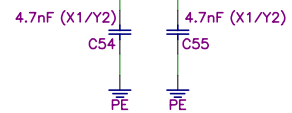
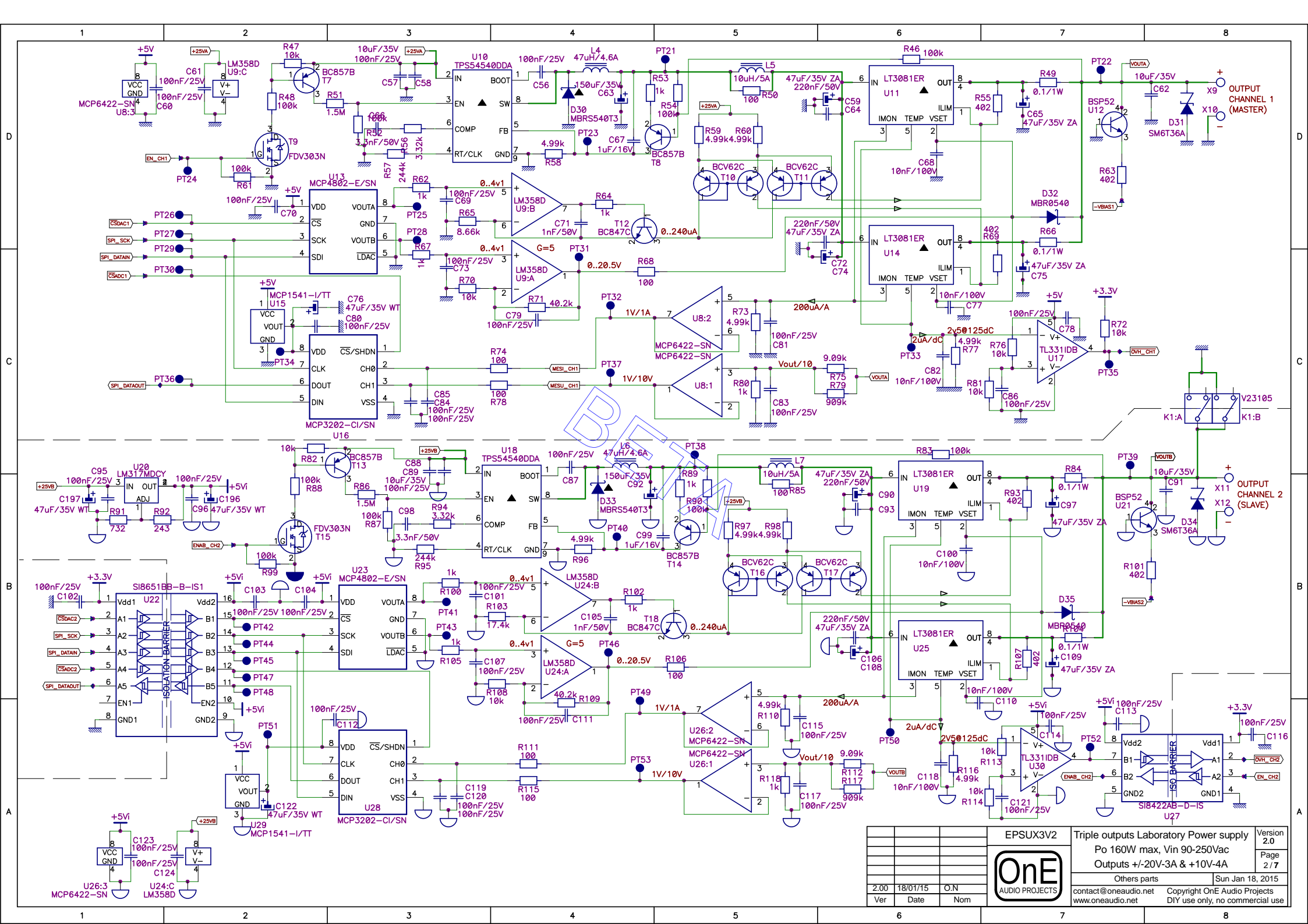


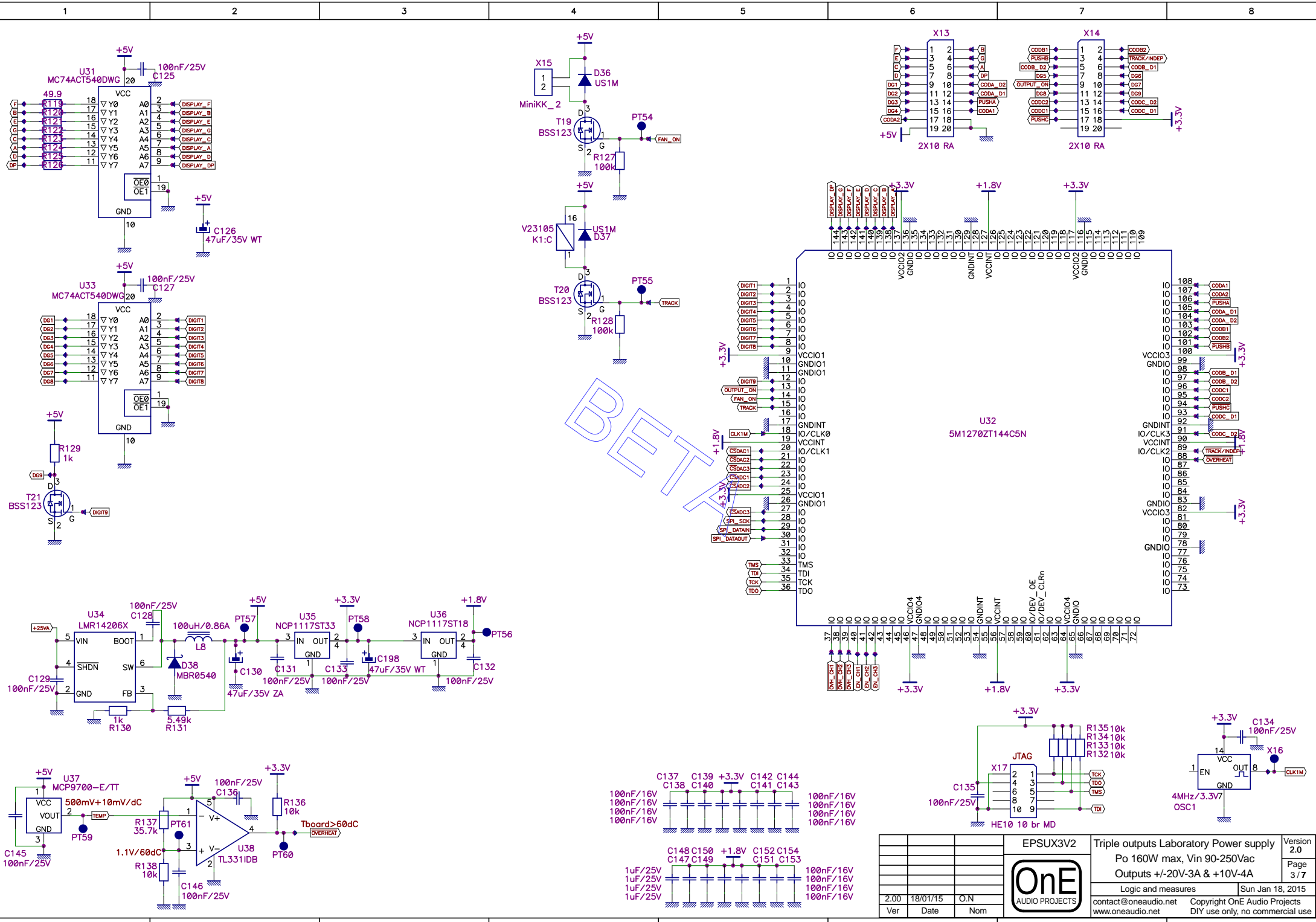
BRIDGE RECTIFIER LINKED TO ENCLOSURE ▲ = COOLING REQUIRED



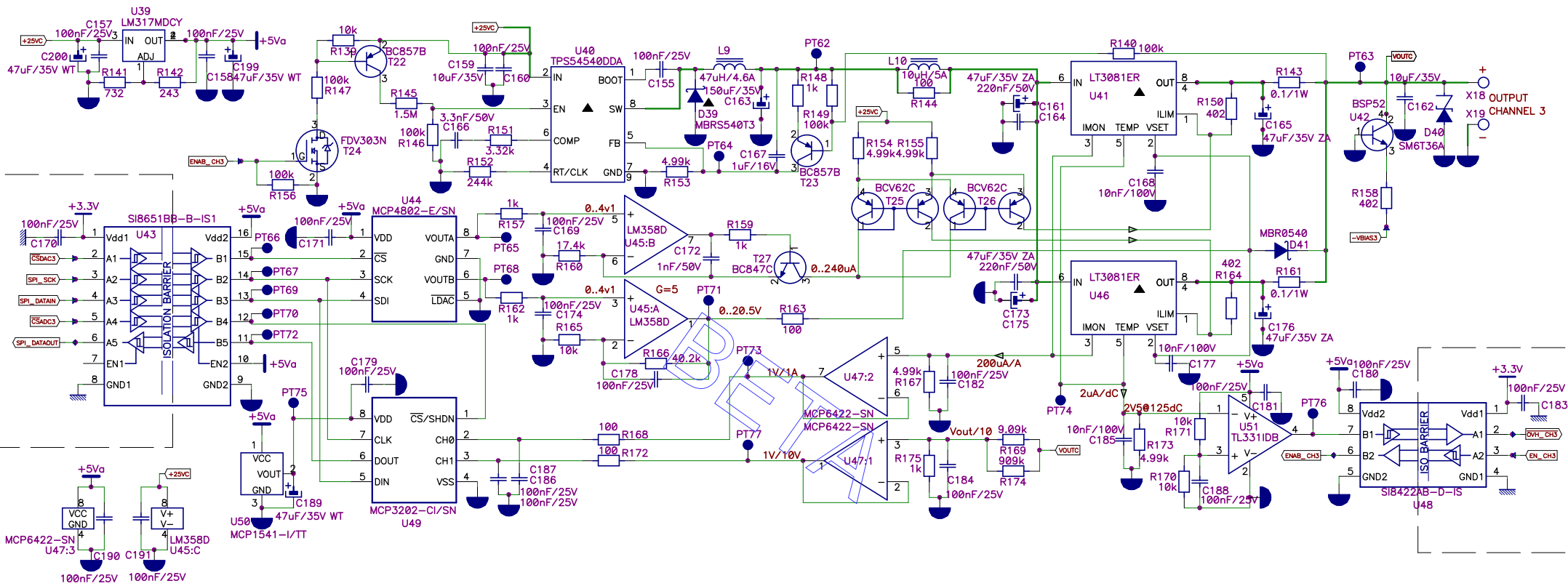
EPSUX3V2			Triple outputs Laboratory Power supply		Version 2.0
OnE AUDIO PROJECTS			Po 160W max, Vin 90-250Vac		Page 1 / 7
			Outputs +/-20V-3A & +10V-4A		
			Flyback SMPS		Sun Jan 18, 2015
2.00	18/01/15	O.N	contact@oneaudio.net		Copyright OnE Audio Projects
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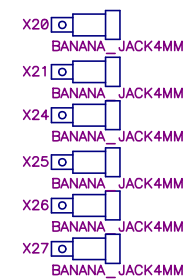
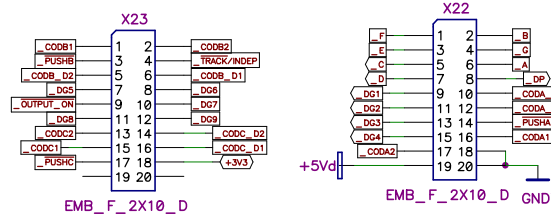
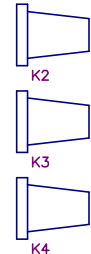
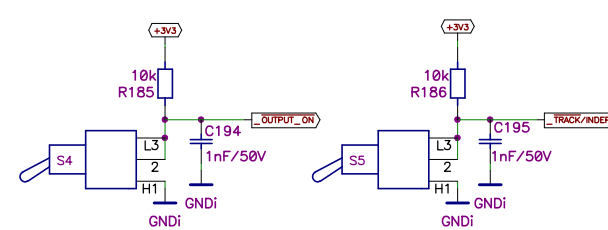
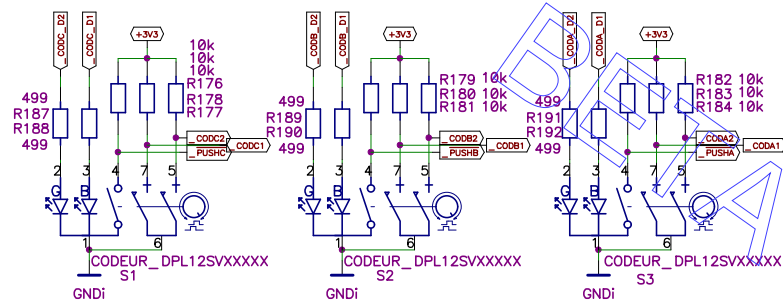
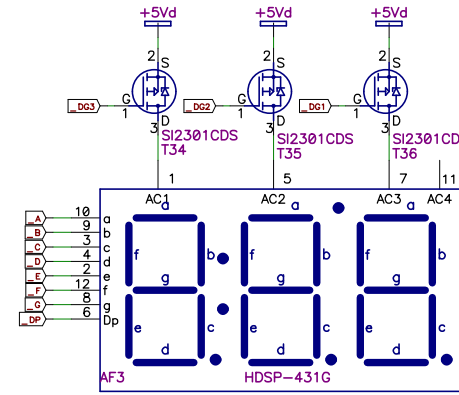
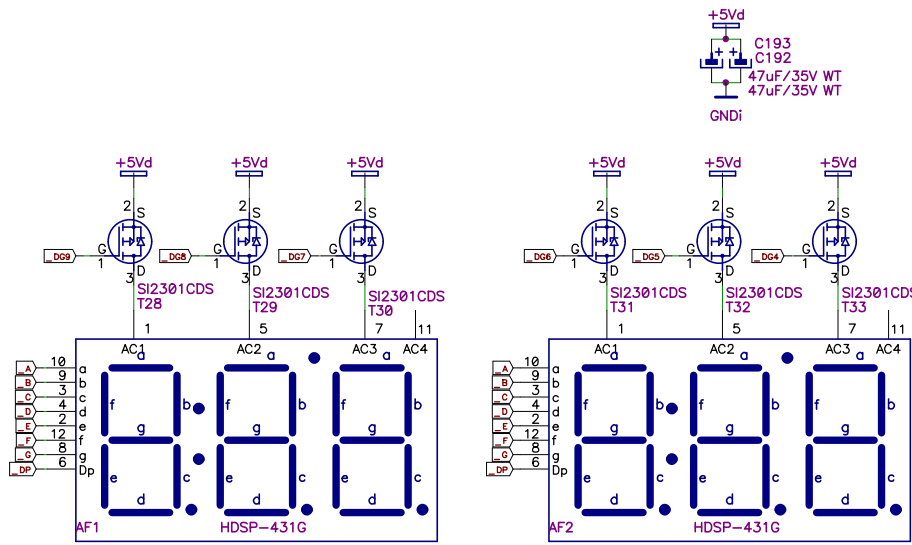


			<b>EPSUX3V2</b> 		Triple outputs Laboratory Power supply Po 160W max, Vin 90-250Vac Outputs +/-20V-3A & +10V-4A	Version 2.0 Page 2 / 7
			Others parts		Sun Jan 18, 2015	
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EPSUX3V2			Triple outputs Laboratory Power supply		Version 2.0
OnE AUDIO PROJECTS			Po 160W max, Vin 90-250Vac		Page 3 / 7
			Outputs +20V-3A & +10V-4A		
			Logic and measures		Jun Jan 18, 2015
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Ver	Date	Nom			





Power Table																						
Ref Des	Device(Type)	Package	GND	YGND	ZGND	+5V	+3.3V	DGND	+1.8V	NET00270	+VCC	+25VB	+25VC	NET00080	NET00193	NET00213	NET00346	NET00351	+5VI	+5VA	+25VA	
U1	NCP5304DR2G	SOIC8_N						4			3											
U2	NCP1654BD133R2G	SOIC8_N						1			7											
U3	STN1NK60Z	SOT223									3											
U4	UCC25600D	SOIC8_N						6			7											
U5	TL331IDB	SOT23_5L						2			5											
U6	SFH6156-4T	DIP4_N_CMS						3														
U7	NCP431AVSN	SOT23_3L	3																			
U8	MCP6422-SN	SOIC8_N	4			8																
U9	LM358D	SOIC8_N	4																			8
U10	TPS54540DDA	SOIC8_N_PWP	9,7																			2
U11	LT3081ER	D2PAK-7														6						
U12	BSP52	SOT223	1																			
U13	MCP4802-E/SN	SOIC8_N	7,5			1																
U14	LT3081ER	D2PAK-7														6						
U15	MCP1541-I/TT	SOT23_3L	3			1									2							
U16	MCP3202-CI/SN	SOIC8_N	4												8							
U17	TL331IDB	SOT23_5L	2			5																
U18	TPS54540DDA	SOIC8_N_PWP			9,7						2											
U19	LT3081ER	D2PAK-7																6				
U20	LM317MDCY	SOT223									3										4,2	
U21	BSP52	SOT223			1																	
U22	SI8651BB-B-IS1	SOIC16_N	8		9		1														10,16	
U23	MCP4802-E/SN	SOIC8_N			7,5																1	
U24	LM358D	SOIC8_N			4						8											
U25	LT3081ER	D2PAK-7																6				
U26	MCP6422-SN	SOIC8_N			4																8	
U27	SI8422AB-D-IS	SOIC8_N	4		5		1														8	
U28	MCP3202-CI/SN	SOIC8_N			4																	
U29	MCP1541-I/TT	SOT23_3L			3												8				1	
U30	TL331IDB	SOT23_5L			2											2					5	
U31	MC74ACT540DWG	SOIC20_L	10,19,1			20																
U32	5M1270ZT144C5N	QFP144_0.5MM	99,92,83,78,115,128,11,54,10,17,26,135,65,47							100,82,116,136,64,46,25,9					90,19,126,56							
U33	MC74ACT540DWG	SOIC20_L	10,19,1			20																
U34	LMR14206X	SOT23_6L	2																			4,5
U35	NCP1117ST33	SOT223	1			3	4,2															
U36	NCP1117ST18	SOT223	1			3				4,2												
U37	MCP9700-E/TT	SOT23_3L	3			1																
U38	TL331IDB	SOT23_5L	2			5																
U39	LM317MDCY	SOT223									3											4,2
U40	TPS54540DDA	SOIC8_N_PWP			9,7																	
U41	LT3081ER	D2PAK-7																				
U42	BSP52	SOT223			1																	
U43	SI8651BB-B-IS1	SOIC16_N	8		9		1															10,16
U44	MCP4802-E/SN	SOIC8_N			7,5																	1
U45	LM358D	SOIC8_N			4																	
U46	LT3081ER	D2PAK-7																				
U47	MCP6422-SN	SOIC8_N			4																	8
U48	SI8422AB-D-IS	SOIC8_N	4		5		1															8
U49	MCP3202-CI/SN	SOIC8_N			4																	
U50	MCP1541-I/TT	SOT23_3L			3						8											1
U51	TL331IDB	SOT23_5L			2						2											5

BETA



D

C

B

A

D

C

B

A

Net Name	Net Index Table	Sheets
-VBIAS1	Flyback SMPS[8C],Others parts[7D]	
-VBIAS2	Flyback SMPS[8C],Others parts[8B]	
-VBIAS3	Flyback SMPS[8D],Buck regulators[7C]	
A	Logic and measures[1D],[6D]	
B	Logic and measures[1D],[6D]	
C	Logic and measures[6D],[1D]	
CLK1M	Logic and measures[5C],[8A]	
CODA1	Logic and measures[6D],[8C]	
CODA2	Logic and measures[6D],[8C]	
CODA_D1	Logic and measures[6D],[8C]	
CODA_D2	Logic and measures[6D],[8C]	
CODB1	Logic and measures[7D],[8C]	
CODB2	Logic and measures[7D],[8C]	
CODB_D1	Logic and measures[7D],[8C]	
CODB_D2	Logic and measures[7D],[8C]	
CODC1	Logic and measures[7D],[8C]	
CODC2	Logic and measures[7D],[8C]	
CODC_D1	Logic and measures[7D],[8C]	
CODC_D2	Logic and measures[7D],[8C]	
D	Logic and measures[6D],[1D]	
DG1	Logic and measures[6D],[1C]	
DG2	Logic and measures[6D],[1C]	
DG3	Logic and measures[6D],[1C]	
DG4	Logic and measures[6D],[1C]	
DG5	Logic and measures[7D],[1C]	
DG6	Logic and measures[1C],[7D]	
DG7	Logic and measures[1C],[7D]	
DG8	Logic and measures[7D],[1C]	
DG9	Logic and measures[1B],[7D]	
DIGIT1	Logic and measures[2C],[5C]	
DIGIT2	Logic and measures[2C],[5C]	
DIGIT3	Logic and measures[2C],[5C]	
DIGIT4	Logic and measures[2C],[5C]	
DIGIT5	Logic and measures[2C],[5C]	
DIGIT6	Logic and measures[2C],[5C]	
DIGIT7	Logic and measures[2C],[5C]	
DIGIT8	Logic and measures[2C],[5C]	
DIGIT9	Logic and measures[1B],[5C]	
DISPLAY_A	Logic and measures[2D],[6D]	
DISPLAY_B	Logic and measures[2D],[6D]	
DISPLAY_C	Logic and measures[2D],[6D]	
DISPLAY_D	Logic and measures[2D],[6D]	
DISPLAY_DP	Logic and measures[2D],[6D]	
DISPLAY_E	Logic and measures[2D],[6D]	
DISPLAY_F	Logic and measures[2D],[6D]	
DISPLAY_G	Logic and measures[2D],[6D]	
DIP	Logic and measures[1D],[6D]	
E	Logic and measures[6D],[1D]	
ENAB_CH2	Others parts[2B],[7A]	
ENAB_CH3	Buck regulators[2C],[7B]	
EN_CH1	Logic and measures[8B],Others parts[2D]	
EN_CH2	Logic and measures[8B],Others parts[8A]	
EN_CH3	Buck regulators[8B],Logic and measures[8B]	
F	Logic and measures[6D],[1D]	
FAN_ON	Logic and measures[5C],[4D]	
G	Logic and measures[1D],[6D]	
SPI_DATIN	Buck regulators[1C],Logic and measures[5B],Others parts[1B],[1C]	
SPI_DATAOUT	Others parts[1B],[1C]	
SPI_SCK	Buck regulators[1C],Logic and measures[5B],Others parts[1B],[1D]	
TRACK	Logic and measures[5C],[4C]	
CSADC1	Logic and measures[5B],Others parts[1C]	
CSADC2	Logic and measures[5B],Others parts[1B]	
CSADC3	Buck regulators[1C],Logic and measures[5B]	
CSDAC1	Logic and measures[5C],Others parts[1D]	
CSDAC2	Logic and measures[5C],Others parts[1B]	
CSDAC3	Buck regulators[1C],Logic and measures[5C]	
OUTPUT_ON	Buck regulators[1C],Logic and measures[5C]	
OVERHEAT	Logic and measures[7D],[5C]	
OVIH_CH1	Logic and measures[6C],[2A]	
OVIH_CH2	Logic and measures[6B],Others parts[7C]	
OVIH_CH3	Logic and measures[6B],Others parts[8A]	
PUSHA	Buck regulators[8B],Logic and measures[8B]	
PUSHB	Logic and measures[6D],[8C]	
PUSHC	Logic and measures[7D],[8C]	
TRACK/INDEF	Logic and measures[7D],[8C]	

BETA

Spare Gate Table		
Last Used	Not Used	Spare Gates
AF3		
BR1		
C200	C84, C156	
D41		
K4		
L10		
OSC1		
P177		
R192		
RAD3		
S5		
SUP_F1		
T36		
TR1		
U61		
VR2		
X27		

		EPSUX3V2		Triple outputs Laboratory Power supply		Version 2.0	
						Page 7 / 7	
						Tables 2	
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