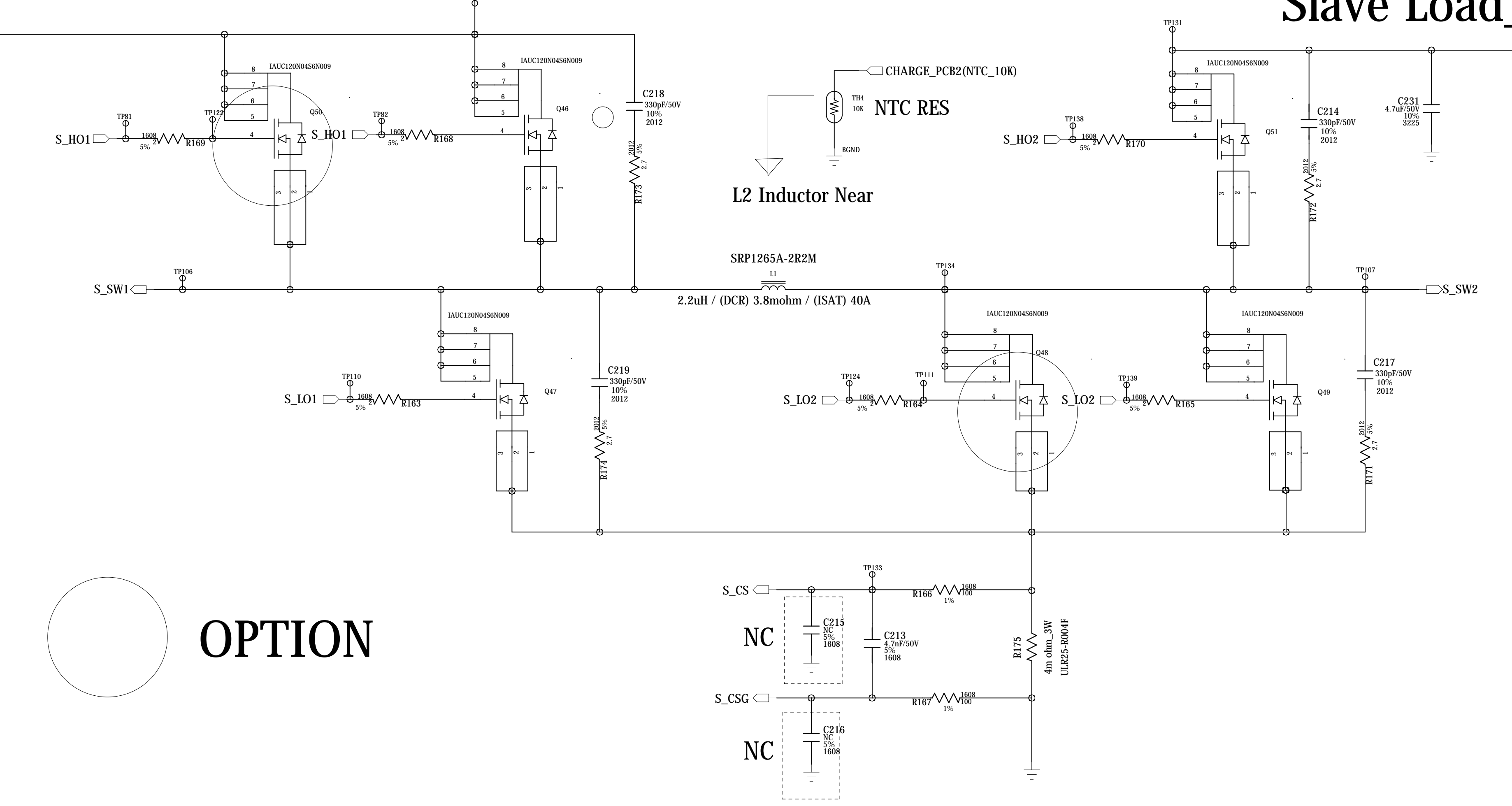
Master Control_ 12.6V / 16.5A



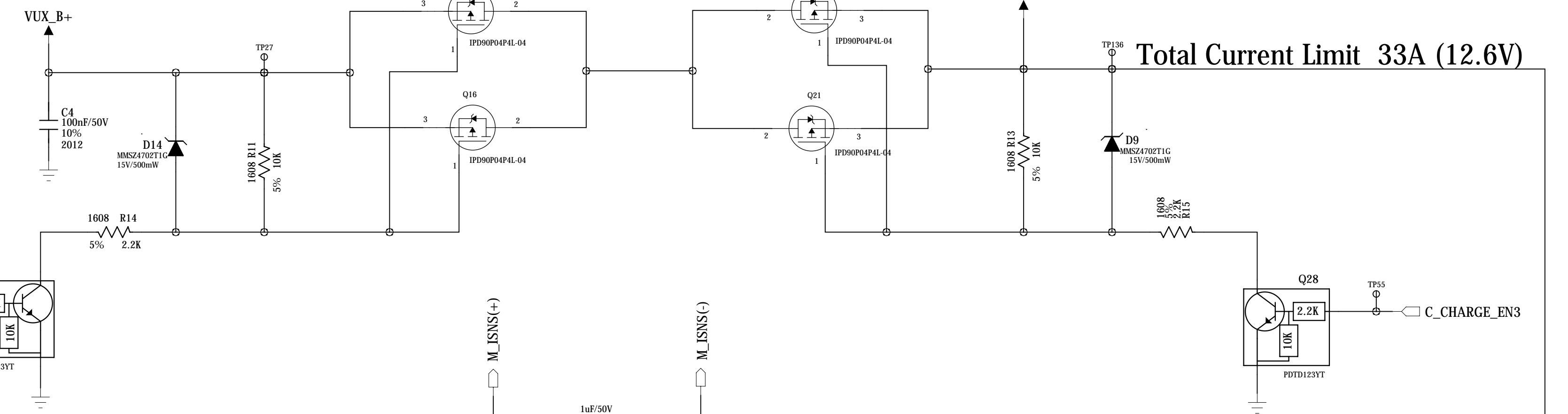
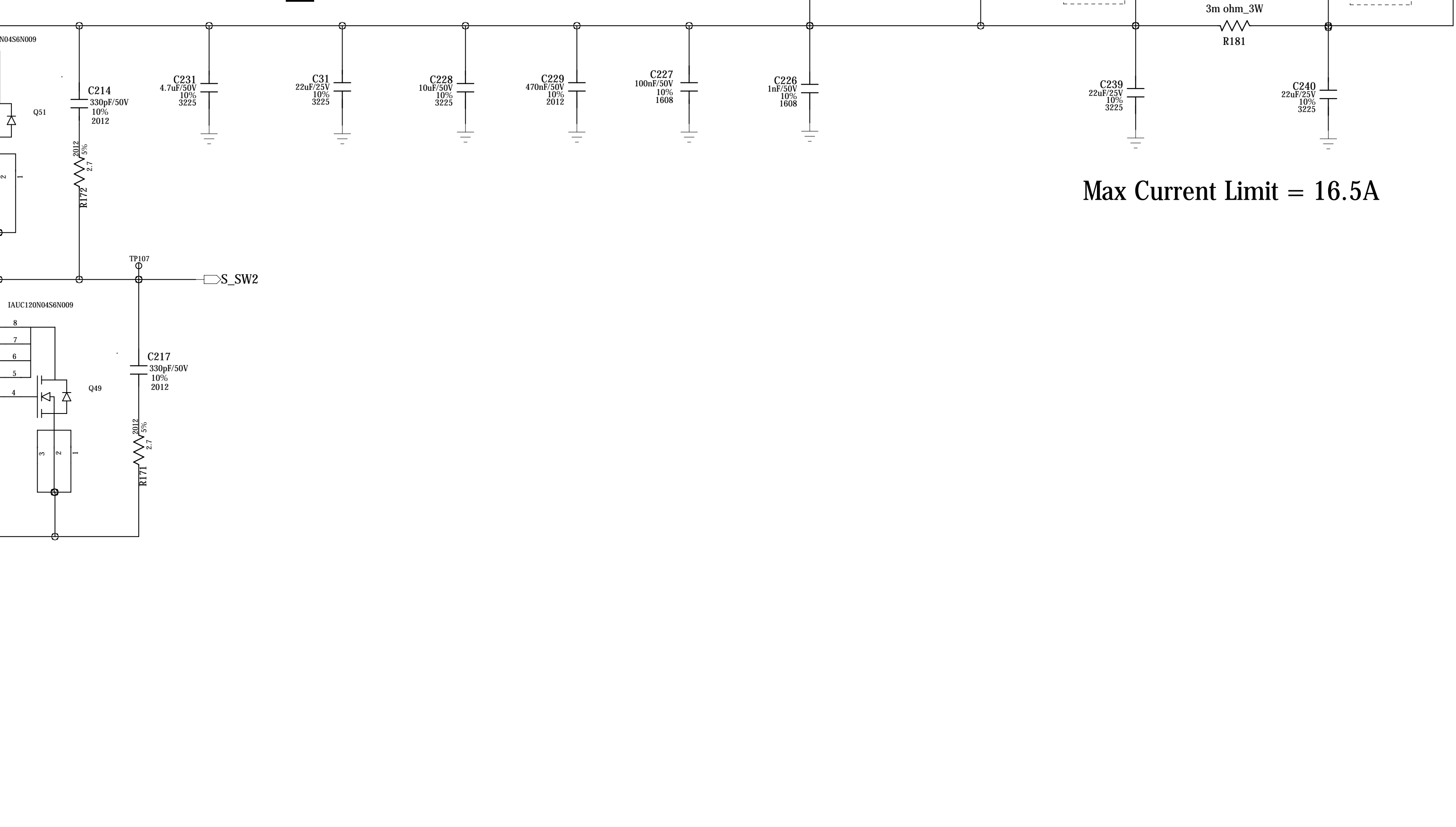
Master Load_ 12.6V / 16.5A



Slave Control_ 12.6V / 16.5A

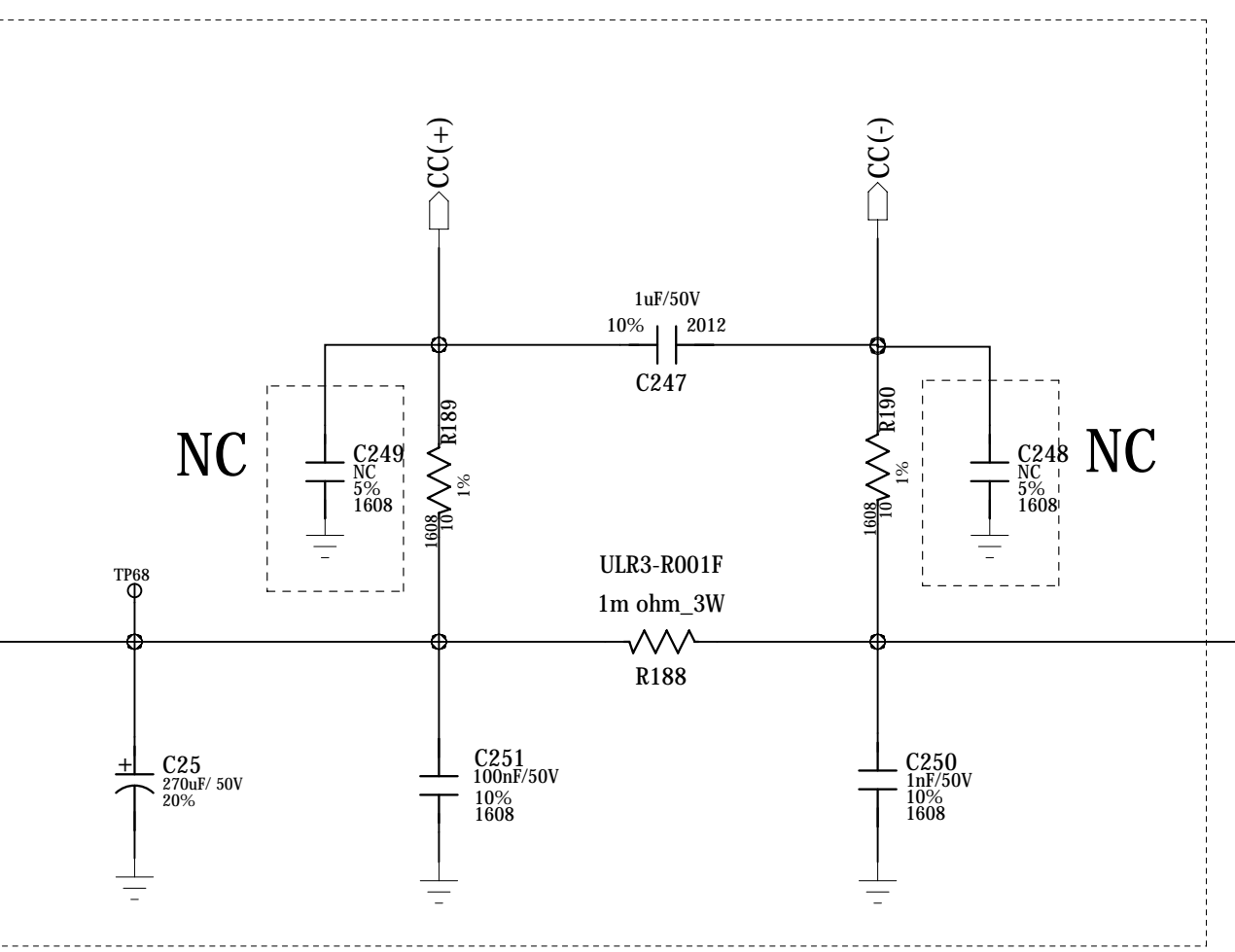


Slave Load_ 12.6V / 16.5A



Total Current Limit 33A (12.6V)

Max Current Limit = 16.5A



CC (Constant Current Variable Control)

OPTION

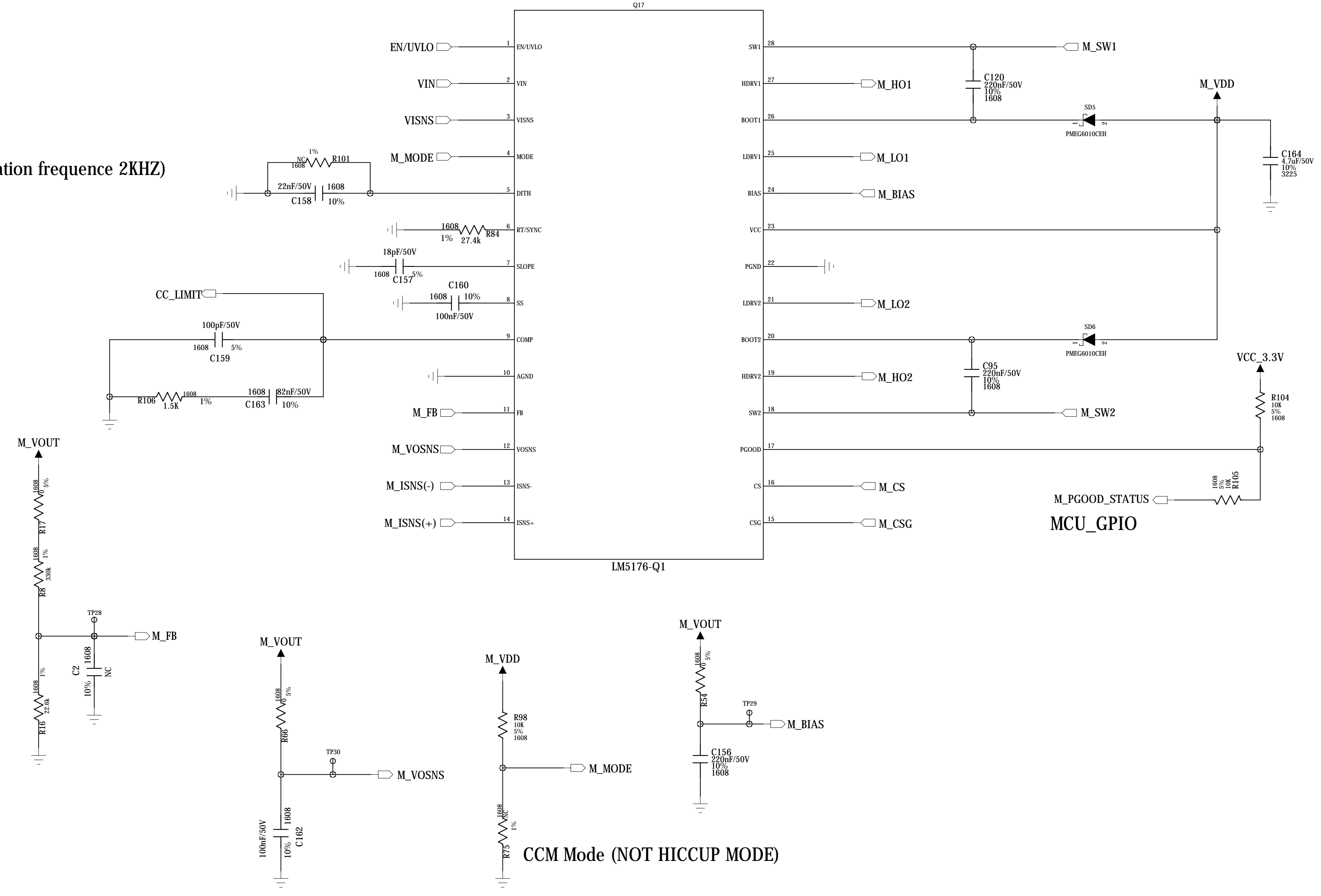
OPTION

COMPANY:		TITLE:	
BMS		BMS	
DRAWN: JH CHO	DATE: 18.02.28	CORR:	SIZE: E
CHECKED: JH CHO	DATE: 12.06.18	SCALE: <Code>	DRAWING NO: REVISION 2.00
QUALITY CONTROL: <QC By>	DATE: <QC Date>	SCALE: <Scale>	SHEET 2 of 3
RELEASED: <Released By>	DATE: <Release Date>		

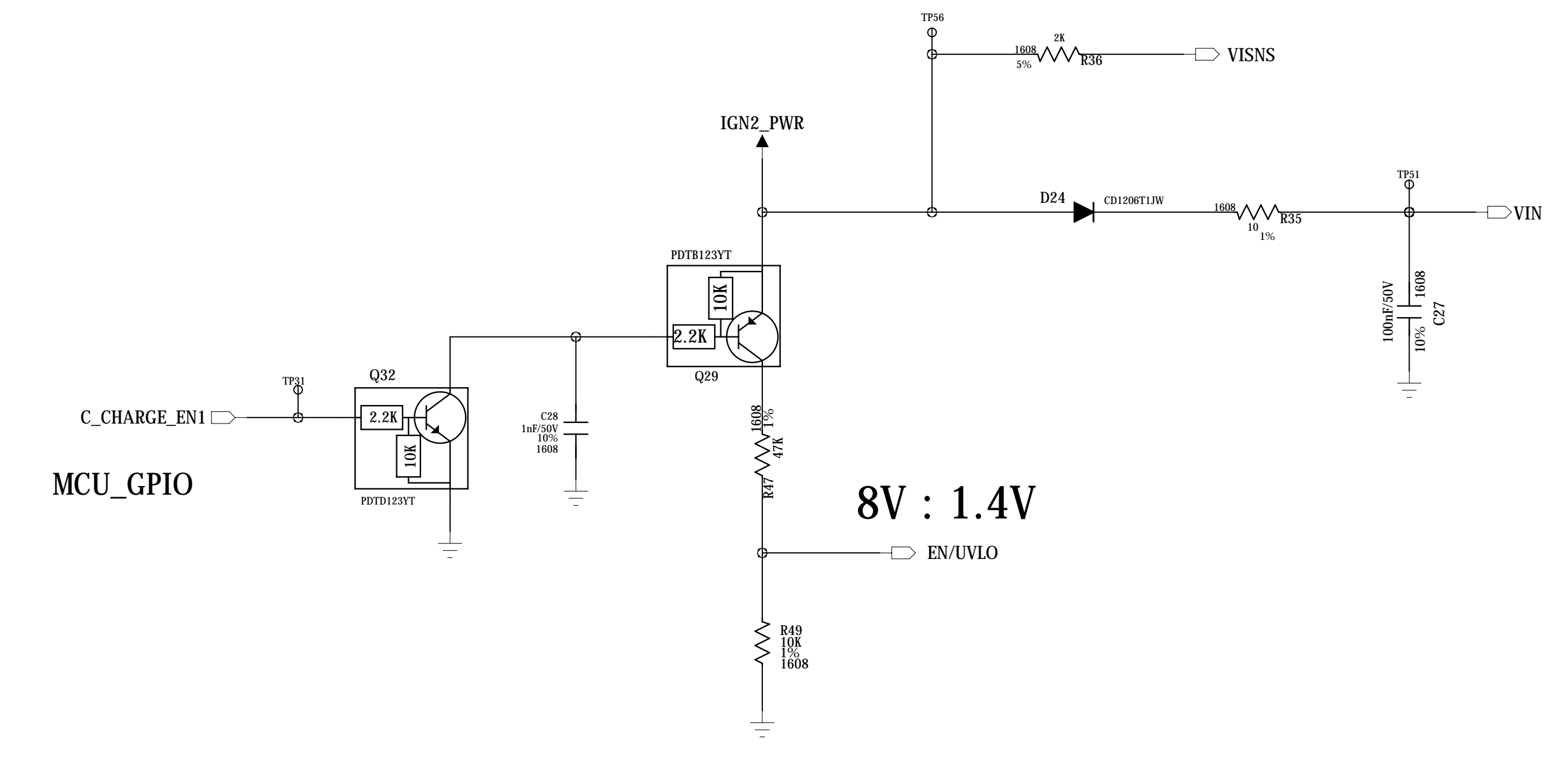
REVISION RECORD			
ITR	REV NO	APPROVED	DATE

MASTER #1 LM5176

(Modulation frequency 2KHZ)

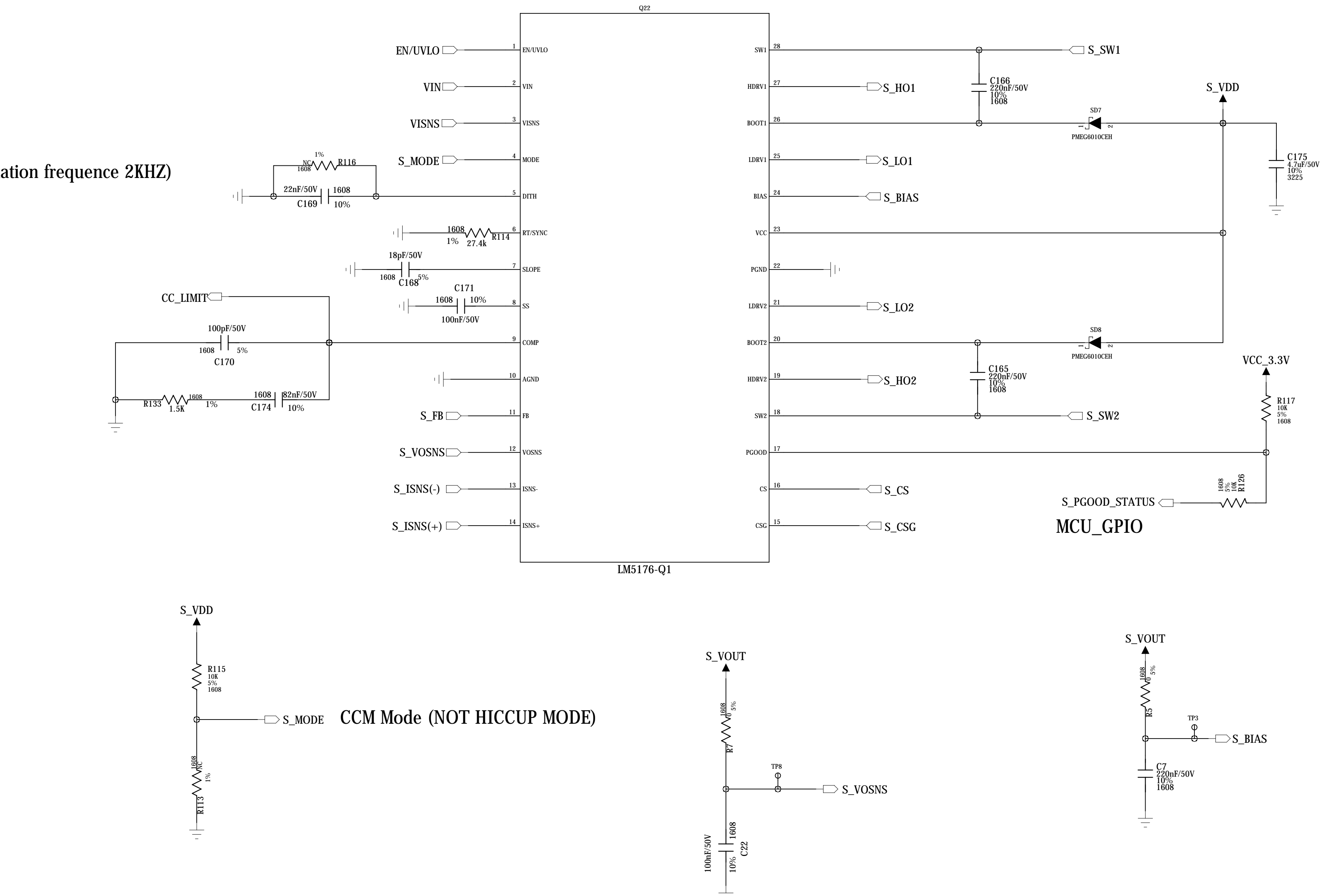


Power Supply of Master and Slave

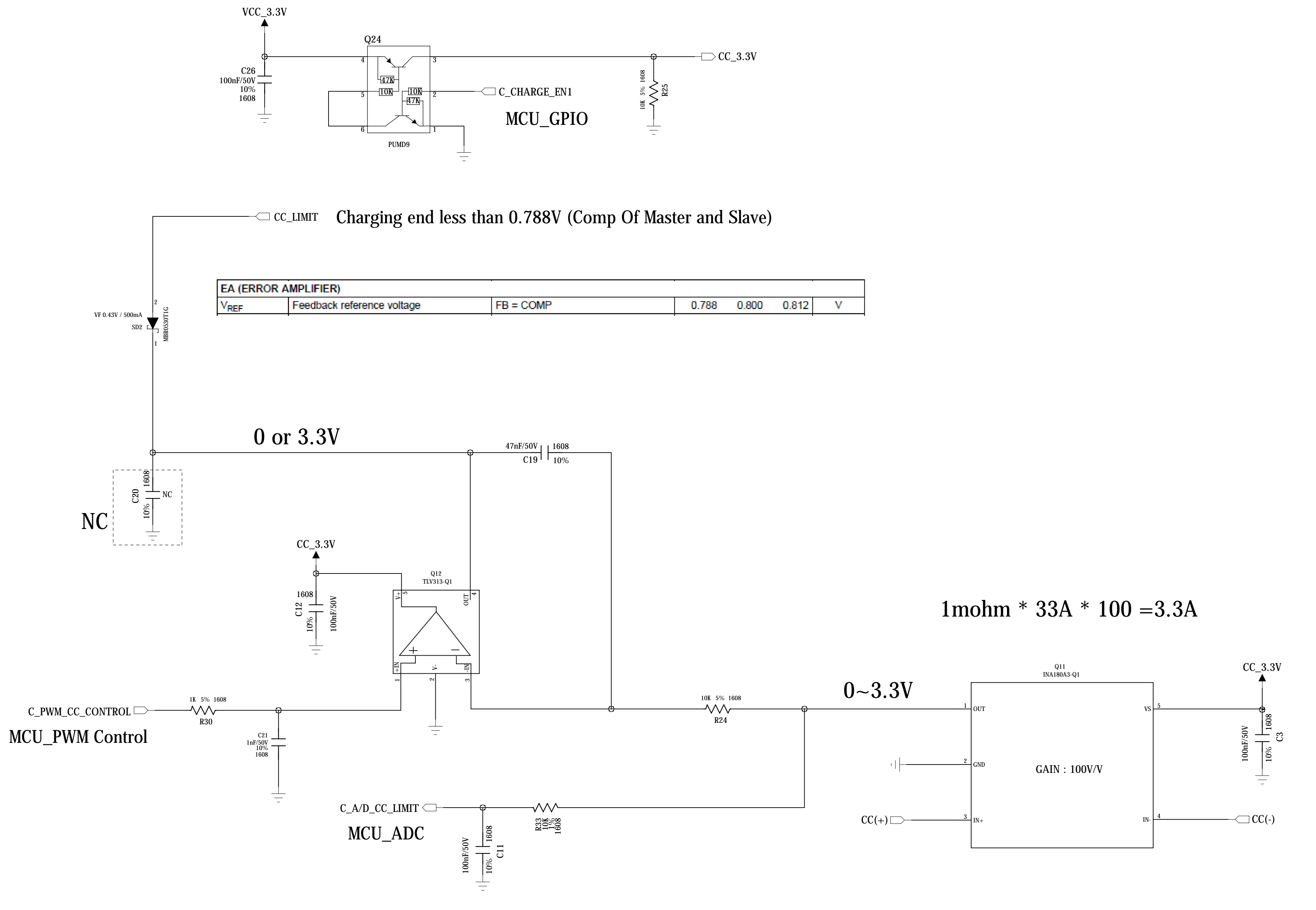


SLAVE #2 LM5176

(Modulation frequency 2KHZ)



CC (Constant Current) Variable Control



COMPANY:			
TITLE			
BMS			
DESIGNED: JH CHO	DATE: 18.02.28	CHECKED: JH CHO	DATE: 12.06.18
QUALITY CONTROL: <QC By>	DATE: <QC Date>	RELEASED: <Released By>	DATE: <Release Date>
CODE: <Code>	SIZE: E	DRAWING NO: REVISION	REV. 2.00
SCALE: <Scale>	SHEET: 2	3	