

Перв. примен.		ЕЕ SON73	
Справ. №			
Подп. и дата			
Инд. № дубл.			
Взам. инд. №			
Подп. и дата		ELNOS 33	
Инд. № подл.			
Изм.		Лист	
№ докум.		Подп.	
Дата			
Разраб.			
Проб.			
Т.контр.			
Н.контр.			
Утв.			

Лист 2		Лист 7	
DWN_KEY	HEATERS	HEATERS	HEAT CONT
MD_KEY			VENT
UP_KEY			
Tsens	Usnrl	Usnrl	ADC SPI
Лист 5		Лист 4	
Tsens	TEMP	TEMP	ADC SPI
Лист 3		Лист 6	
UP_KEY	IN_UP_KEY	IN_UP_KEY	VENT
MD_KEY	IN_MD_KEY	IN_MD_KEY	HEAT CONT
DWN_KEY	IN_DWN_KEY	IN_DWN_KEY	
Лист 8		Лист 9	
HMDT1	HMDT1	HMDT1	ONOFF_TEMP
HMDT2	HMDT2	HMDT2	
PWR_HMDT	PWR_HMDT	PWR_HMDT	
VALVE_On/Off	VALVE_On/Off	VALVE_On/Off	
PWR_VALVE	PWR_VALVE	PWR_VALVE	

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MD_KEY	IN_MD_KEY	IN_MD_KEY	HEAT CONT
DWN_KEY	IN_DWN_KEY	IN_DWN_KEY	
Лист 8		Лист 9	
HMDT1	HMDT1	HMDT1	ONOFF_TEMP
HMDT2	HMDT2	HMDT2	
PWR_HMDT	PWR_HMDT	PWR_HMDT	
VALVE_On/Off	VALVE_On/Off	VALVE_On/Off	
PWR_VALVE	PWR_VALVE	PWR_VALVE	

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HMDT1	HMDT1	HMDT1	ONOFF_TEMP
HMDT2	HMDT2	HMDT2	
PWR_HMDT	PWR_HMDT	PWR_HMDT	
VALVE_On/Off	VALVE_On/Off	VALVE_On/Off	
PWR_VALVE	PWR_VALVE	PWR_VALVE	

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Лист 8		Лист 9	
HMDT1	HMDT1	HMDT1	ONOFF_TEMP
HMDT2	HMDT2	HMDT2	
PWR_HMDT	PWR_HMDT	PWR_HMDT	
VALVE_On/Off	VALVE_On/Off	VALVE_On/Off	
PWR_VALVE	PWR_VALVE	PWR_VALVE	

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Лист 8		Лист 9	
HMDT1	HMDT1	HMDT1	ONOFF_TEMP
HMDT2	HMDT2	HMDT2	
PWR_HMDT	PWR_HMDT	PWR_HMDT	
VALVE_On/Off	VALVE_On/Off	VALVE_On/Off	
PWR_VALVE	PWR_VALVE	PWR_VALVE	

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HMDT1	HMDT1	HMDT1	ONOFF_TEMP
HMDT2	HMDT2	HMDT2	
PWR_HMDT	PWR_HMDT	PWR_HMDT	
VALVE_On/Off	VALVE_On/Off	VALVE_On/Off	
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PWR_HMDT	PWR_HMDT	PWR_HMDT	
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HMDT2	HMDT2	HMDT2	
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HMDT2	HMDT2	HMDT2	
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PWR_HMDT	PWR_HMDT	PWR_HMDT	
VALVE_On/Off	VALVE_On/Off	VALVE_On/Off	
PWR_VALVE	PWR_VALVE	PWR_VALVE	

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HMDT2	HMDT2	HMDT2	
PWR_HMDT	PWR_HMDT	PWR_HMDT	
VALVE_On/Off	VALVE_On/Off	VALVE_On/Off	
PWR_VALVE	PWR_VALVE	PWR_VALVE	

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MD_KEY	IN_MD_KEY	IN_MD_KEY	HEAT CONT
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Лист 8		Лист 9	
HMDT1	HMDT1	HMDT1	ONOFF_TEMP
HMDT2	HMDT2	HMDT2	
PWR_HMDT	PWR_HMDT	PWR_HMDT	
VALVE_On/Off	VALVE_On/Off	VALVE_On/Off	
PWR_VALVE	PWR_VALVE	PWR_VALVE	

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MD_KEY	IN_MD_KEY	IN_MD_KEY	HEAT CONT
DWN_KEY	IN_DWN_KEY	IN_DWN_KEY	
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HMDT1	HMDT1	HMDT1	ONOFF_TEMP
HMDT2	HMDT2	HMDT2	
PWR_HMDT	PWR_HMDT	PWR_HMDT	
VALVE_On/Off	VALVE_On/Off	VALVE_On/Off	
PWR_VALVE	PWR_VALVE	PWR_VALVE	

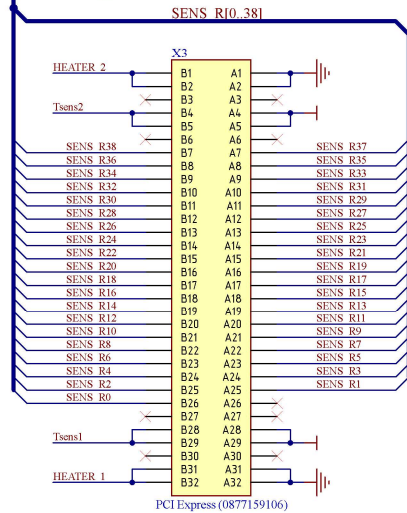
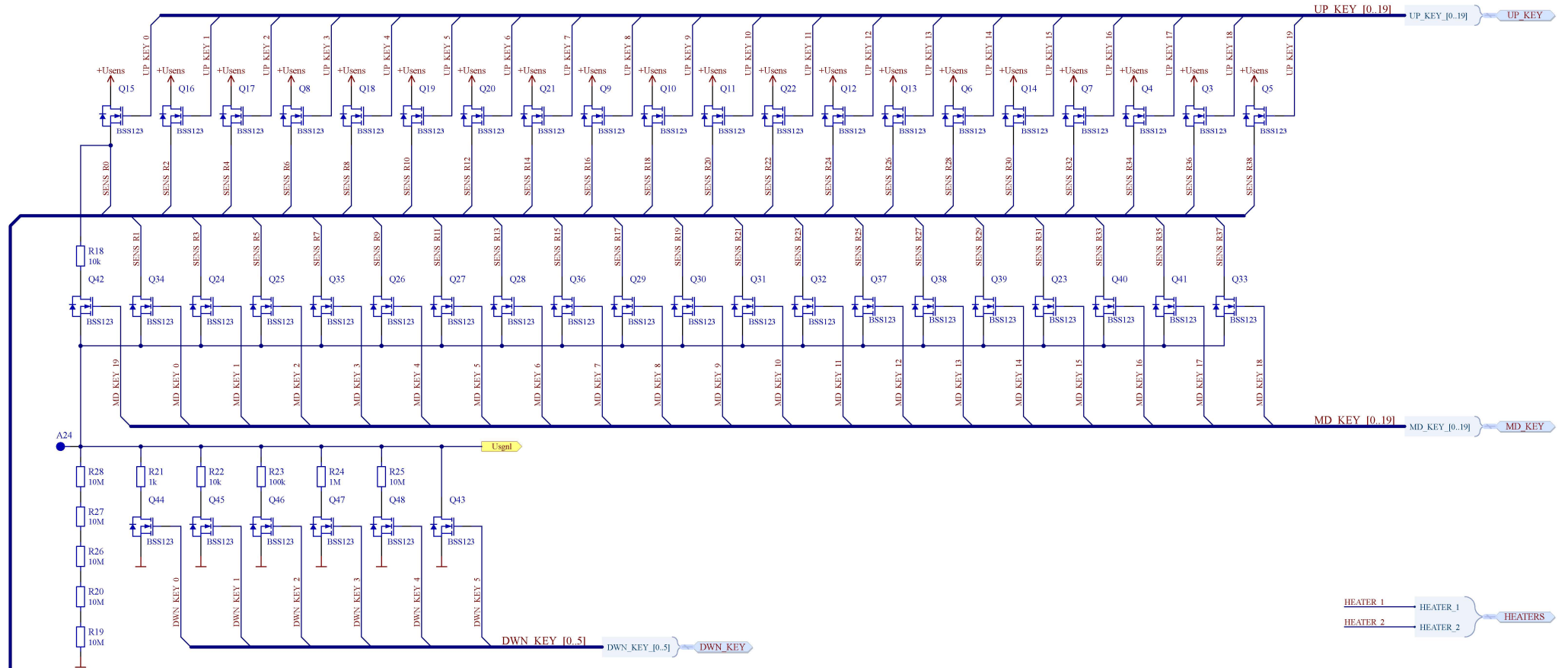
Лист 2		Лист 7	
DWN_KEY	HEATERS	HEATERS	HEAT CONT
MD_KEY			VENT
UP_KEY			
Tsens	Usnrl	Usnrl	ADC SPI
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HMDT2	HMDT2	HMDT2	
PWR_HMDT	PWR_HMDT	PWR_HMDT	
VALVE_On/Off	VALVE_On/Off	VALVE_On/Off	
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HMDT2	HMDT2	HMDT2	
PWR_HMDT	PWR_HMDT	PWR_HMDT	
VALVE_On/Off	VALVE_On/Off	VALVE_On/Off	
PWR_VALVE	PWR_VALVE	PWR_VALVE	

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Лист 8		Лист 9	
HMDT1	HMDT1	HMDT1	ONOFF_TEMP
HMDT2	HMDT2	HMDT2	
PWR_HMDT	PWR_HMDT	PWR_HMDT	
VALVE_On/Off	VALVE_On/Off	VALVE_On/Off	
PWR_VALVE	PWR_VALVE	PWR_VALVE	

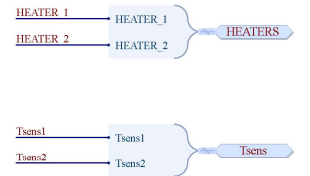
Лист 2		Лист 7	
DWN_KEY	HEATERS	HEATERS	HEAT CONT
MD_KEY			VENT
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MD_KEY	IN_MD_KEY	IN_MD_KEY	HEAT CONT
DWN_KEY	IN_DWN_KEY	IN_DWN_KEY	
Лист 8		Лист 9	
HMDT1	HMDT1	HMDT1	ONOFF_TEMP
HMDT2	HMDT2	HMDT2	
PWR_HMDT	PWR_HMDT	PWR_HMDT	
VALVE_On/Off	VALVE_On/Off	VALVE_On/Off	
PWR_VALVE	PWR_VALVE	PWR_VALVE	

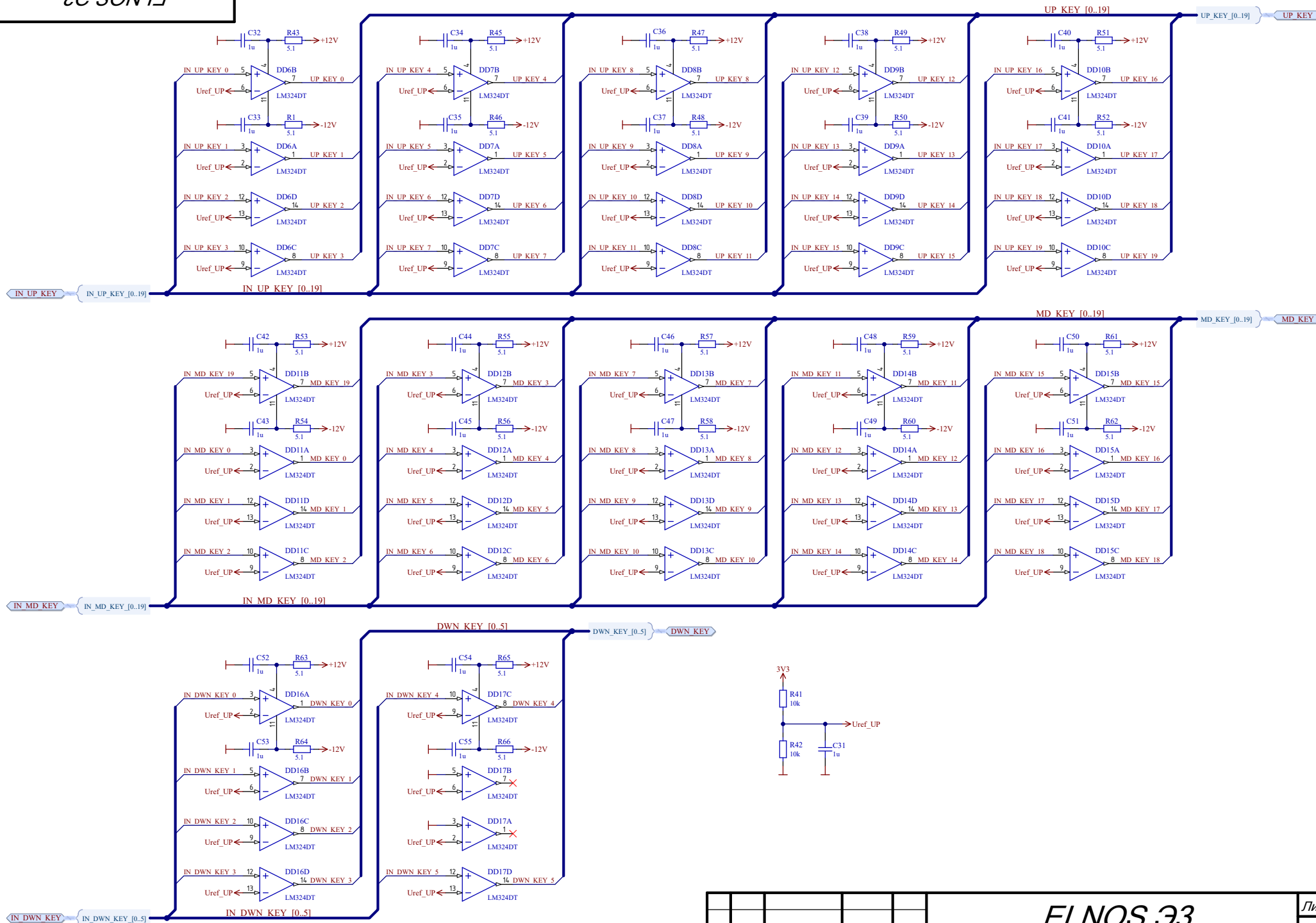
Лист 2		Лист 7	
DWN_KEY	HEATERS	HEATERS	HEAT CONT
MD_KEY			VENT
UP_KEY			
Tsens	Usnrl	Usnrl	ADC SPI
Лист 5		Лист 4	
Tsens	TEMP	TEMP	ADC SPI
Лист 3		Лист 6	
UP_KEY	IN_UP		



Верхняя сторона платы	B1	H2.2+
	B2	H2.1+
	B3	NC
	B4	T2.1+
	B5	T2.2+
	B6	NC
	B7	39
	B8	37
	B9	35
	B10	33
	B11	31
	B12	29
	B13	27
	B14	25
	B15	23
	B16	21
	B17	19
	B18	17
	B19	15
	B20	13
	B21	11
	B22	9
	B23	7
	B24	5
	B25	3
	B26	1
	B27	NC
	B28	T1.2+
	B29	T1.1+
	B30	NC
	B31	H1.1+
	B32	H1.2+
Нижняя сторона платы	A1	T2.2-
	A2	T2.1-
	A3	NC
	A4	H2.2-
	A5	H2.1-
	A6	NC
	A7	38
	A8	36
	A9	34
	A10	32
	A11	30
	A12	28
	A13	26
	A14	24
	A15	22
	A16	20
	A17	18
	A18	16
	A19	14
	A20	12
	A21	10
	A22	8
	A23	6
	A24	4
	A25	2
	A26	NC
	A27	NC
	A28	H1.2-
	A29	H1.1-
	A30	NC
	A31	T1.1-
	A32	T1.2-

Контрольные точки	Имя цепи
A1	GND
A2	+12V
A3	+5V
A4	+3V3
A5	GND_Heater
A6	+Usens
A7	Utemp
A8	-12V
A9	Usns
A10	Uinapp
A11	TEMP0
A12	Tsens1
A13	-
A14	UTsens12
A15	TEMP1
A16	-
A17	Tsens2
A18	-
A19	UTsens22
A20	TEMP2
A21	+5VHeat
A22	HEATER_1
A23	HEATER_2
A24	Usgnl
A25	Uref





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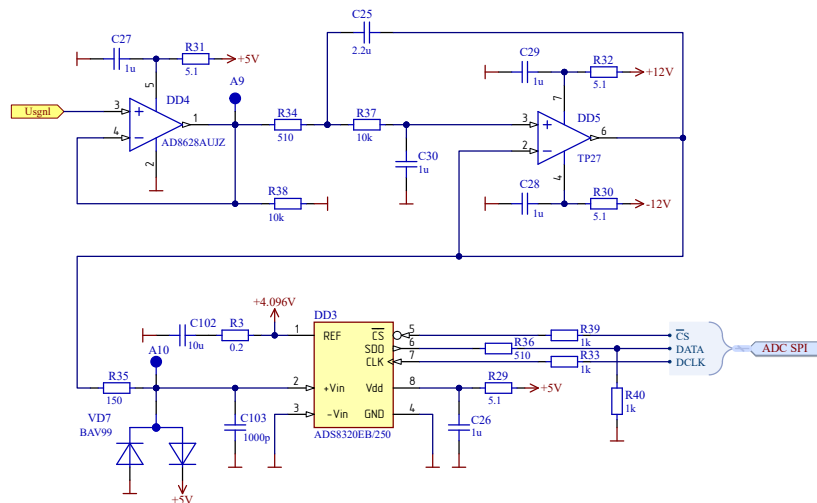
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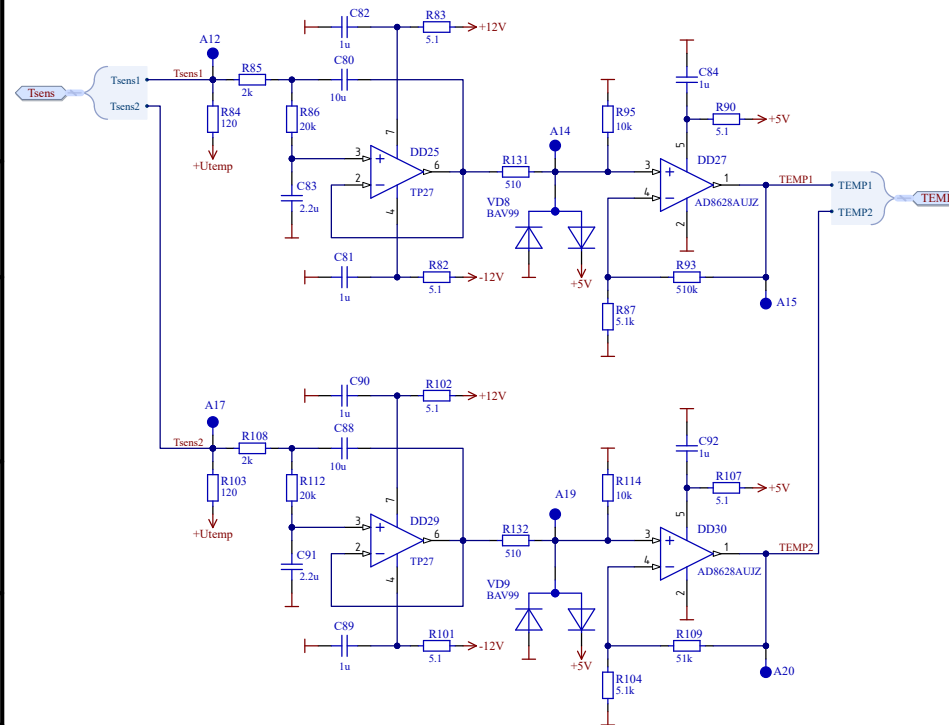
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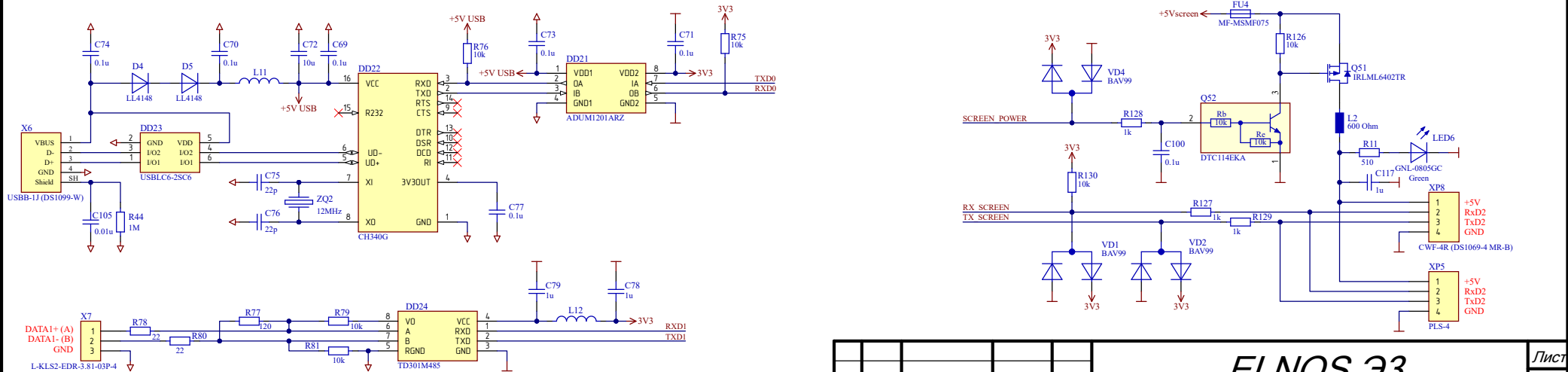
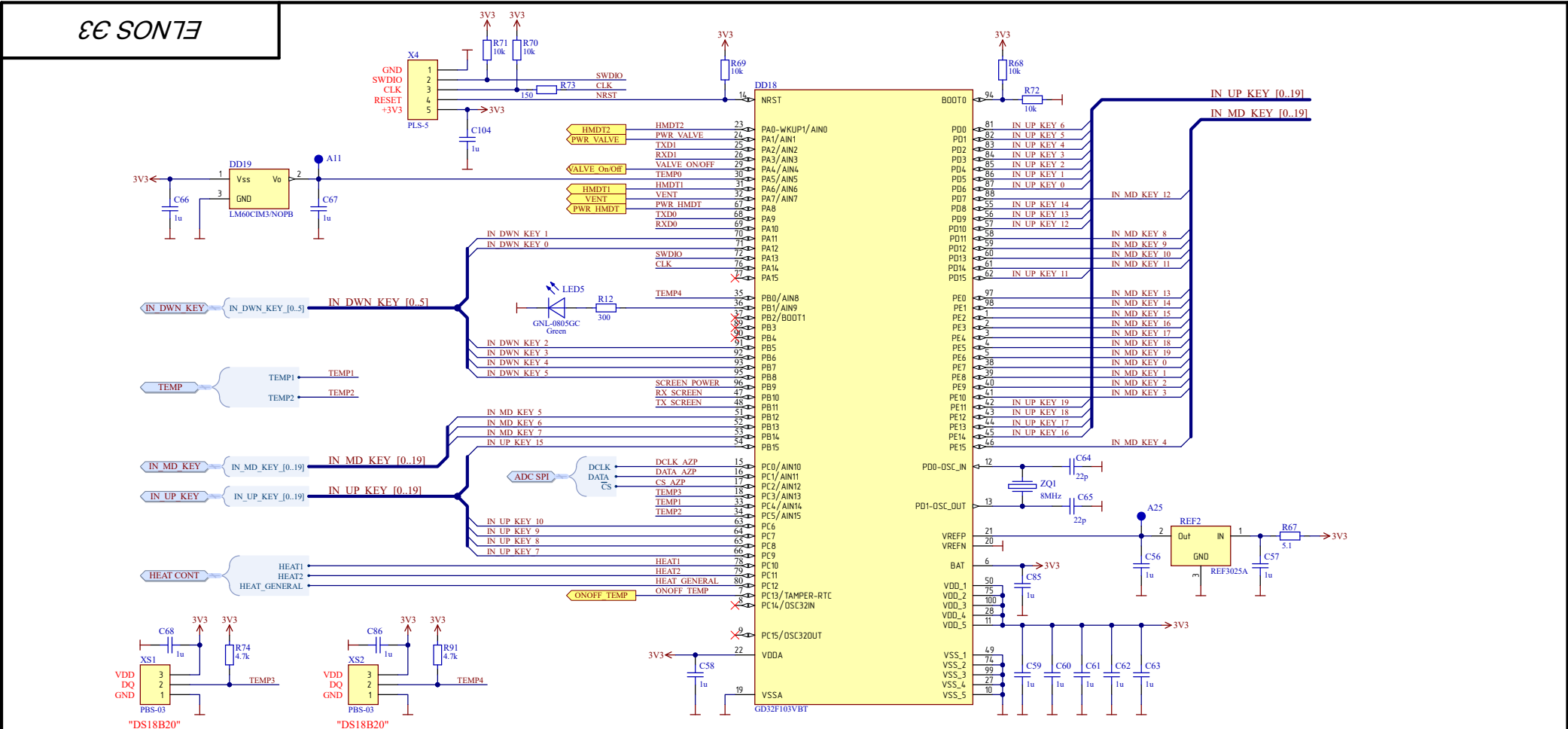
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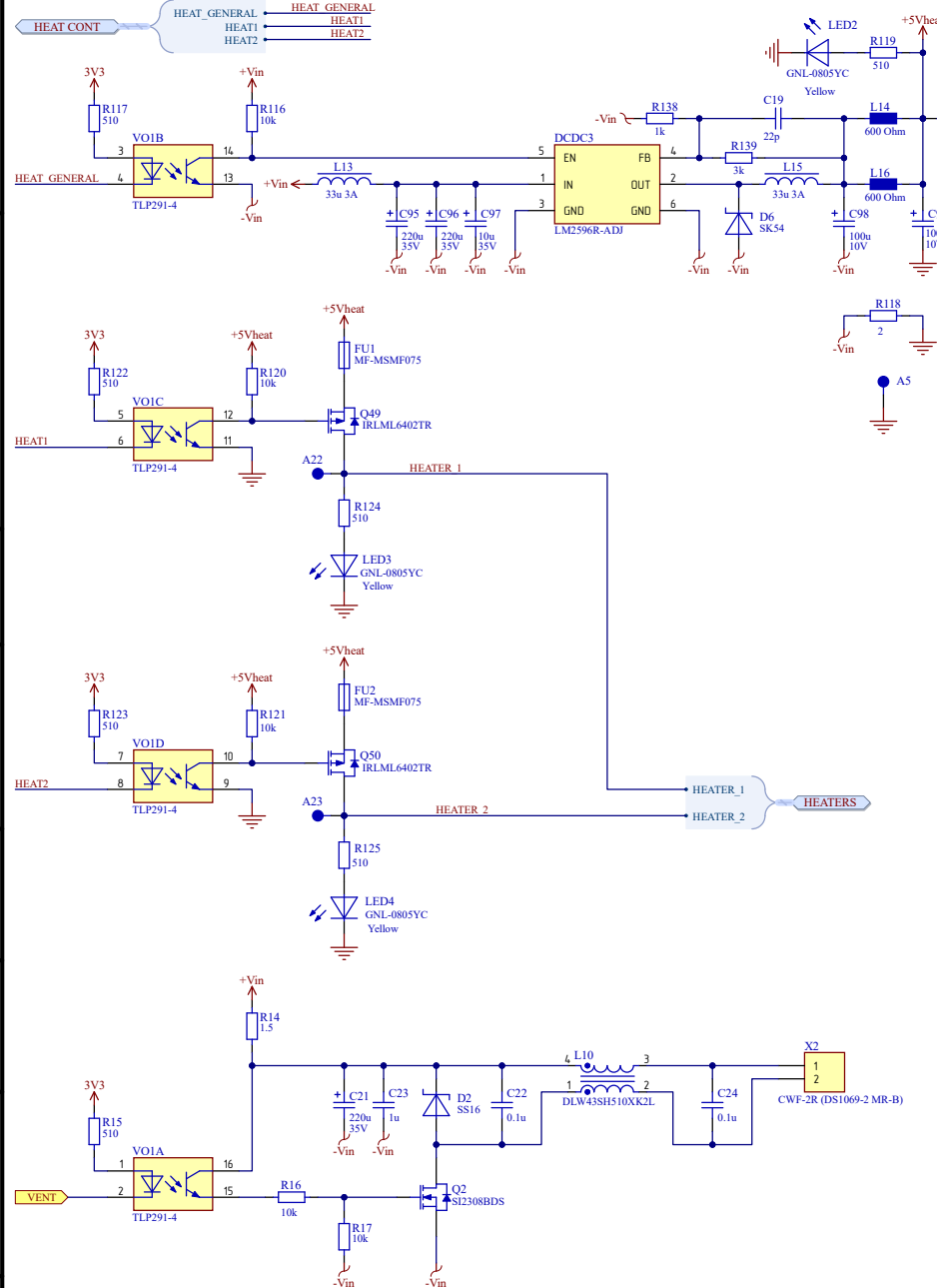
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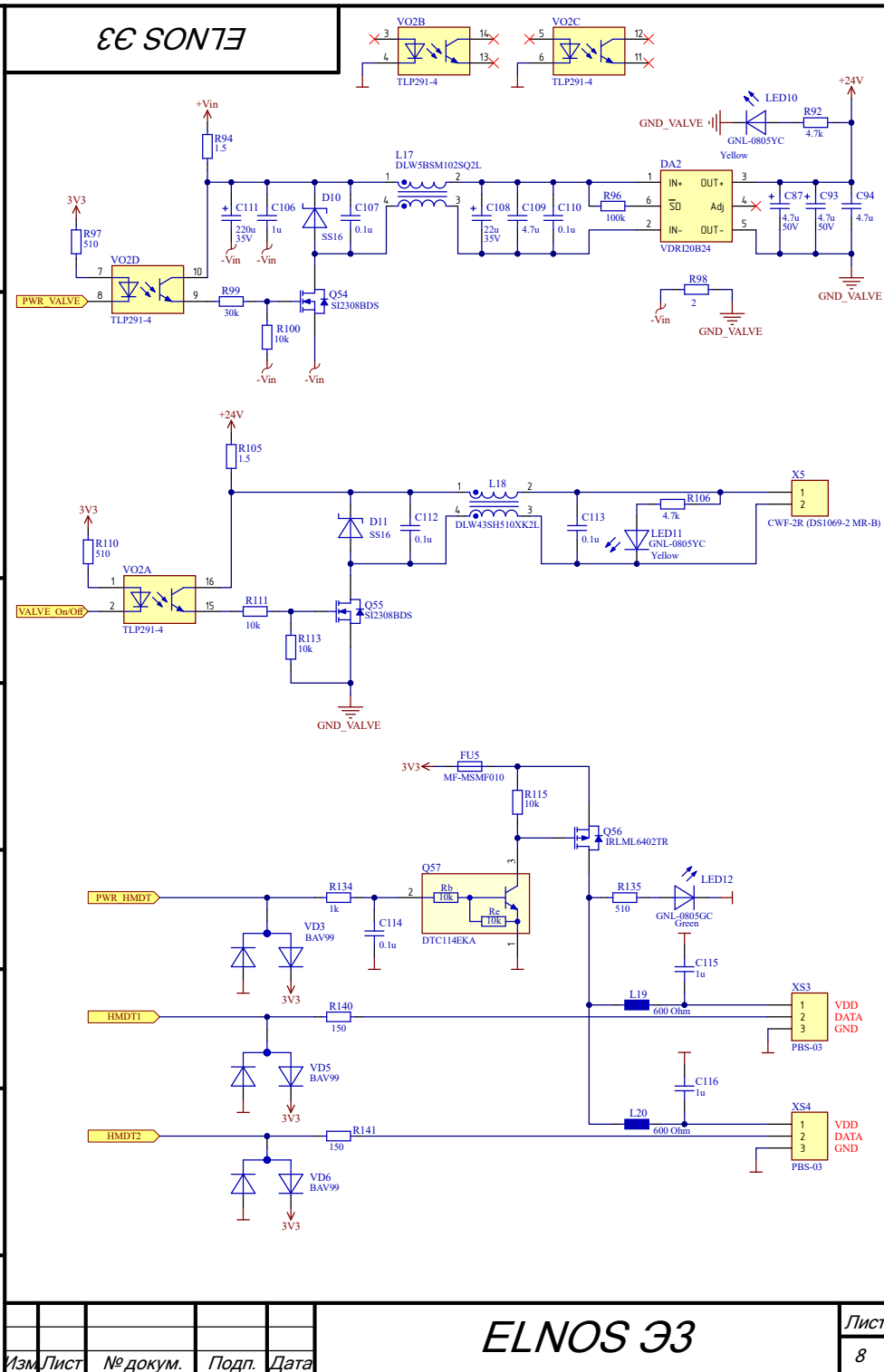
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Взам. инв. №

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Инв. № подл.







Перв. примен.

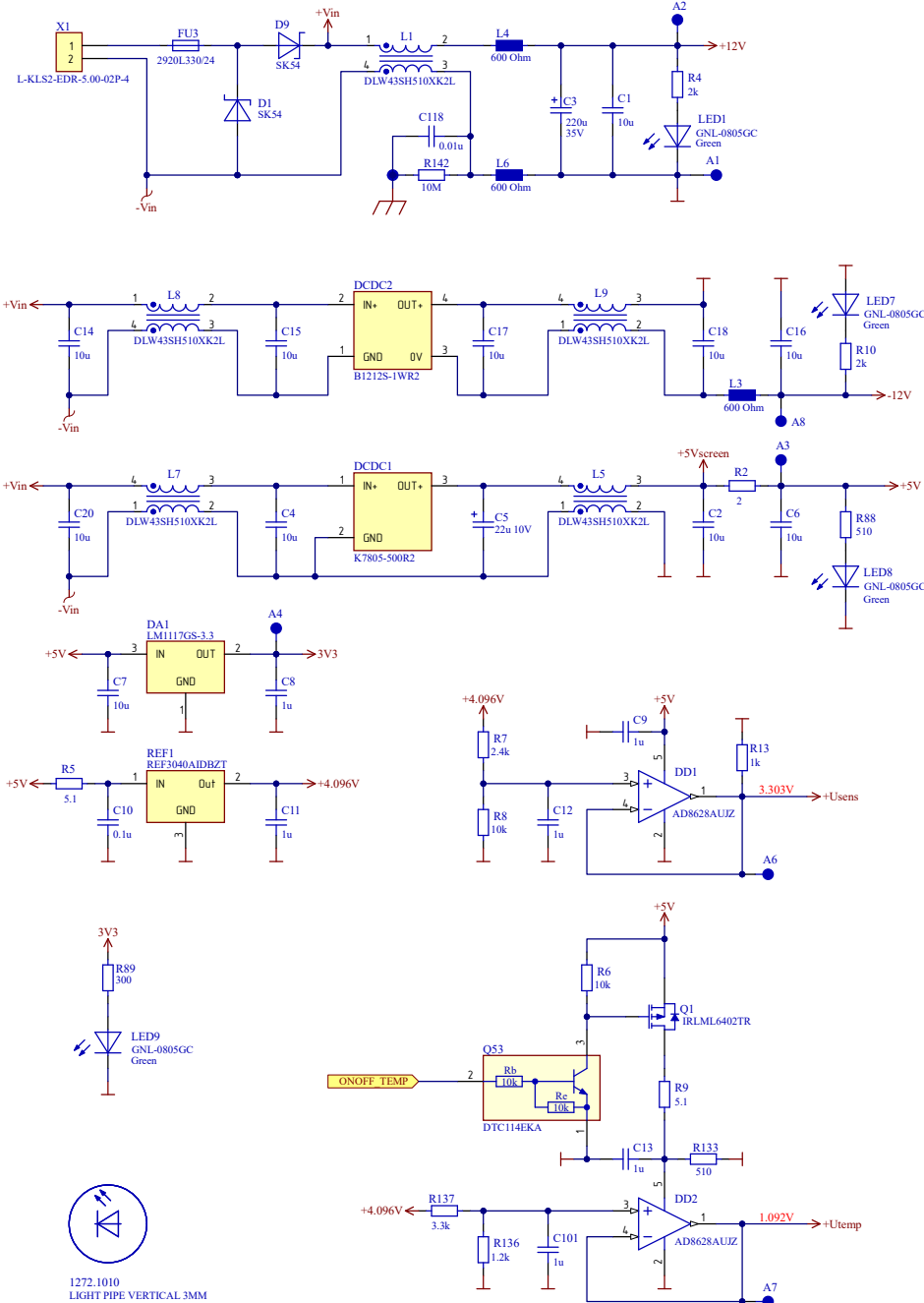
Спроб. №

Подп. и дата

Взам. инв. №

Подп. и дата

Инв. № подл.



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LIGHT PIPE VERTICAL 3MM