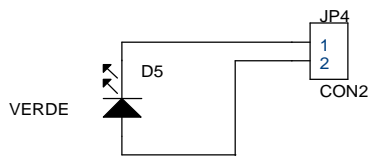
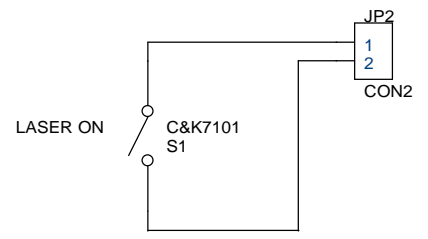


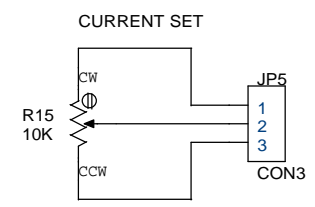
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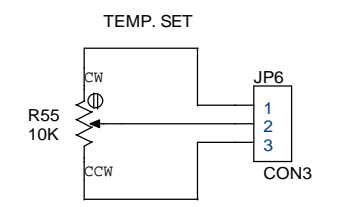
B



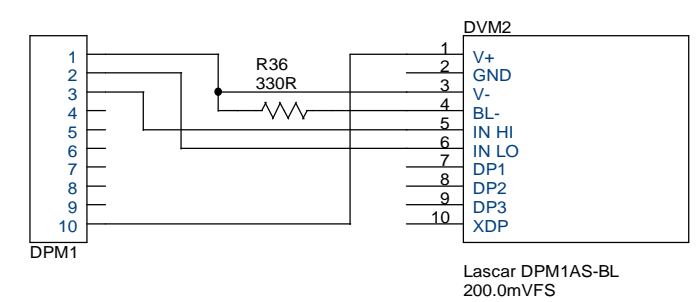
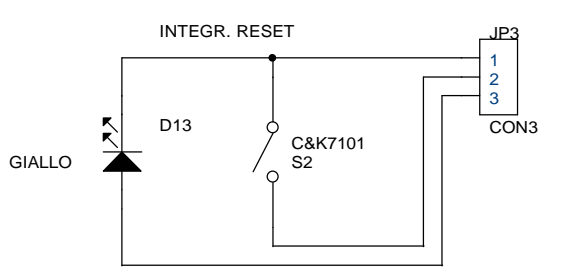
C



D



E



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A

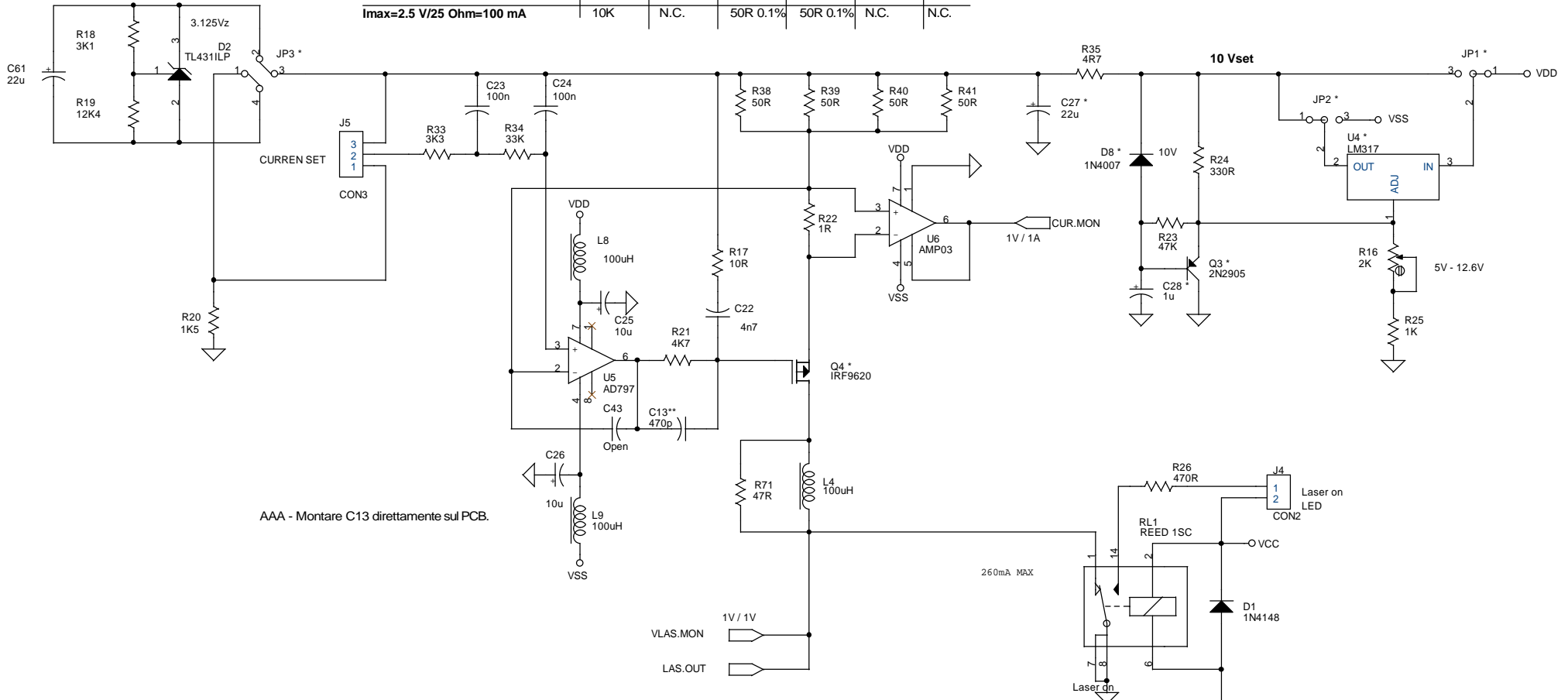
B

C

D

E

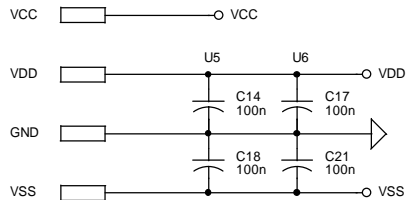
	R18	R19	R38	R39	R40	R41
$I_{max}=3.125 \text{ V}/12.5 \text{ Ohm}=250 \text{ mA}$	3K 0.1%	12K 0.1%	50R 0.1%	50R 0.1%	50R 0.1%	50R 0.1%
$I_{max}=2.5 \text{ V}/25 \text{ Ohm}=100 \text{ mA}$	10K	N.C.	50R 0.1%	50R 0.1%	N.C.	N.C.



AAA - Montare C13 direttamente sul PCB.

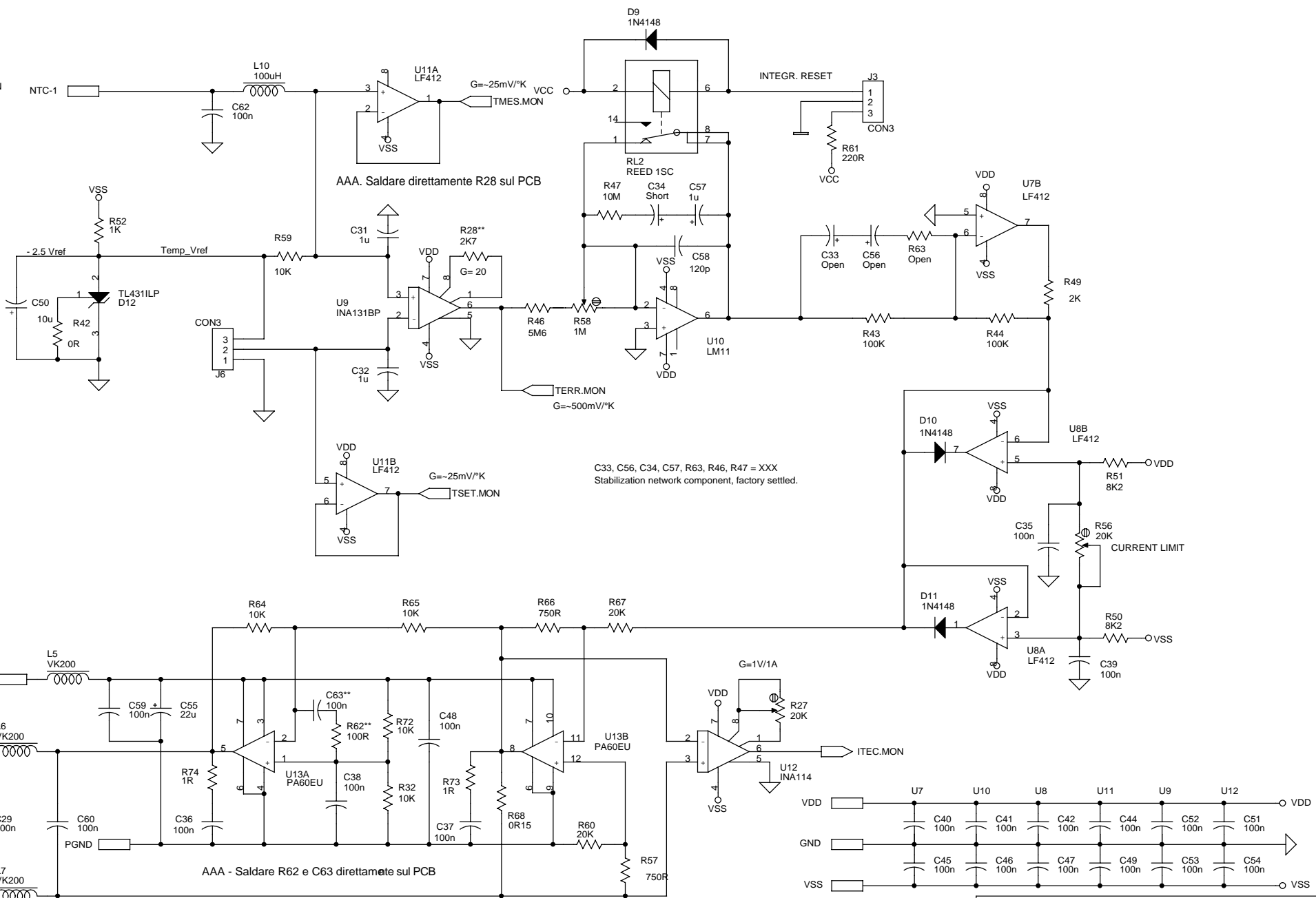
* Vedi tabella di configurazione:

LASER	K-GROUND	A-GROUND
JP1	1-2	2-3
JP2	1-2	2-3
JP3	1-4, 3-2	1-2, 3-4
U4	LM317	LM337
Q3	2N2905	2N1711
Q4	IRF9620	IRF510
D8	NORMAL	REVERSE
C27	NORMAL	REVERSE
C28	NORMAL	REVERSE



LENS -UNIVERSITA' DI FIRENZE-		
LARGO E.FERMI, 2 50125 FIRENZE		
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TERMISTOR IN
10 KOhm @
25°C



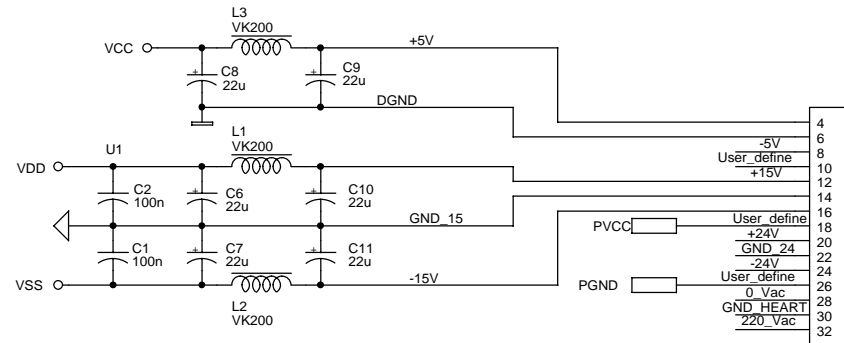
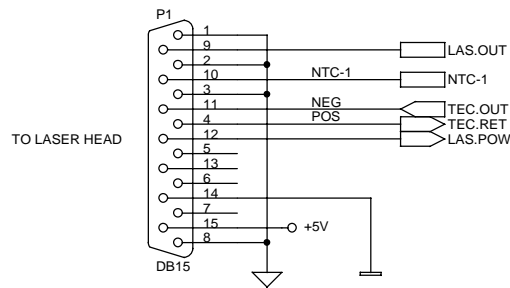
AAA. Saldare direttamente R28 sul PCB

AAA - Saldare R62 e C63 direttamente sul PCB

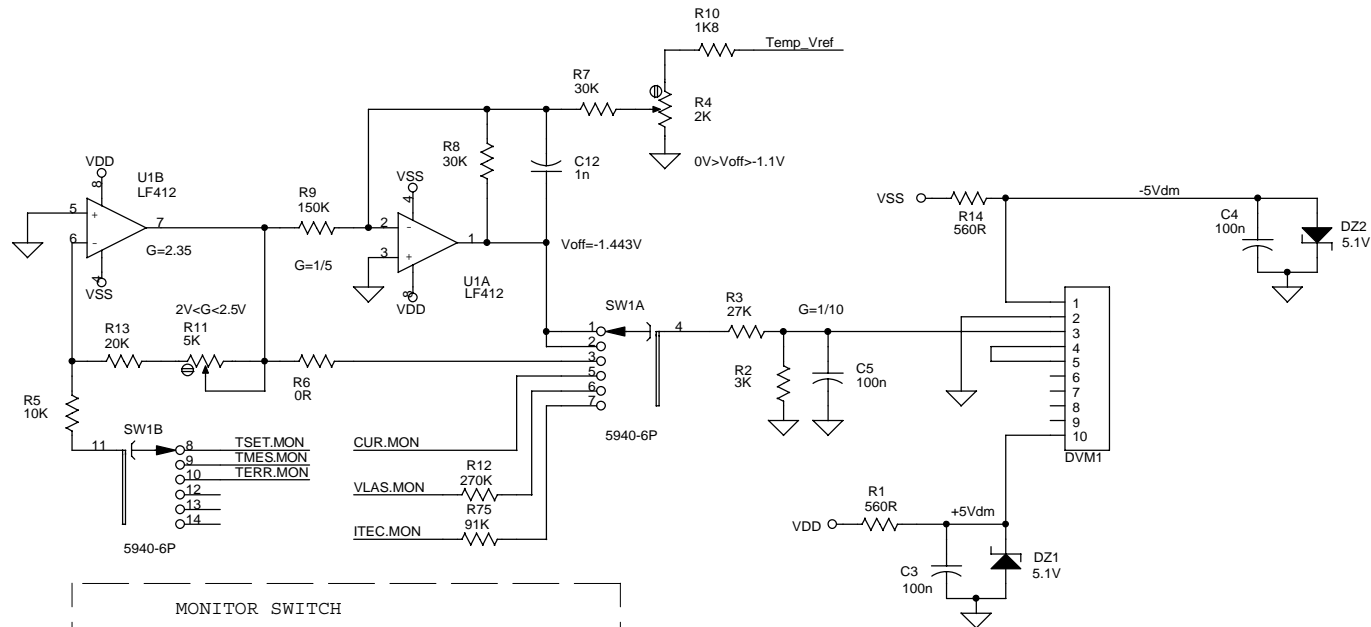
C33, C56, C34, C57, R63, R46, R47 = XXX
Stabilization network component, factory settled.

LENS - UNIVERSITA' DI FIRENZE - LARGO E. FERMI, 2 50125 FIRENZE			
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**AAA. RIFERIMENTO PCB LASERDR21.BRD
(LASERDRV.BRD Rev.02)**



AAA - Modifiche al PCB:
Disconnettere (tagliando la pista) R10 dal PIN1-DVM1
(-5Vdm), e connetterlo al PIN3-J6 (Temp_Vref).



MONITOR SWITCH			
Position	Signal	Sensitivity	Attenuaz.
1	TSET.MON	1°C/1mV	50
2	TMES.MON	1°C/1mV	50
3	TERR.MON	10m°C/1mV	10
4	CUR.MON	1mA/1mV	10
5	VLAS.MON	100mV/1mV	100
6	IPLT.MON	10mA/1mV	10

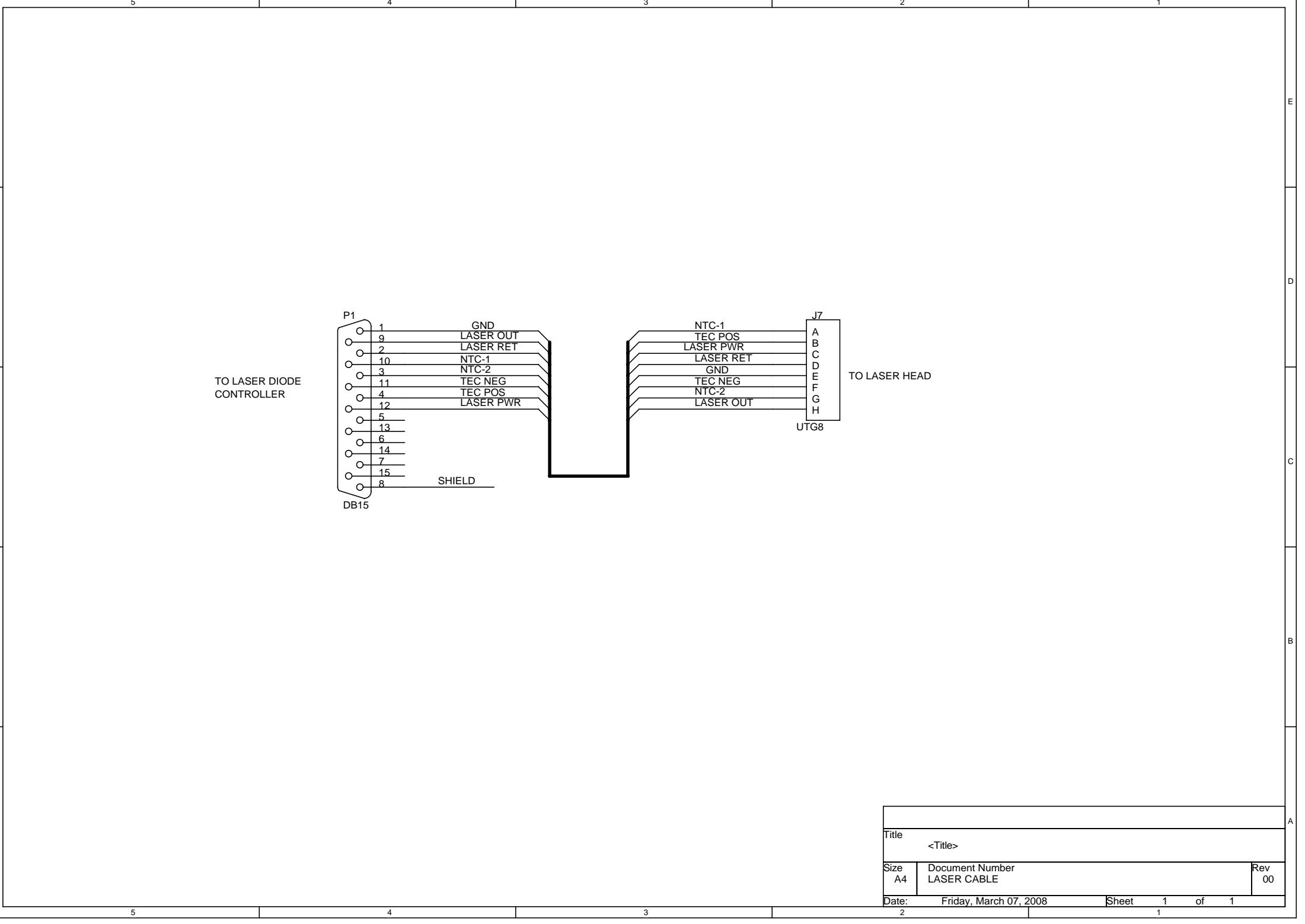
1: FRONTPANEL Revised: Monday, March 14, 2011
 2: FRONT_PANEL.SCH Revision: 00
 3:
 4: LENS - University of Florence -
 5: Largo E. Fermi, 2
 6:
 7:
 8:
 9:

10: Bill Of Materials March 14,2011 13:21:25 Page1

11:	12:	Quantity	Reference	Description	Supplier Ref	Value
13:	<hr/>					
14:						
15:	1	34	C1,C2,C3,C4,C5,C14,C17,	Cond. Cer. 50V	/	100n
16:			C18,C21,C23,C24,C29,C35,			
17:			C36,C37,C38,C39,C40,C41,			
18:			C42,C44,C45,C46,C47,C48,			
19:			C49,C51,C52,C53,C54,C59,			
20:			C60,C62,C63**			
21:	2	10	C6,C7,C8,C9,C10,C11,	Cond. Tant. 25V	/	22u
22:			C27 *,C30,C55,C61			
23:	3	1	C12	Cond. Cer. 50V	/	1n
24:	4	1	C13**	Cond. Cer. 50V	/	470p
25:	5	1	C22	Cond. Cer. 50V	/	4n7
26:	6	3	C25,C26,C50	Cond. Tant. 25V	/	10u
27:	7	1	C28 *	Cond. Tant. 25V	/	1u
28:	8	2	C31,C32	Cond. Cer. 50V	/	1u
29:	9	2	C33,C56	Cond. Tant. 25V	/	Open
30:	10	1	C34	Cond. Tant. 25V	/	Short
31:	11	1	C43	Cond. Cer. 50V	/	Open
32:	12	1	C57	Cond. Poly. 63V	/	1u
33:	13	1	C58	Cond. Cer. 50V	/	120p
34:	14	1	DPM1	Connettore F. passo 2.54	/	CON10
35:	15	1	DVM1	Connettore M. passo 2.54	/	CON10
36:	16	1	DVM2	Digital Panel Meter	RS 419-9328	Lascar DPM1AS-BL
37:	17	2	DZ2,DZ1	Diodo Zener 0.5W	/	5.1V
38:	18	4	D1,D9,D10,D11	Diodo	/	1N4148
39:	19	2	D2,D12	Voltage Reference	/	TL431ILP
40:	20	1	D5	Diodo LED 3mm	/	VERDE
41:	21	3	D6,D7,D8 *	Diodo	/	1N4007
42:	22	1	D13	Diodo LED 3mm	/	GIALLO
43:	23	2	JP2 *,JP1 *	Jumper	/	JUMP-0
44:	24	2	JP2,JP4	Connettore F. passo 2.54	/	CON2
45:	25	3	JP3,JP5,JP6	Connettore F. passo 2.54	/	CON3
46:	26	1	JP3 *	Jumper	/	JUMP-X

47:	27	1	J1	Connettore M. DIN41612_H15	Harting	0906-115-2911
48:	28	2	J2,J4	Connettore M. passo 2.54	/	CON2
49:	29	3	J3,J5,J6	Connettore M. passo 2.54	/	CON3
50:	30	6	L1,L2,L3,L5,L6,L7	Induttanza	/	VK200
51:	31	4	L4,L8,L9,L10	Induttanza	RS 191-1147	100uH
52:	32	1	P1	Connettore Tipo D F. da PCB	/	DB15
53:	33	1	Q2	Transistor	/	IRFD110
54:	34	1	Q3 *	Transistor	RS 295-208	2N2905
55:	35	1	Q4 *	Transistor	/	IRF9620
56:	36	2	RL1,RL2	Rele REED 5V	RS 291-9704	REED 1SC
57:	37	2	R14,R1	Res. 0.25W 1%	/	560R
58:	38	1	R2	Res. 0.25W 1%	/	3K
59:	39	1	R3	Res. 0.25W 1%	/	27K
60:	40	2	R16,R4	Trim. Vert. 10G.	/	2K
61:	41	6	R5,R32,R42,R64,R65,R72	Res. 0.25W 1%	/	10K
62:	42	1	R6	Res. 0.25W 1%	/	0R
63:	43	2	R7,R8	Res. 0.25W 1%	/	30K
64:	44	1	R9	Res. 0.25W 1%	/	150K
65:	45	2	R33,R10	Res. 0.25W 1%	/	3K3
66:	46	1	R11	Trim. Vert. 10G.	/	5K
67:	47	1	R12	Res. 0.25W 1%	/	270K
68:	48	3	R13,R60,R67	Res. 0.25W 1%	/	20K
69:	49	2	R55,R15	Pot. a filo 10G.	/	10K
70:	50	1	R17	Res. 0.25W 1%	/	10R
71:	51	1	R18	Res. 0.25W 0.1%	RS 166-223	3K1
72:	52	1	R19	Res. 0.25W 0.1%	Farnell 950-0162	12K4
73:	53	1	R20	Res. 0.25W 1%	/	1K5
74:	54	1	R21	Res. 0.25W 1%	/	4K7
75:	55	1	R22	Res. 0.25W 0.1%	/	1R
76:	56	1	R23	Res. 0.25W 1%	/	47K
77:	57	2	R36,R24	Res. 0.25W 1%	/	330R
78:	58	4	R25,R29,R30,R52	Res. 0.25W 1%	/	1K
79:	59	1	R26	Res. 0.25W 1%	/	470R
80:	60	1	R27	Trim. Vert. 10G.	/	20K
81:	61	1	R28**	Res. 0.25W 1%	/	2K7
82:	62	3	R31,R43,R44	Res. 0.25W 1%	/	100K
83:	63	1	R34	Res. 0.25W 1%	/	33K
84:	64	1	R35	Res. 0.5W 1%	/	4R7
85:	65	4	R38,R39,R40,R41	Res. 0.5W 0.1%	RS 217-3166	50R
86:	66	1	R46	Res. 0.25W 1%	/	5M6
87:	67	1	R47	Res. 0.25W 1%	/	10M
88:	68	1	R49	Res. 0.25W 1%	/	2K
89:	69	2	R51,R50	Res. 0.25W 1%	/	8K2
90:	70	1	R56	Trim. Oriz. 10G.	/	20K
91:	71	2	R57,R66	Res. 0.25W 1%	/	750R
92:	72	1	R58	Trim. Vert. 10G.	/	1M

93:	73	1	R59	Res. 0.25W 0.1%	RS 166-728	10K
94:	74	1	R61	Res. 0.25W 1%	/	220R
95:	75	1	R62**	Res. 0.25W 1%	RS 223-0297	100R
96:	76	1	R63	Res. 0.25W 1%	/	Open
97:	77	1	R68	Res. 0.25W 1%	/	0R15
98:	78	1	R71	Res. 0.25W 1%	/	47R
99:	79	2	R73,R74	Res. 0.25W 1%	/	1R
100:	80	1	R75	Res. 0.25W 1%	/	91K
101:	82	1	SW1	Rot. Switch 2vie 6posiz.	FEME	5940-6P
102:	83	2	S1,S2	Deviatore a levetta	/	C&K7101
103:	84	4	U1,U7,U8,U11	Circ. Integr.	/	LF412
104:	85	1	U4 *	Circ. Integr.	/	LM317
105:	86	1	U5	Circ. Integr.	RS 522-8427	AD797
106:	87	1	U6	Circ. Integr.	/	AMP03
107:	88	1	U9	Circ. Integr.	/	INA131BP
108:	89	1	U10	Circ. Integr.	/	LM11
109:	90	1	U12	Circ. Integr.	RS 311-524	INA114
110:	91	1	U13	Circ. Integr.	APEX	PA60EU
111:						



Title		
<Title>		
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A4	LASER CABLE	00
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