
TEX150-LCD



User Manual Volume 2: Technical Appendix

Appendix A Piani di montaggio, schemi elettrici, liste componenti / *Component layouts, schematics, bills of material*

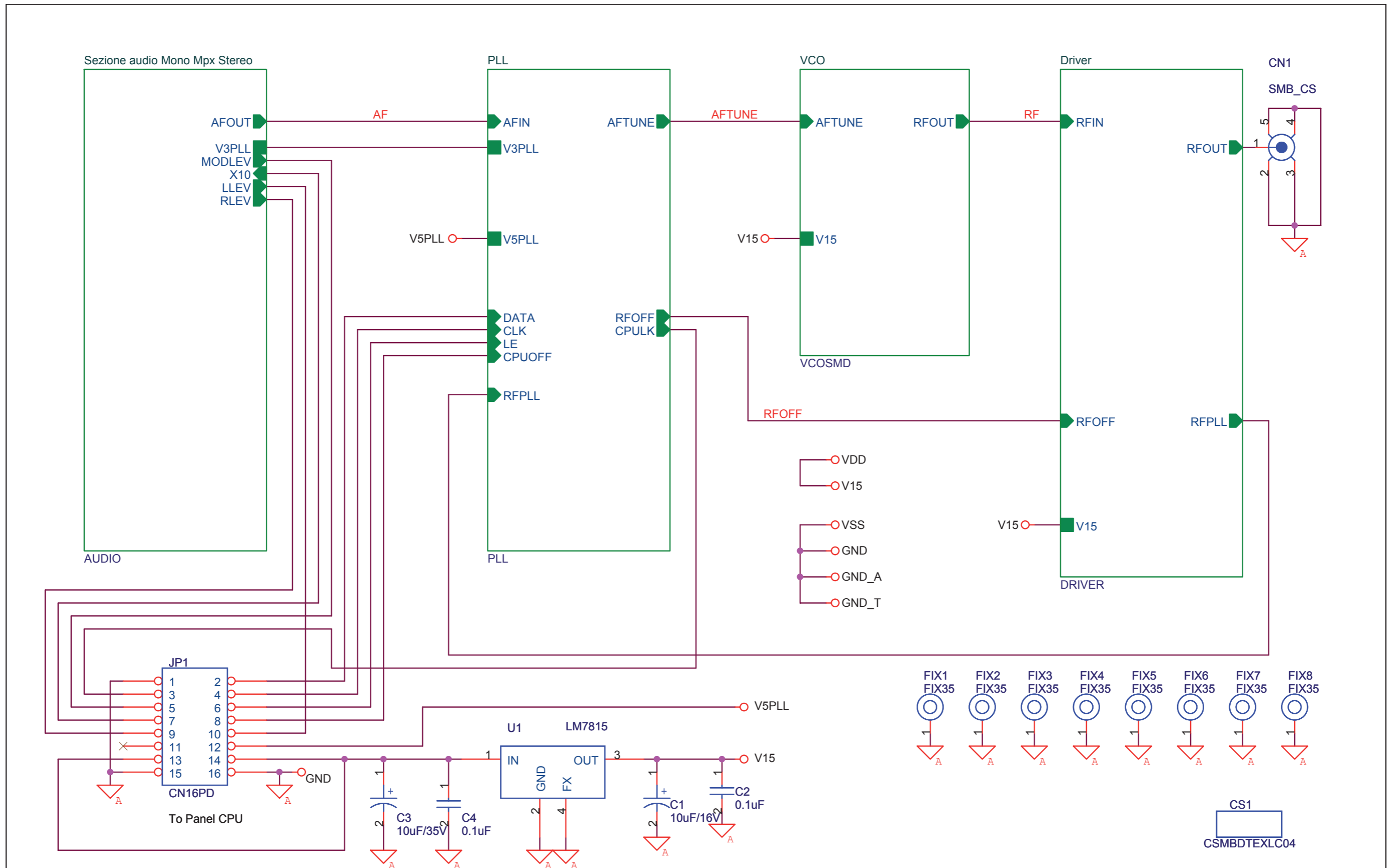
Questa parte del manuale contiene i dettagli tecnici riguardanti la costruzione delle singole schede componenti il TEX150-LCD. L'appendice è composta dalle seguenti sezioni:

This part of the manual contains the technical details about the different boards of the TEX150-LCD. This appendix is composed of the following sections:

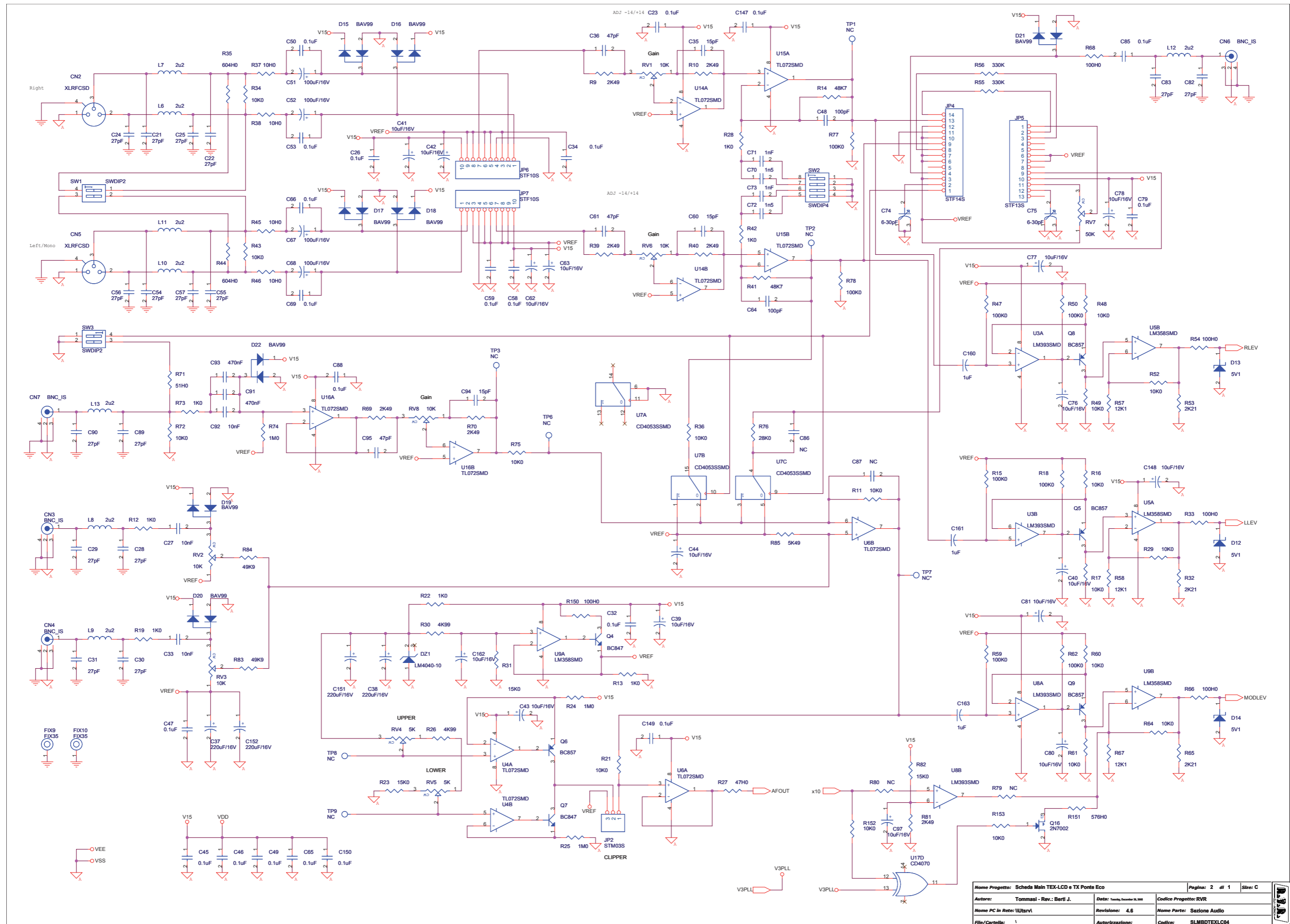
Description	RVR Code	Vers. Page	
Wiring Diagrams	KCABTEX150LCD	/	/
Main Board	SLMBDTEXLC04	4.6	1
Control Card	SLCNTMOS03	1.4	8
Power Amplifier	SLPA150WMOS02	1.1	11
Panel Card	SL007PC2001A	1.4	13
Power Supply	PSL300	1.0	16
Telemetry Card	SLTLMTXLCD03	2.0	23

Document History

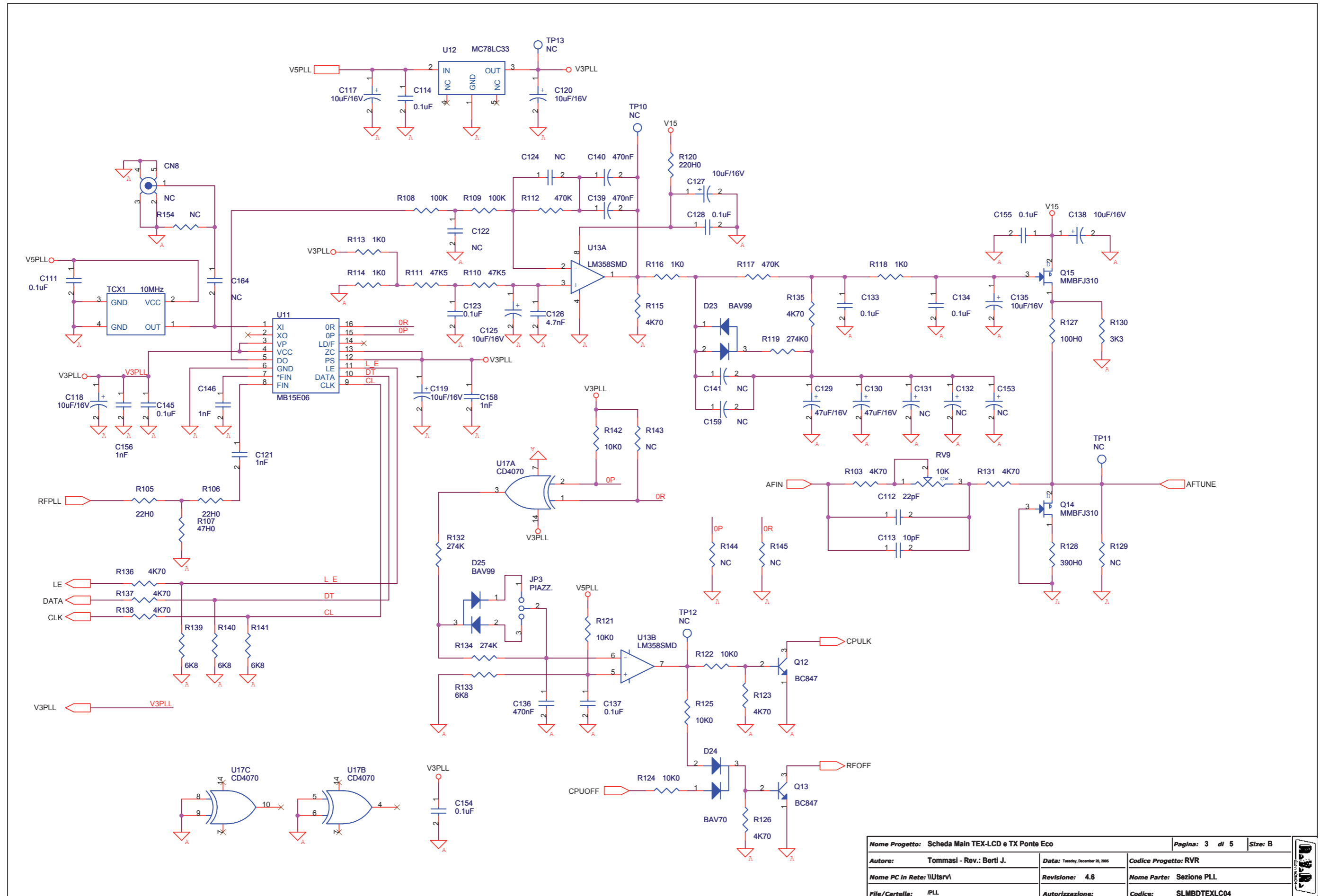
Date	Version	Reason	Code	Editor
29/11/04	1.0	First Release	N.D.	J.H. Berti
24/01/06	1.1	SL007PC2001A & SLMBDTEXLC04 upgraded	RM1405/RM2505	J.H. Berti



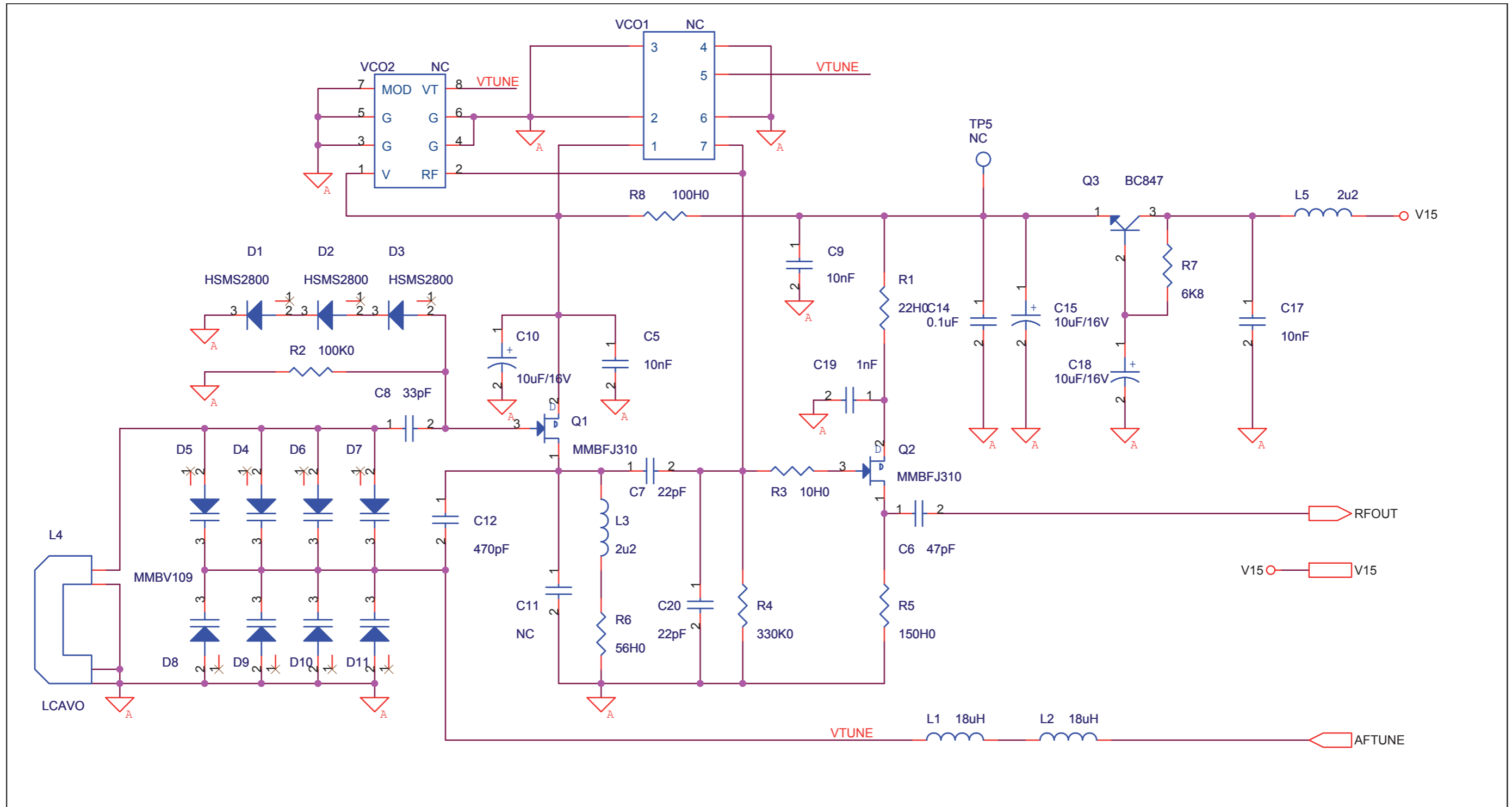
Nome Progetto: Scheda Main TEX-LCD e TX Ponte Eco Versione VCO a Fet		Pagina: 1 di 5	Size: Custom
Autore: Tommasi - Rev.: Berti J.	Data: Tuesday, December 20, 2005	Codice Progetto: RVR	
Nome PC in Rete: \\Utsrv\	Revisione: 4.6	Nome Parte: Scheda Main	
File/Cartella: /	Autorizzazione:	Codice: SLMBDTEXLC04	



Nome Progetto: Scheda Main TEX-LCD e TX Ponte Eco	Pagina: 2 di 1	Size: C
Autore: Tommasi - Rev.: Barti J.	Data: Tuesday, December 13, 2005	Codice Progetto: RVR
Nome PC in Rete: WUtrv1	Revisione: 4.6	Nome Parte: Sezione Audio
File/Cartella: 1	Autore/Revisione:	Codice: SLMBDTEXLC04



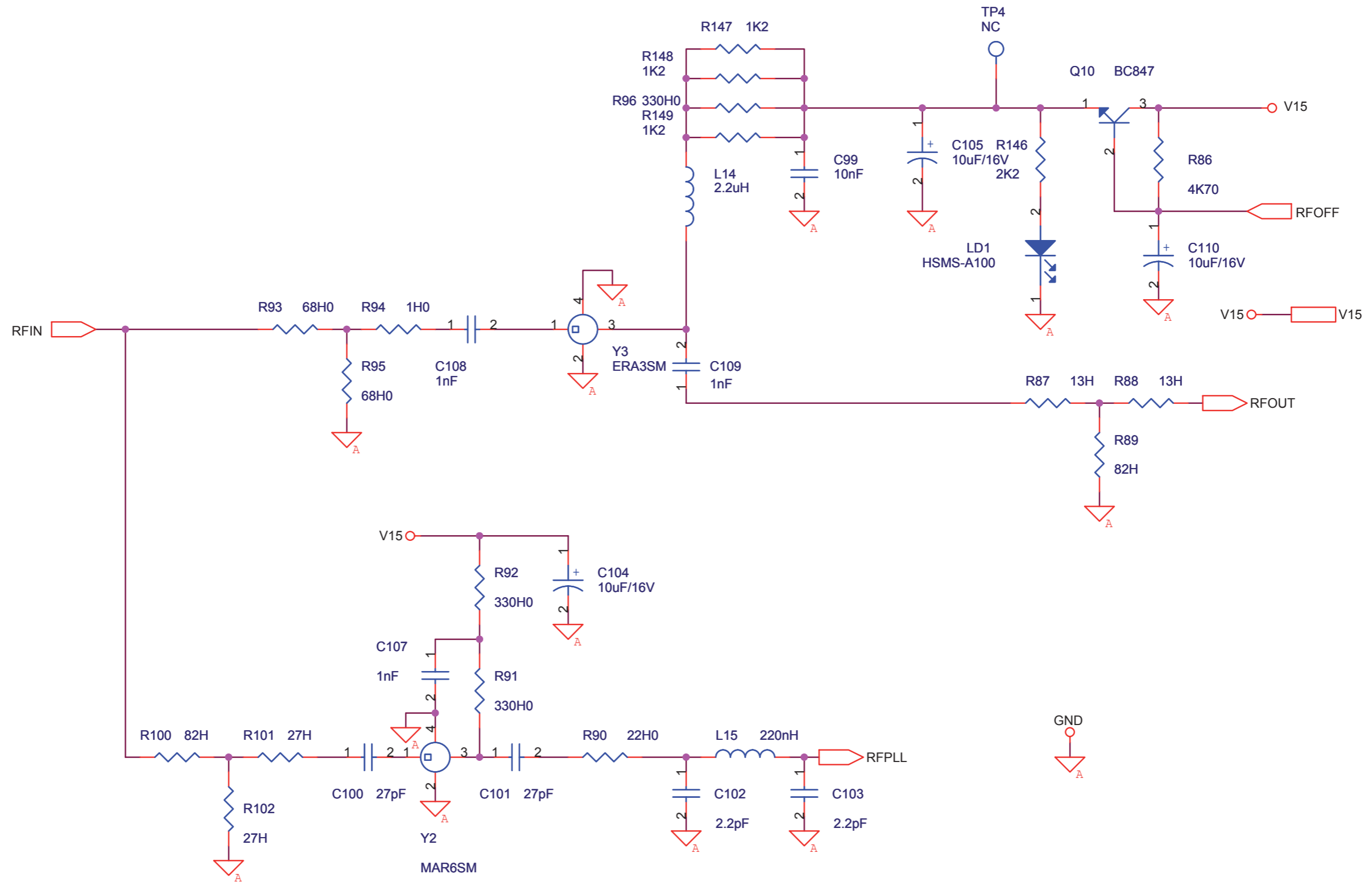
Nome Progetto: Scheda Main TEX-LCD e TX Ponte Eco		Pagina: 3 di 5	Size: B
Autore: Tommasi - Rev.: Berti J.	Data: Tuesday, December 20, 2005	Codice Progetto: RVR	
Nome PC in Rete: \\Utsrv\	Revisione: 4,6	Nome Parte: Sezione PLL	
File/Cartella: /PLL	Autorizzazione:	Codice: SLMBDTEXLC04	



Il cavo e' montato lato saldature

Nome Progetto: Scheda Main TEX-LCD e TX Ponte Eco		Pagina: 4 di 5	Size: A
Autore: Tommasi - Rev.: Berti J.	Data: Tuesday, December 20, 2005	Codice Progetto: RVR	
Nome PC in Rete: \\Utsrv\	Revisione: 4.6	Nome Parte: Sezione VCO	
File/Cartella: NCO	Autorizzazione:	Codice: SLMBDTEXLC04	





Nome Progetto: Scheda Main TEX-LCD e TX Ponte Eco		Pagina: 5 di 5	Size: A
Autore: Tommasi - Rev.: Berti J.	Data: Tuesday, December 20, 2005	Codice Progetto: RVR	
Nome PC in Rete: \\Utsrv\	Revisione: 4.6	Nome Parte: Sezione Driver	
File/Cartella: \	Autorizzazione:	Codice: SLMBDTEXLC04	

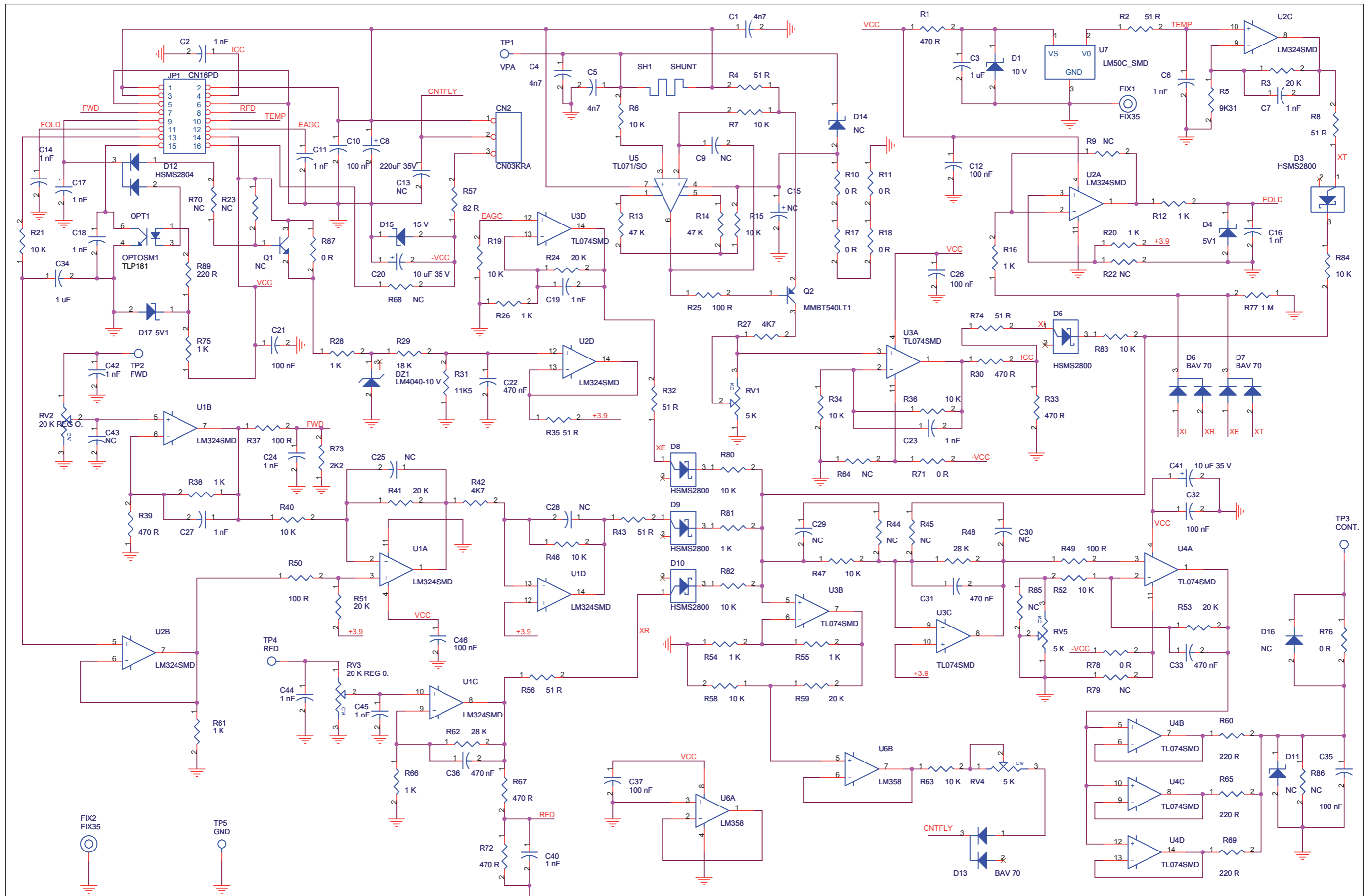
Scheda Main
SLMBDTEXLC04
Revision: 4.6 Date: 20/12/2005
Tommasi - Rev.: Berti J.

Item	Quantity	Reference	Part	Description
1	1	CN1	SMB_CS	Connettore SMB cs
2	2	CN2,CN5	XLRFCSD	Connettore XLR femm. cs
3	4	CN3,CN4,CN6,CN7	BNC_IS	Connettore BNC metallico
4	1	CN8	NC	Connettore SMB cs
5	1	CS1	CSMBDTEXLC04	Circuito stampato
6	30	C1,C10,C15,C18,C39,C40,C41,C42,C43,C44,C62,C63,C76,C77,C78,C80,C81,C97,C104,C105,C110,C117,C118,C119,C120,C125,C127,C138,C148,C162	10uF/16V	Cond. Elett. SMD d. 4mm
7	34	C2,C4,C14,C23,C26,C32,C34,C45,C46,C47,C49,C50,C53,C58,C59,C65,C66,C69,C79,C85,C88,C111,C114,C123,C128,C133,C134,C137,C145,C147,C149,C150,C154,C155	0.1uF	Cond. SMD 0805
8	1	C3	10uF/35V	Cond. Elett. SMD d. 4mm
9	7	C5,C9,C17,C27,C33,C92,C99	10nF	Cond. SMD 0805
10	4	C6,C36,C61,C95	47pF	Cond. SMD 0805
11	3	C7,C20,C112	22pF	Cond. SMD 0805
12	1	C8	33pF	Cond. SMD 0805
13	6	C11,C86,C87,C122,C124,C164	NC	Cond. SMD 0805
14	1	C12	470pF	Cond. SMD 0805
15	8	C19,C107,C108,C109,C121,C146,C156,C158	1nF	Cond. SMD 0805
16	18	C21,C22,C24,C25,C28,C29	27pF	Cond. SMD 0805
36	8	D4,D5,D6,D7,D8,D9,D10,D11	MMBV109	Diodo Varicap SMD SOT23
37	3	D12,D13,D14	5V1	MINIMELF SMD Zener Diode
38	10	D15,D16,D17,D18,D19,D20,D21,D22,D23,D25	BAV99	Doppio Diodo SMD SOT23
39	1	D24	BAV70	Doppio Diodo SMD SOT23
40	10	FIX1,FIX2,FIX3,FIX4,FIX5,FIX6,FIX7,FIX8,FIX9,FIX10	FIX35	Foro fissaggio 3.5mm
41	1	JP1	CN16PD	Connettore 16 poli Flat cs
42	1	JP2	STM03S	Strip maschio 3 pin
43	1	JP3	PIAZZ.	Jumper SMD
44	1	JP4	STF14S	Strip femmina 14 pin
45	1	JP5	STF13S	Strip femmina 13 pin
46	2	JP6,JP7	STF10S	Strip femmina 10 pin
47	1	LD1	HSMS-A100	LED dia. 5mm
48	2	L1,L2	18uH	Induttanza SMD 1210 scherm.
49	10	L3,L5,L6,L7,L8,L9,L10,L11,L12,L13	2u2	Induttanza SMD 3225 (1210)
50	1	L4	LCAVO	Induttanza a cavo RG
51	1	L14	2.2uH	Induttanza SMD 3225 (1210)
52	1	L15	220nH	Induttanza SMD 3225 (1210)
53	4	Q1,Q2,Q14,Q15	MMBFJ310	Trans. FET SOT23
54	6	Q3,Q4,Q7,Q10,Q12,Q13	BC847	Trans. NPN SOT23
55	4	Q5,Q6,Q8,Q9	BC857	Trans. PNP SOT23
56	1	Q16	2N7002	Trans. FET SOT23
57	5	RV1,RV2,RV3,RV6,RV8	10K	Trimmer Rg H 3296X
58	2	RV4,RV5	5K	Trimmer Rg V 3296W
59	1	RV7	50K	Trimmer Rg V 3296W
60	1	RV9	10K	Trimmer Rg V 3296W
61	4	R1,R90,R105,R106	22H0	Res. SMD 0805
62	9	R2,R15,R18,R47,R50,R59,R62,R77,R78	100K0	Res. SMD 0805
63	5	R3,R37,R38,R45,R46	10H0	Res. SMD 0805
64	1	R4	330K0	Res. SMD 0805
65	1	R5	150H0	Res. SMD 0805
66	1	R6	56H0	Res. SMD 0805

83	7	R79,R80,R129,R143,R144,R145,R154	NC	Res. SMD 0805
84	2	R83,R84	49K9	Res. SMD 0805
85	1	R85	5K49	Res. SMD 0805
86	10	R86,R103,R115,R123,R126,R131,R135,R136,R137,R138	4K70	Res. SMD 0805
87	2	R87,R88	13H	Res. SMD 0805
88	2	R89,R100	82H	Res. SMD 0805
89	3	R91,R92,R96	330H0	Res. SMD 0805
90	2	R93,R95	68H0	Res. SMD 0805
91	1	R94	1H0	Res. SMD 0805
92	2	R101,R102	27H	Res. SMD 0805
93	2	R108,R109	100K	Res. SMD 0805
94	2	R110,R111	47K5	Res. SMD 0805
95	2	R112,R117	470K	Res. SMD 0805
96	1	R119	274K0	Res. SMD 0805
97	1	R120	220H0	Res. SMD 0805
98	1	R128	390H0	Res. SMD 0805
99	1	R130	3K3	Res. SMD 0805
100	2	R132,R134	274K	Res. SMD 0805
101	1	R146	2K2	Res. SMD 0805
102	3	R147,R148,R149	1K2	Res. SMD 0805
103	1	R150	100H0	Res. SMD 0805
104	1	R151	576H0	Res. SMD 0805
105	2	R152,R153	10K0	Res. SMD 0805
106	2	SW1,SW3	SWDIP2	Dip switch 2 vie
107	1	SW2	SWDIP4	Dip switch 4 vie
108	1	TCX1	10MHz	TCXO SMD
109	12	TP1,TP2,TP3,TP4,TP5,TP6,TP8,TP9,TP10,TP11,TP12,TP13	NC	Test point
110	1	TP7	NC*	Test point
111	1	U1	LM7815	Stabilizzatore TO220
112	2	U3,U8	LM393SMD	Dual Comp. SMD SO8
113	5	U4,U6,U14,U15,U16	TL072SMD	Dual Op. SMD SO8
114	3	U5,U9,U13	LM358SMD	Dual Op. SMD SO8

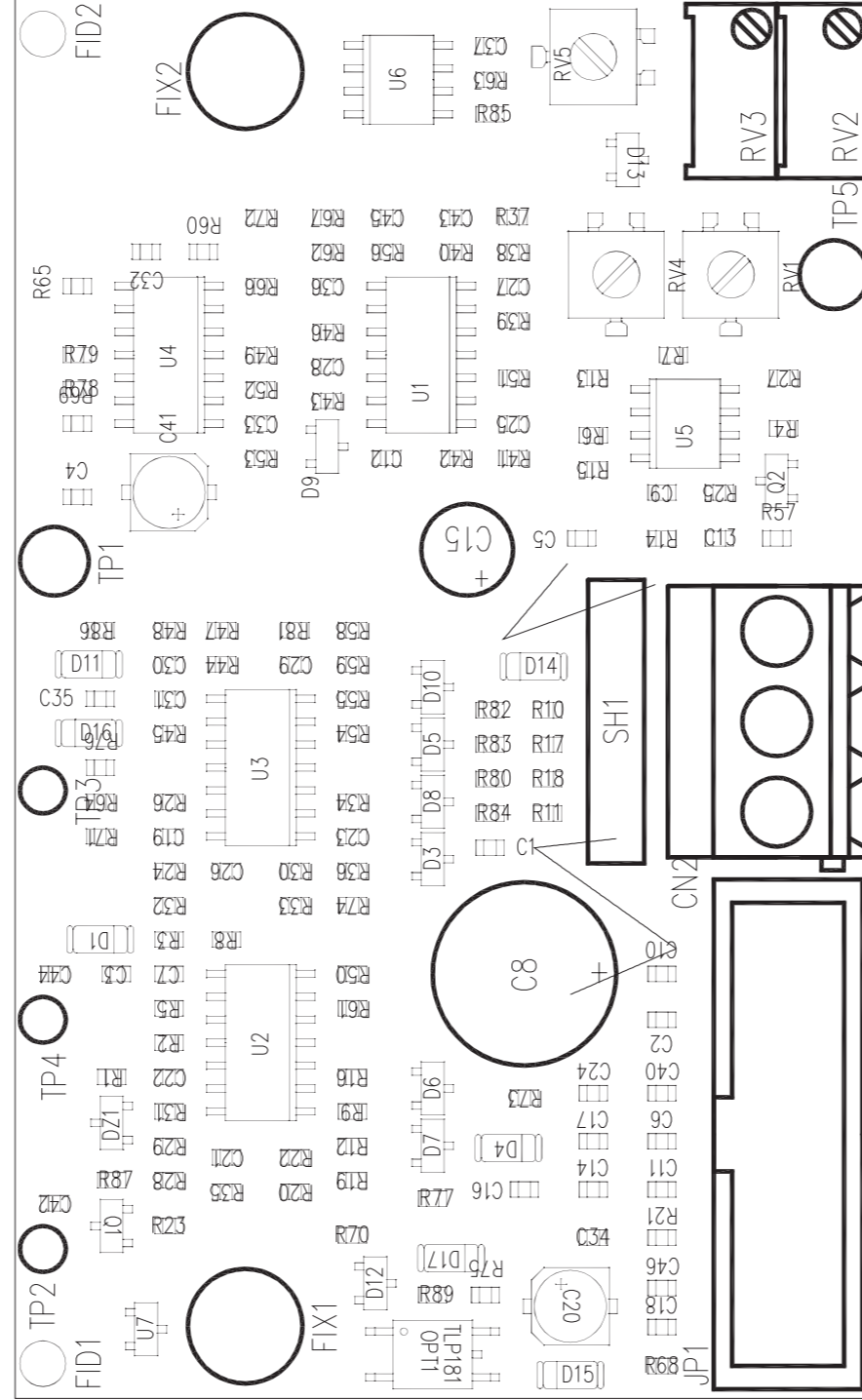
Scheda Main
SLMBDTEXLC04
Revision: 4.6 Date: 20/12/2005
Tommasi - Rev.: Berti J.


Item	Quantity	Reference	Part	Description
1	1	CN1	SMB_CS	Connettore SMB cs
2	2	CN2,CN5	XLRFCSD	Connettore XLR femm. cs
3	4	CN3,CN4,CN6,CN7	BNC_IS	Connettore BNC metallico
4	1	CN8	NC	Connettore SMB cs
5	1	CS1	CSMBDTEXLC04	Circuito stampato
6	30	C1,C10,C15,C18,C39,C40,C41,C42,C43,C44,C62,C63,C76,C77,C78,C80,C81,C97,C104,C105,C110,C117,C118,C119,C120,C125,C127,C138,C148,C162	10uF/16V	Cond. Elett. SMD d. 4mm
7	34	C2,C4,C14,C23,C26,C32,C34,C45,C46,C47,C49,C50,C53,C58,C59,C65,C66,C69,C79,C85,C88,C111,C114,C123,C128,C133,C134,C137,C145,C147,C149,C150,C154,C155	0.1uF	Cond. SMD 0805
8	1	C3	10uF/35V	Cond. Elett. SMD d. 4mm
9	7	C5,C9,C17,C27,C33,C92,C99	10nF	Cond. SMD 0805
10	4	C6,C36,C61,C95	47pF	Cond. SMD 0805
11	3	C7,C20,C112	22pF	Cond. SMD 0805
12	1	C8	33pF	Cond. SMD 0805
13	6	C11,C86,C87,C122,C124	NC	Cond. SMD 0805



U4 NO EXTERNAL SWAP
U1B U1C STESSO IC

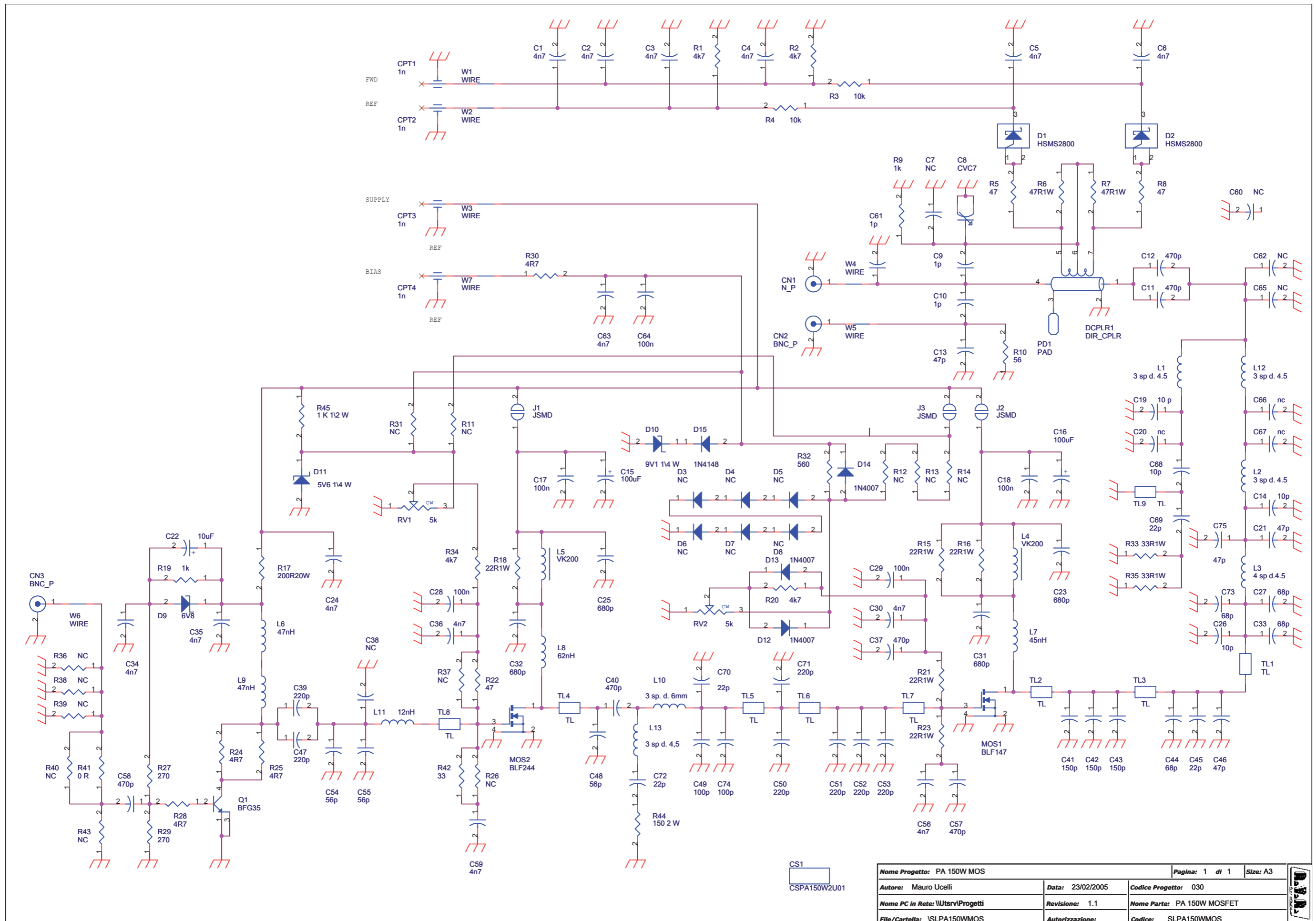
Nome Progetto: Controllo finale MOS per TEX 150 LCD		Pagina: 1 di 1	Size: A3
Autore: Luca Gasperini	Data: Wednesday, June 01, 2006	Codice Progetto: CSCNTMOS03	
Nome PC in Rete: \\\UT_SRV\PROGETTI	Revisione: 1.4	Nome Parte: Controllo finale MOS 150W	
File/Cartella: /	Autorizzazione:	Codice: SLCNTMOS03	



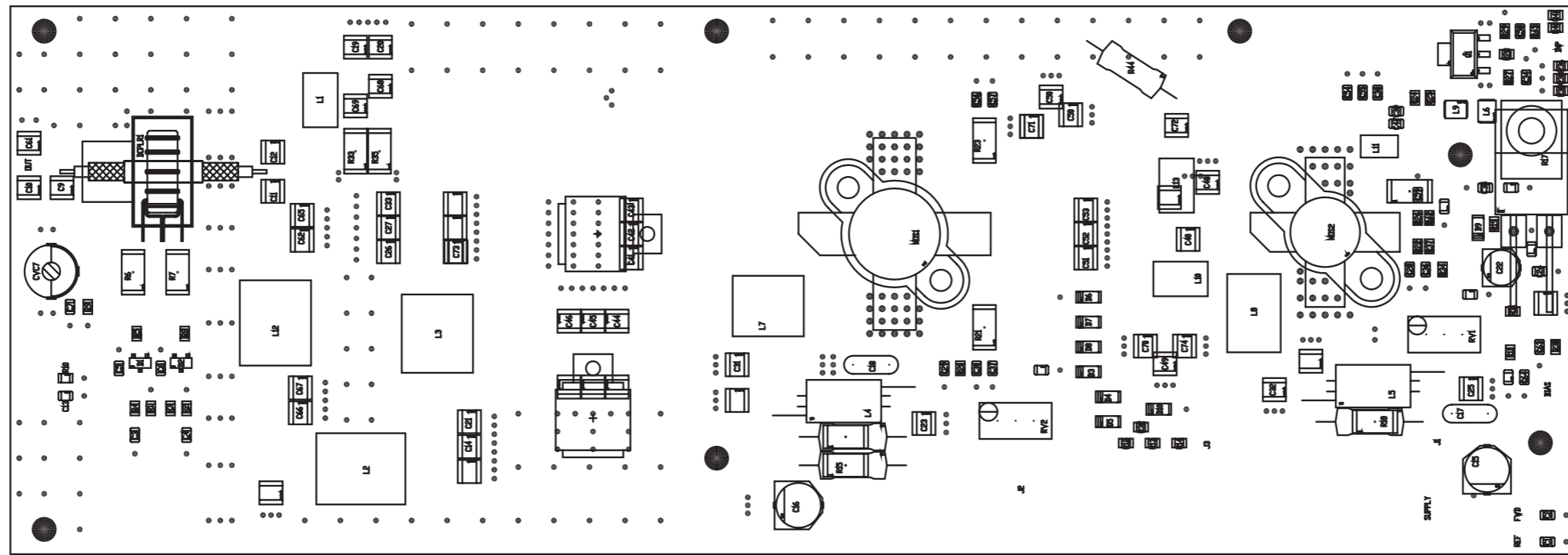
	NOME PROGETTO: CONTROLLO FINALE MOS	NOME PARTE: SCHEDA CONTROLLO FINALE MOS
AUTORE: L. GASPERINI	DATA: 13/04/2005	REVISIONE: 1.0
ARCHIVIAZIONE ELETTRONICA: "CARTELLA PROGETTI" SU "UT_SRV"	CODICE PROGETTO: 030	CODICE DISEGNO: CSCNTMOS03
MATERIALE: <>	TRATTAMENTO: <>	PROFILO: <>
		STATO: PROGETTUALE


Controllo finale MOS 150W Revised: Wednesday, June 1, 2005
 SLCNTMOS03 Revision: 1.4
 Controllo finale MOS per TEX 150 LCD
 SLCNTMOS03
 Luca Gasperini

Item	Quantity	Reference	Part	(description)
1	1	CN2	CN03KRA	
2	3	C1, C4, C5	4n7	Cond. SMD 0805
3	16	C2, C6, C7, C11, C14, C16, C17, C18, C19, C23, C24, C27, C40, C42, C44, C45	1 nF	Cond. SMD 0805
4	2	C34, C3	1 uF	Cond. SMD 0805
5	1	C8	220uF 35V	Cond. Elettr. Dia 10 P5.08
6	1	C9	NC	Cond. SMD 0805
7	8	C10, C12, C21, C26, C32, C35, C37, C46	100 nF	Cond. SMD 0805
8	6	C13, C25, C28, C29, C30, C43	NC	Cond. SMD 0805
9	1	C15	NC	Cond. Elettr. Dia 5 P2.54
10	2	C20, C41	10 uF 35 V	Cond. Elettr. SMD d. 4mm
11	4	C22, C31, C33, C36	470 nF	Cond. SMD 0805
12	1	DZ1	LM4040-10 V	Diode Zener SMD SOT23
13	1	D1	10 V	MINIMELF SMD Zener Diode
14	5	D3, D5, D8, D9, D10	HSMS2800	Diode Shottky SOT23
15	2	D4, D17	5V1	MINIMELF SMD Zener Diode
16	3	D6, D7, D13	BAV 70	Doppio Diode SMD SOT23
17	2	D11, D14	NC	MINIMELF SMD Zener Diode
18	1	D12	HSMS2804	Doppio Diode SMD SOT23
19	1	D15	15 V	MINIMELF SMD Zener Diode
20	1	D16	NC	
21	2	FIX1, FIX2	FIX35	Foro fissaggio 3.5mm
22	1	JP1	CN16PD	Connettore 16 poli Flat cs
23	1	OPT1	OPTOSM1	
24	1	Q1	NC	Trans. NPN SOT23
25	1	Q2	MMBT540LT1	Trans. PNP SOT23
26	3	RV1, RV4, RV5	5 K	Trimmer SMD
27	1	RV2	20 K REG 0.	Trimmer Rg V 3296W
28	1	RV3	20 K REG 0.	Trimmer Rg V 3296W
29	6	R1, R30, R33, R39, R67, R72	470 R	Res. SMD 0805
30	8	R2, R4, R8, R32, R35, R43, R56, R74	51 R	Res. SMD 0805
31	6	R3, R24, R41, R51, R53, R59	20 K	Res. SMD 0805
32	1	R5	9K31	Res. SMD 0805
33	17	R6, R7, R15, R19, R21, R34, R36, R40, R46, R47, R52, R58, R63, R80, R82, R83, R84	10 K	Res. SMD 0805
34	11	R9, R22, R23, R44, R45, R64, R68, R70, R79, R85, R86	NC	Res. SMD 0805
35	8	R10, R11, R17, R18, R71, R76, R78, R87	0 R	Res. SMD 0805
36	12	R12, R16, R20, R26, R28, R38, R54, R55, R61, R66, R75, R81	1 K	Res. SMD 0805
37	2	R13, R14	47 K	Res. SMD 0805
38	4	R25, R37, R49, R50	100 R	Res. SMD 0805
39	2	R27, R42	4K7	Res. SMD 0805
40	1	R29	18 K	Res. SMD 0805
41	1	R31	11K5	Res. SMD 0805
42	2	R48, R62	28 K	Res. SMD 0805
43	1	R57	82 R	Res. SMD 0805
44	4	R60, R65, R69, R89	220 R	Res. SMD 0805
45	1	R73	2K2	Res. SMD 0805
46	1	R77	1 M	Res. SMD 0805
47	1	SH1	SHUNT	Shunt passo 15.2mm fori 2mm
48	1	TP1	VPA	Foro dia. 2mm
49	1	TP2	FWD	Foro dia. 1mm
50	1	TP3	CONT.	Foro dia. 1mm
51	1	TP4	RFD	Foro dia. 1mm
52	1	TP5	GND	Foro dia. 2mm
53	2	U1, U2	LM324SMD	Quad Op. SMD SO14
54	2	U4, U3	TL074SMD	Quad Op. SMD SO14
55	1	U5	TL071/SO	Dual Op. SMD SO8
56	1	U6	LM358	Dual Op. SMD SO8
57	1	U7	LM50C_SMD	Temperature sensor



Nome Progetto: PA 150W MOS		Pagina: 1 di 1	Size: A3
Autore: Mauro Ucelli	Data: 23/02/2005	Codice Progetto: 030	
Nome PC in Rete: \Utsrv\Progetti	Revisione: 1.1	Nome Parte: PA 150W MOSFET	
File/Cartella: \SLPA150WMOS	Autorizzazione:	Codice: SLPA150WMOS	



	NOME PROGETTO: PA 150W MOS	NOME PARTE: PA 150W MOS
AUTORE: M. UCCELLI	DATA: 31/05/2004	REVISIONE: 1.0
ARCHIVIAZIONE ELETTRONICA: "CARTELLA PROGETTI" SU "UT_SRV"	CODICE PROGETTO: 030	SCALA: 1:1
MATERIALE: /	TRATTAMENTO: /	SIZE: A4
	PROFILO: /	PAGINA: 1 DI 1
		CODICE DISEGNO: CSPA150W2U01
		STATO: PROGETTUALE

PA 150W MOSFET Revised: Tuesday, February 22, 2005

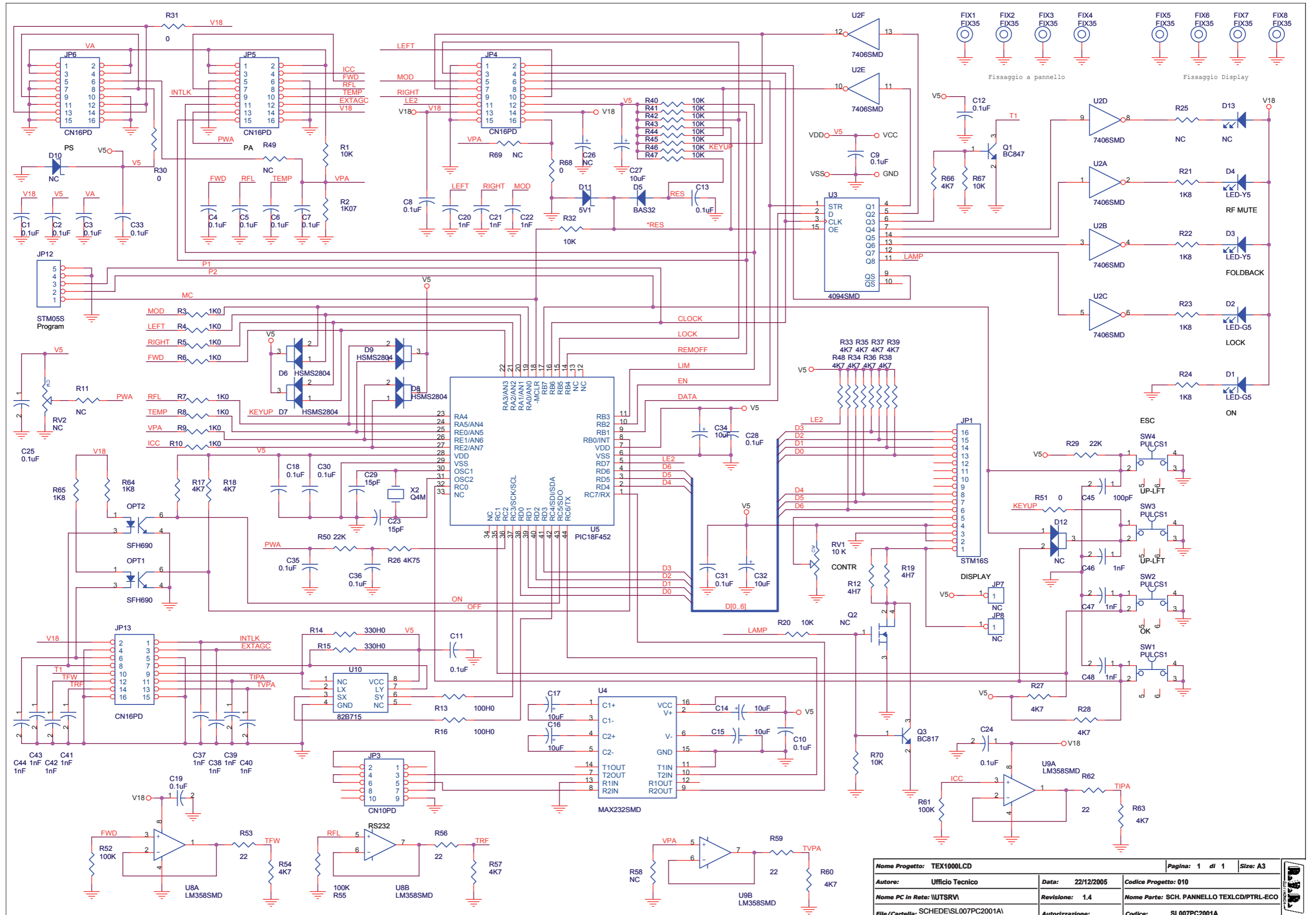
Revision: 1.1

SLPA150WMOS

30

Mauro Ucelli

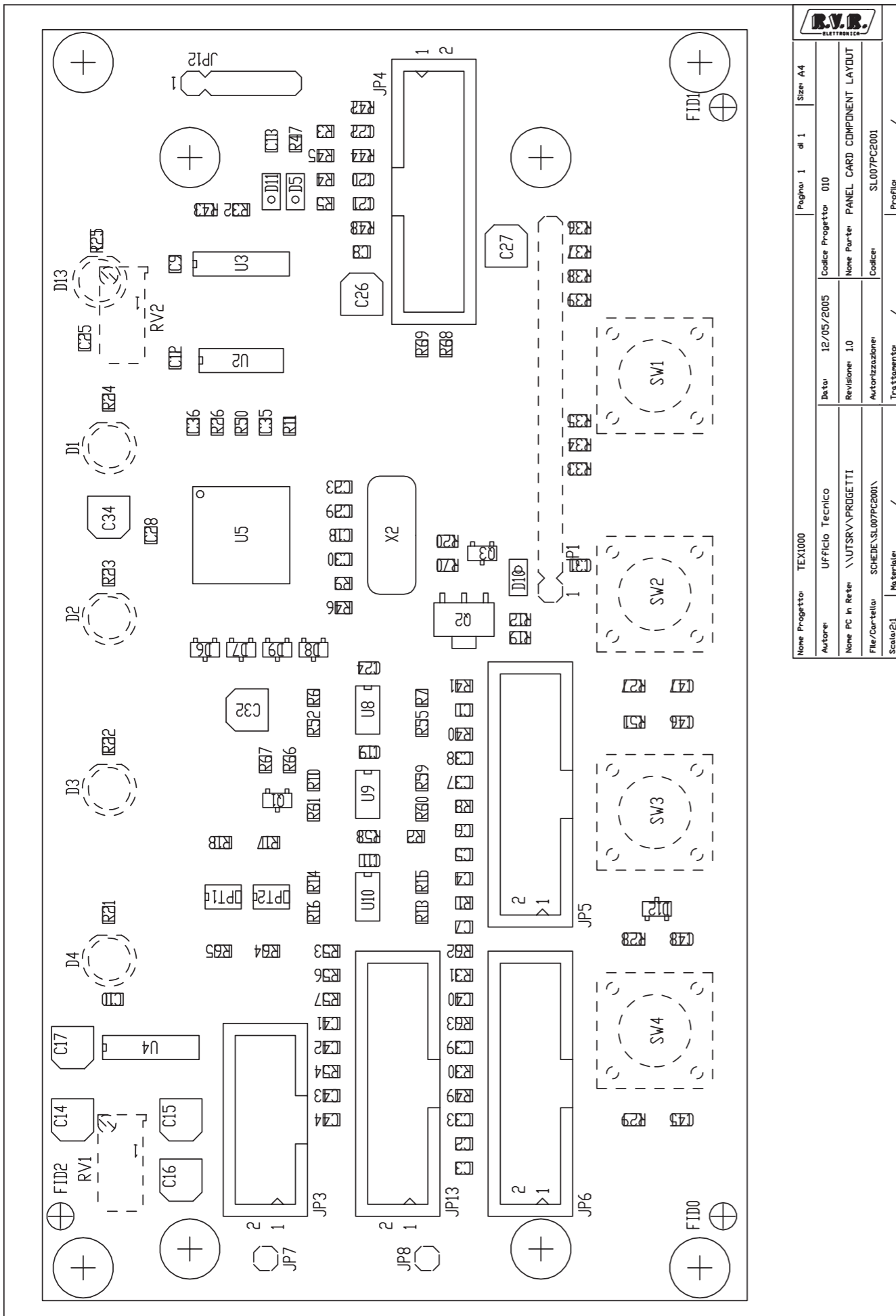
Item	Quantity	Reference	Part	{description}
1	1	CN1	N_P	Conn. N da pannello
2	2	CN3, CN2	BNC_P	Conn. BNC da pannello
3	4	CPT1, CPT2, CPT3, CPT4	1n	Cond. passante
4	1	CS1	CSPA150W2U01	Circuito stampato
5	14	C1, C2, C3, C4, C5, C6, C24, C30, C34, C35, C36, C56, C59, C63	4n7	Cond. SMD 0805 COG
6	2	C7, C38	NC	Cond. SMD 0805 COG
7	1	C8	CVC7	Comp. ceramico dia. 7mm
8	3	C9, C10, C61	1p	Cond. SMD 1212 HQ
9	3	C11, C12, C40	470p	Cond. SMD 1212 HQ
10	1	C13	47p	Cond. SMD 0805 COG
11	3	C14, C26, C68	10p	Cond. SMD 1212 HQ
12	2	C16, C15	100uF	Cond. Elett. SMD d. 6.3mm
13	2	C18, C17	100n	Cond. ceramico multistrato p 5mm
14	1	C19	10p	Cond. SMD 1212 HQ
15	6	C20, C60, C62, C65, C66, C67	nc	Cond. SMD 1212 HQ
16	3	C21, C46, C75	47p	Cond. SMD 1212 HQ
17	1	C22	10uF	Cond. Elett. SMD d. 5mm
18	4	C23, C25, C31, C32	680p	Cond. SMD 1212 HQ
19	4	C27, C33, C44, C73	68p	Cond. SMD 1212 HQ
20	3	C28, C29, C64	100n	Cond. SMD 0805 COG
21	3	C37, C57, C58	470p	Cond. SMD 0805 COG
22	2	C47, C39	220p	Cond. SMD 0805 COG
23	3	C41, C42, C43	150p	Cond. SMD 1212 HQ
24	4	C45, C69, C70, C72	22p	Cond. SMD 1212 HQ
25	1	C48	56p	Cond. SMD 1212 HQ
26	2	C49, C74	100p	Cond. SMD 1212 HQ
27	5	C50, C51, C52, C53, C71	220p	Cond. SMD 1212 HQ
28	2	C54, C55	56p	Cond. SMD 0805 COG
29	1	DCPLR1	DIR_CPLR	Accopp. direz.
30	2	D1, D2	HSMS2800	
31	6	D3, D4, D5, D6, D7, D8	NC	MINIMELF SMD Diode
32	1	D9	6V8	MINIMELF SMD Zener Diode
33	1	D10	9V1 1/4 W	
34	1	D11	5V6 1/4 W	
35	3	D12, D13, D14	1N4007	
36	1	D15	1N4148	
37	3	J1, J2, J3	JSMD	Pad SMD a saldare
38	3	L1, L2, L12	3 sp d. 4.5	Induttanza cilindrica
39	1	L3	4 sp d.4.5	Induttanza cilindrica
40	2	L5, L4	VK200	Induttanza cilindrica VK200
41	2	L9, L6	47nH	Induttanza SMD 3225 (1210)
42	1	L7	45nH	Induttanza cilindrica
43	1	L8	62nH	Induttanza cilindrica
44	1	L10	3 sp. d. 6mm	Induttanza cilindrica
45	1	L11	12nH	Induttanza cilindrica
46	1	L13	3 sp d. 4,5	Induttanza cilindrica
47	1	MOS1	BLF147	Power mosfet RF
48	1	MOS2	BLF244	Power mosfet RF
49	1	PD1	PAD	
50	1	Q1	BFG35	Trans. NPN SOT223
51	2	RV2, RV1	5k	Trimmer Rg V 3296W
52	4	R1, R2, R20, R34	4k7	Res. SMD 0805
53	2	R3, R4	10k	Res. SMD 0805
54	3	R5, R8, R22	47	Res. SMD 0805
55	2	R7, R6	47R1W	Res. SMD 2512
56	2	R9, R19	1k	Res. SMD 0805
57	1	R10	56	Res. SMD 0805
58	12	R11, R12, R13, R14, R26, R31, R36, R37, R38, R39, R40, R43	NC	Res. SMD 0805
59	5	R15, R16, R18, R21, R23	22R1W	Res. SMD 2512
60	1	R17	200R20W	Res. 20W
61	4	R24, R25, R28, R30	4R7	Res. SMD 0805
62	2	R27, R29	270	Res. SMD 0805
63	1	R32	560	Res. SMD 0805
64	2	R33, R35	33R1W	Res. SMD 2512
65	1	R41	0 R	Res. SMD 0805
66	1	R42	33	Res. SMD 0805
67	1	R44	150 2 W	
68	1	R45	1 K 1/2 W	
69	9	TL1, TL2, TL3, TL4, TL5, TL6, TL7, TL8, TL9	TL	Linea strip CS
70	7	W1, W2, W3, W4, W5, W6, W7	WIRE	Filo a saldare



Nome Progetto: TEX1000LCD		Pagina: 1 di 1		Size: A3
Autore: Ufficio Tecnico		Data: 22/12/2005	Codice Progetto: 010	
Nome PC in Rete: \UTSRV\		Revisione: 1,4	Nome Parte: SCH. PANNELLO TEXLCD/PTRL-ECO	
File/Cartella: SCHEDE\SL007PC2001A\		Autorizzazione:	Codice: SL007PC2001A	

Panel Card
SL007PC2001A

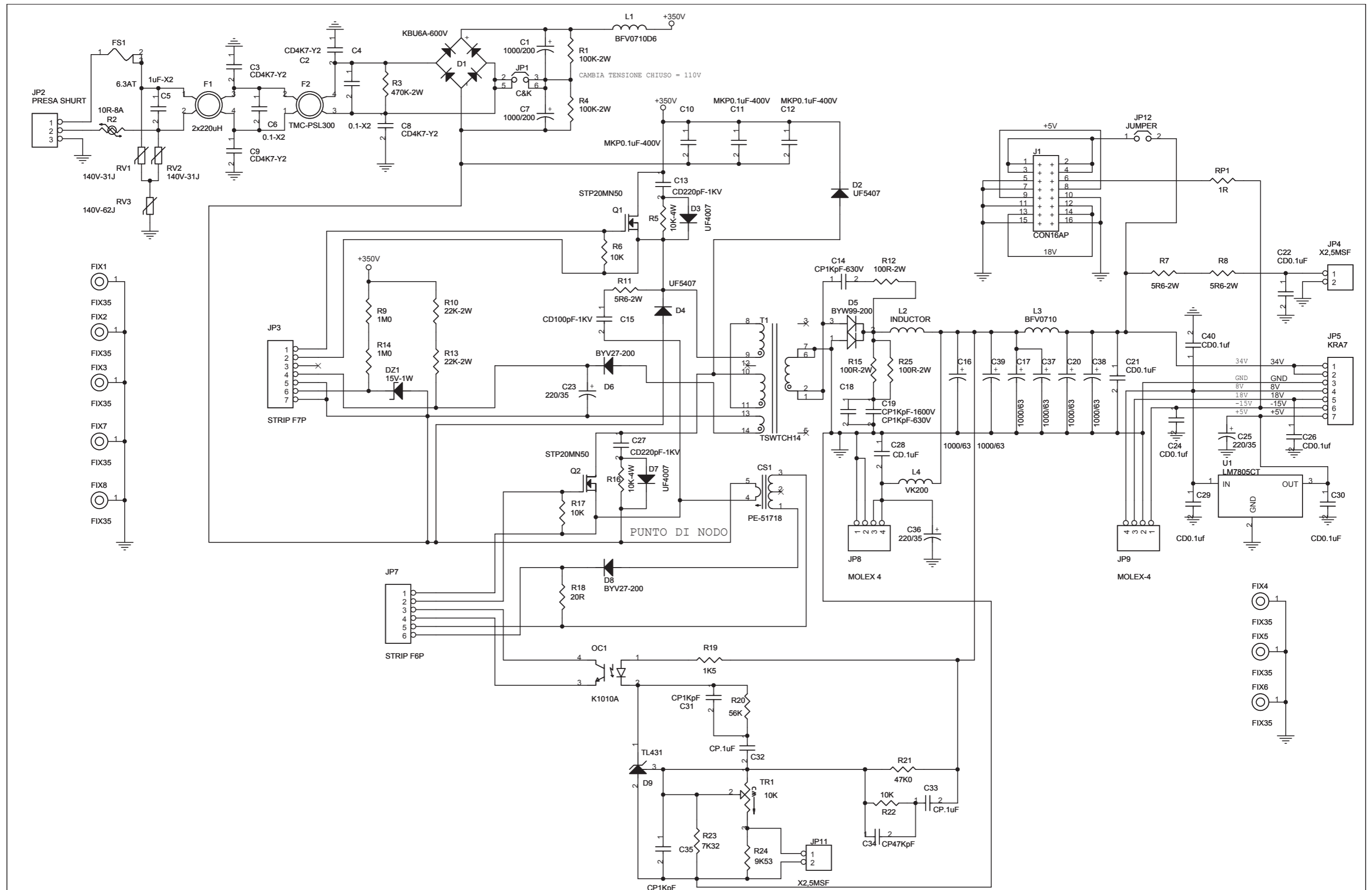
SCH. PANNELLO TEXLCD/PTRL-ECO
SL007PC2001A Revision: 1.4
DATA: 22/12/2005



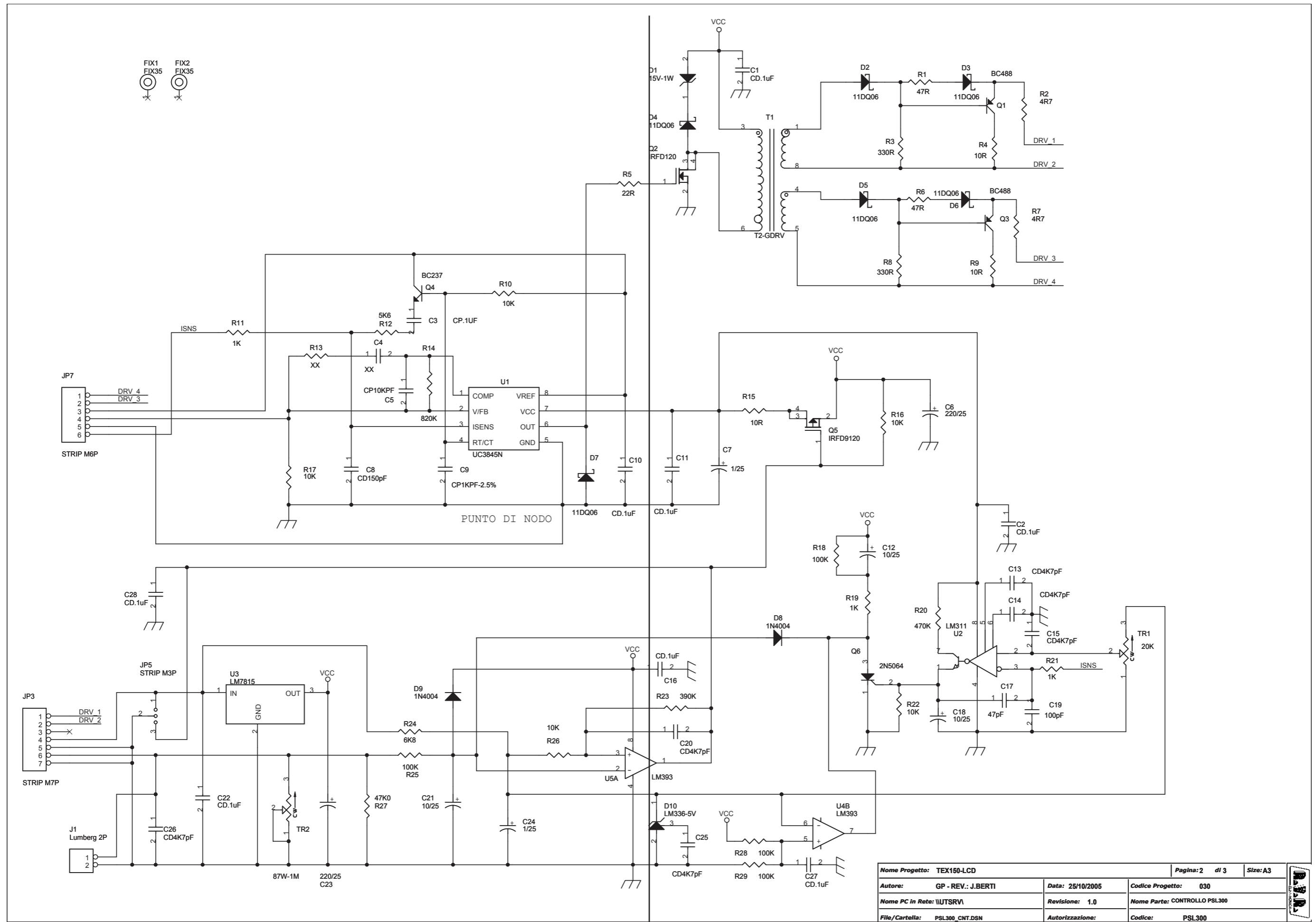
None Progetto: TEX1000		Pagina: 1 di 1		Size: A4	
Autore: UFFICIO Tecnico		Codice Progetto: D10		None Parte: PANEL CARD COMPONENT LAYOUT	
None PC in Rete: \\UTSRV\PRDGETTI		Data: 12/05/2005		Codice: SL007PC2001	
File/Cartella: SCHEDE\SL007PC2001\		Revisione: 1.0		Trattamento: /	
Scale: E1		Materiali: /		Profilo: /	

Item	Q.ty	Reference	Part	
1	23	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C18, C19, C24, C25, C28, C30, C31, C33, C35, C36	0.1uF	
2	1	C45	100pF	
3	7	C14, C15, C16, C17, C27, C32, C34	10uF	
4	14	C20, C21, C22, C37, C38, C39, C40, C41, C42, C43, C44, C46, C47, C48	1nF	
5	2	C23, C29	15pF	
6	13	RV2, Q2, JP7, JP8, D10, R11, D12, D13, R25, C26, R49, R69	NC	
7	2	D2, D1	LED-G5	Nota 1
8	2	D4, D3	LED-Y5	Nota 1
9	1	D5	BAS32	
10	4	D6, D7, D8, D9	HSMS2804	
11	1	D11	5V1	
12	8	FIX1, FIX2, FIX3, FIX4, FIX5, FIX6, FIX7, FIX8	FIX35	
13	1	JP1	STM16S	Nota 2
14	1	JP3	CN10PD	
15	4	JP4, JP5, JP6, JP13	CN16PD	
16	1	JP12	STM05S	
17	2	OPT2, OPT1	SFH690	
18	1	Q1	BC847	
19	1	Q3	BC817	
20	1	RV1	10 K	Nota 1
21	13	R1, R20, R32, R40, R41, R42, R43, R44, R45, R46, R47, R67, R70	10K	
22	1	R2	1K07	
23	8	R3, R4, R5, R6, R7, R8, R9, R10	1K0	
24	2	R19, R12	4H7	
25	2	R13, R16	100H0	
26	2	R14, R15	330H0	
27	17	R17, R18, R27, R28, R33, R34, R35, R36, R37, R38, R39, R48, R54, R57, R60, R63, R66	4K7	
28	6	R21, R22, R23, R24, R64, R65	1K8	
29	1	R26	4K75	
30	4	R30, R31, R51, R68	0	
31	2	R29, R50	22K	
32	3	R52, R55, R61	100K	
33	4	R53, R56, R59, R62	22	
34	4	SW1, SW2, SW3, SW4	PULCS1	Nota 1
35	1	U2	7406SMD	
36	1	U3	4094SMD	
37	1	U4	MAX232SMD	
38	1	U5	PIC18F452	
39	2	U9, U8	LM358SMD	
40	1	U10	82B715	
41	1	X2	Q4M	

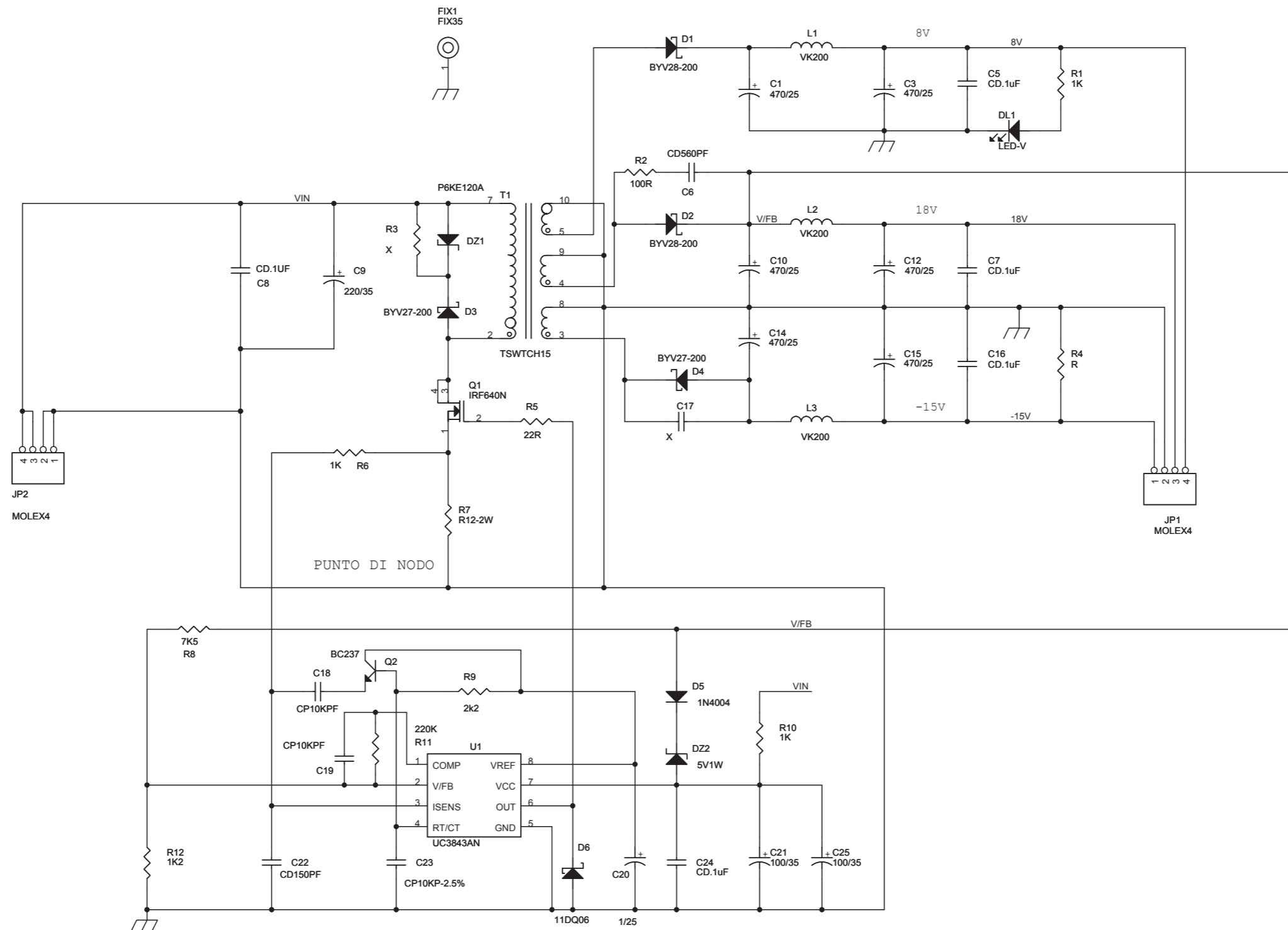
Nota 1 Montare lato saldature



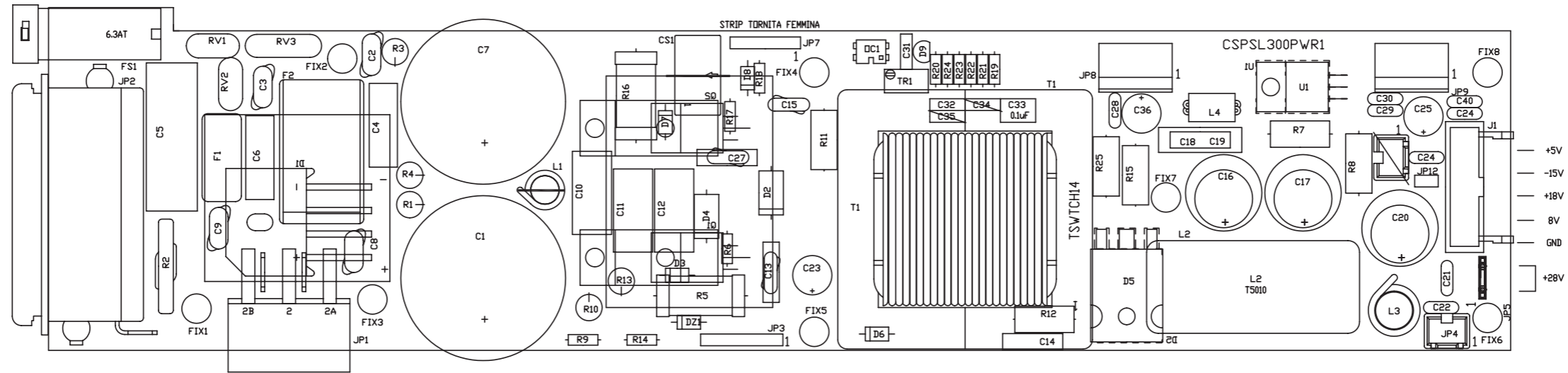
Nome Progetto: TEX150-LCD		Pagina: 1 di 3		Size: A3
Autore: GP - REV.: J.BERTI		Data: 25/10/2005	Codice Progetto: 030	
Nome PC in Rete: \\UTSRV\		Revisione: 1.0	Nome Parte: POWER PSL 300	
File/Cartella: PSL300_PWR_R1.DSN		Autorizzazione:	Codice: PSL300	



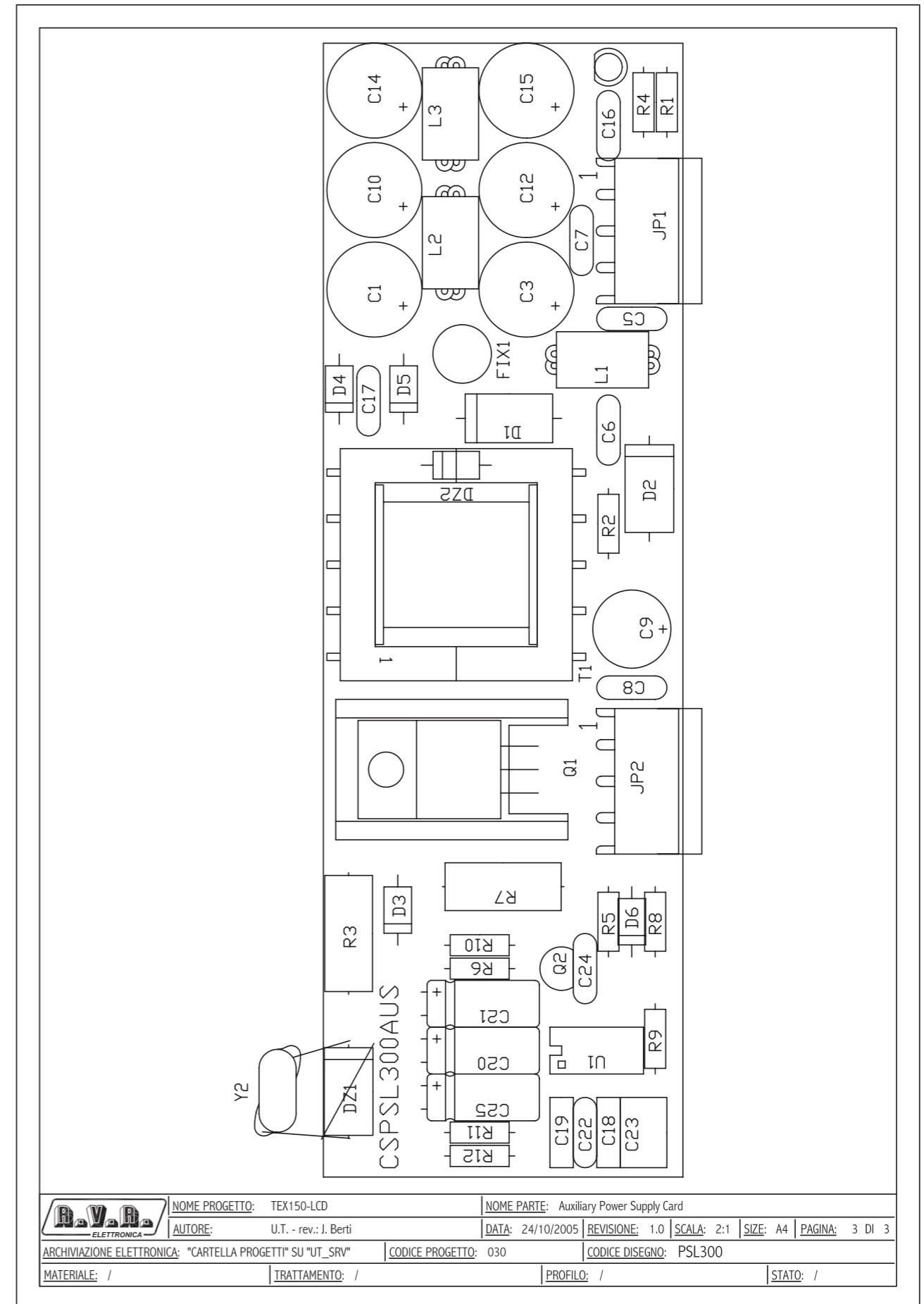
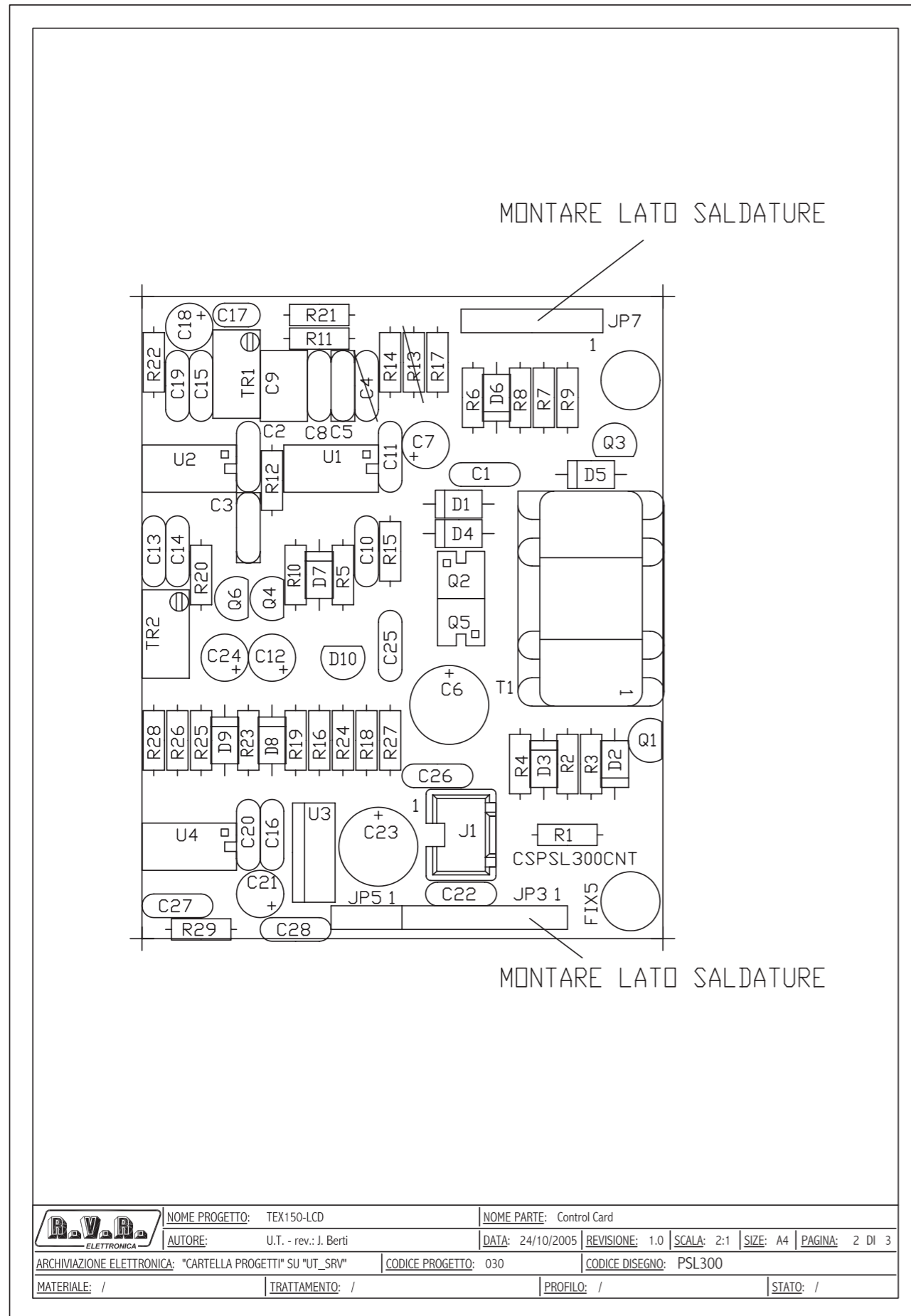
Nome Progetto: TEX150-LCD	Pagina: 2 di 3	Size: A3
Autore: GP - REV.: J.BERTI	Data: 25/10/2005	Codice Progetto: 030
Nome PC in Rete: \UTSRV\	Revisione: 1.0	Nome Parte: CONTROLLO PSL300
File/Cartella: PSL300_CNT.DSN	Autorizzazione:	Codice: PSL300



Nome Progetto: TEX150-LCD		Pagina: 3 di 3	Size: A3
Autore: GP - REV.: J.BERTI	Data: 24/10/2005	Codice Progetto: 030	
Nome PC in Rete: \\\UTSRV\	Revisione: 1.0	Nome Parte: POWER SUPPLY +18V1.5A 8V1A 15V 0.2A	
File/Cartella: PSL300_AUS.DSN	Autorizzazione:	Codice: PSL300	



	NOME PROGETTO: TEX150-LCD	NOME PARTE: Main Card
	AUTORE: U.T. - rev.: J. Berti	DATA: 24/10/2005 REVISIONE: 1.0
ARCHIVIAZIONE ELETTRONICA: "CARTELLA PROGETTI" SU "UT_SRV"	CODICE PROGETTO: 030	CODICE DISEGNO: PSL300
MATERIALE: /	TRATTAMENTO: /	PROFILO: /
		STATO: /



PSL300
POWER PSL 300
Revised: 24/10/2005
Revision: 1.0
GP - REV.: J.BERTI

Item	Quantity	Reference	Part
1	1	CS1	PE-51718
2	2	C1, C7	1000/200
3	4	C2, C3, C8, C9	CD4K7-Y2
4	2	C4, C6	0.1-X2
5	1	C5	1uF-X2
6	3	C10, C11, C12	MKP0.1uF-400V
7	2	C13, C27	CD220pF-1KV
8	2	C14, C18	CP1KpF-630V
9	1	C15	CD100pF-1KV
10	6	C16, C17, C20, C37, C38, C39	1000/63
11	1	C19	CP1KpF-1600V
12	7	C21, C22, C24, C26, C29, C30, C40	CD0.1uF
13	3	C23, C25, C36	220/35
14	1	C28	CD.1uF
15	2	C31, C35	CP1KpF
16	2	C32, C33	CP.1uF
17	1	C34	CP47KpF
18	1	DZ1	15V-1W
19	1	D1	KBU6A-600V
20	2	D2, D4	UF5407
21	2	D3, D7	UF4007
22	1	D5	BYW99-200
23	2	D6, D8	BYV27-200
24	1	D9	TL431
25	8	FIX1, FIX2, FIX3, FIX4, FIX5, FIX6, FIX7, FIX8	FIX35
26	1	FS1	6.3AT
27	1	F1	2x220uH
28	1	F2	TMC-PSL300
29	1	JP1	C&K
30	1	JP2	PRESA SHURT
31	1	JP3	STRIP F7P
32	2	JP4, JP11	X2,5MSF
33	1	JP5	KRA7
34	1	JP7	STRIP F6P
35	1	JP8	MOLEX 4
36	1	JP9	MOLEX-4
37	1	JP12	JUMPER
38	1	J1	CON16AP
39	1	L1	BFV0710D6
40	1	L2	INDUCTOR
41	1	L3	BFV0710
42	1	L4	VK200
43	1	OC1	K1010A
44	2	Q1, Q2	STP20MN50
45	1	RP1	1R
46	2	RV1, RV2	140V-31J
47	1	RV3	140V-62J
48	2	R1, R4	100K-2W
49	1	R2	10R-8A
50	1	R3	470K-2W
51	2	R5, R16	10K-4W
52	4	TR1, R6, R17, R22	10K
53	3	R7, R8, R11	5R6-2W
54	2	R9, R14	1M0
55	2	R10, R13	22K-2W
56	3	R12, R15, R25	100R-2W
57	1	R18	20R
58	1	R19	1K5
59	1	R20	56K

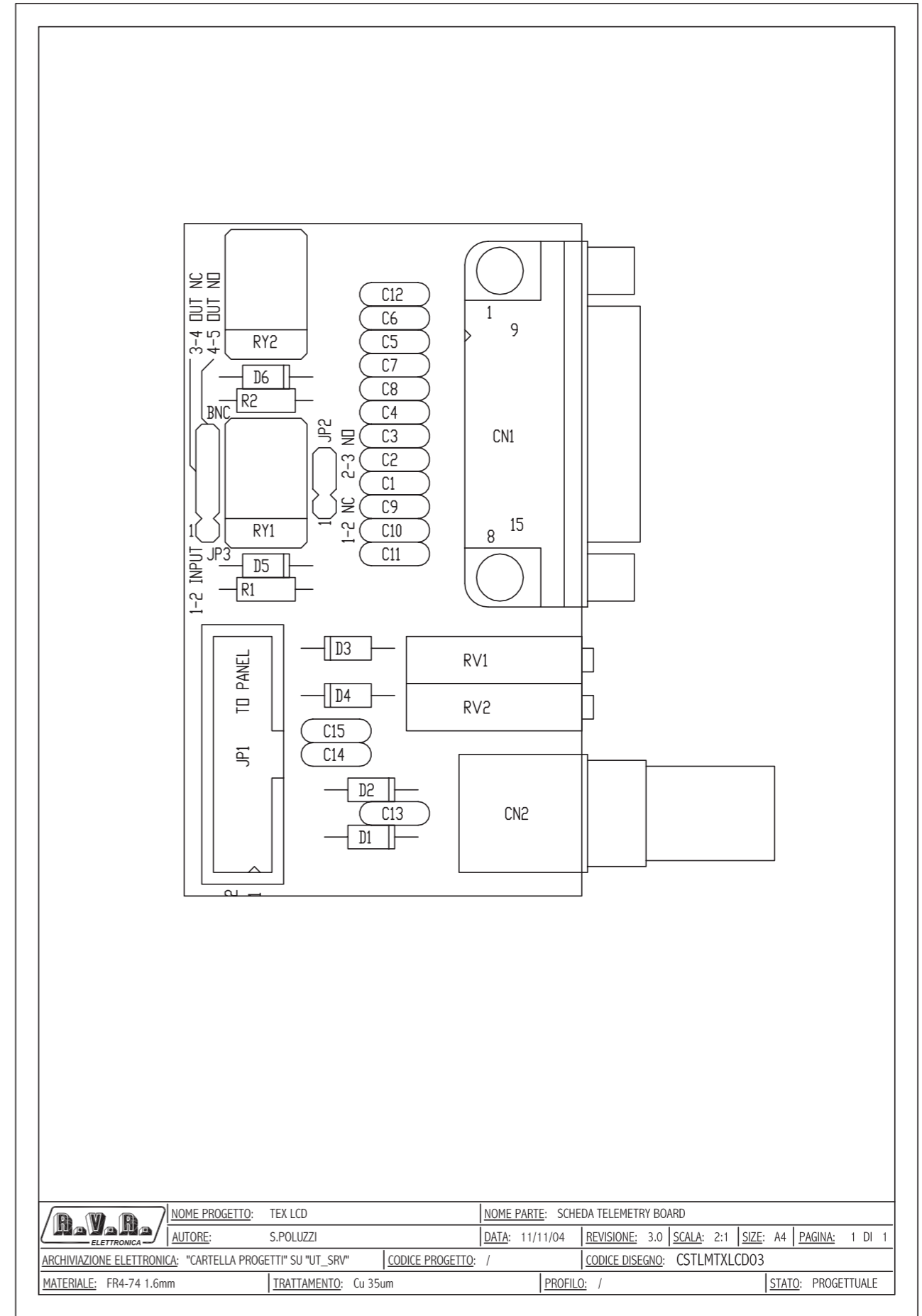
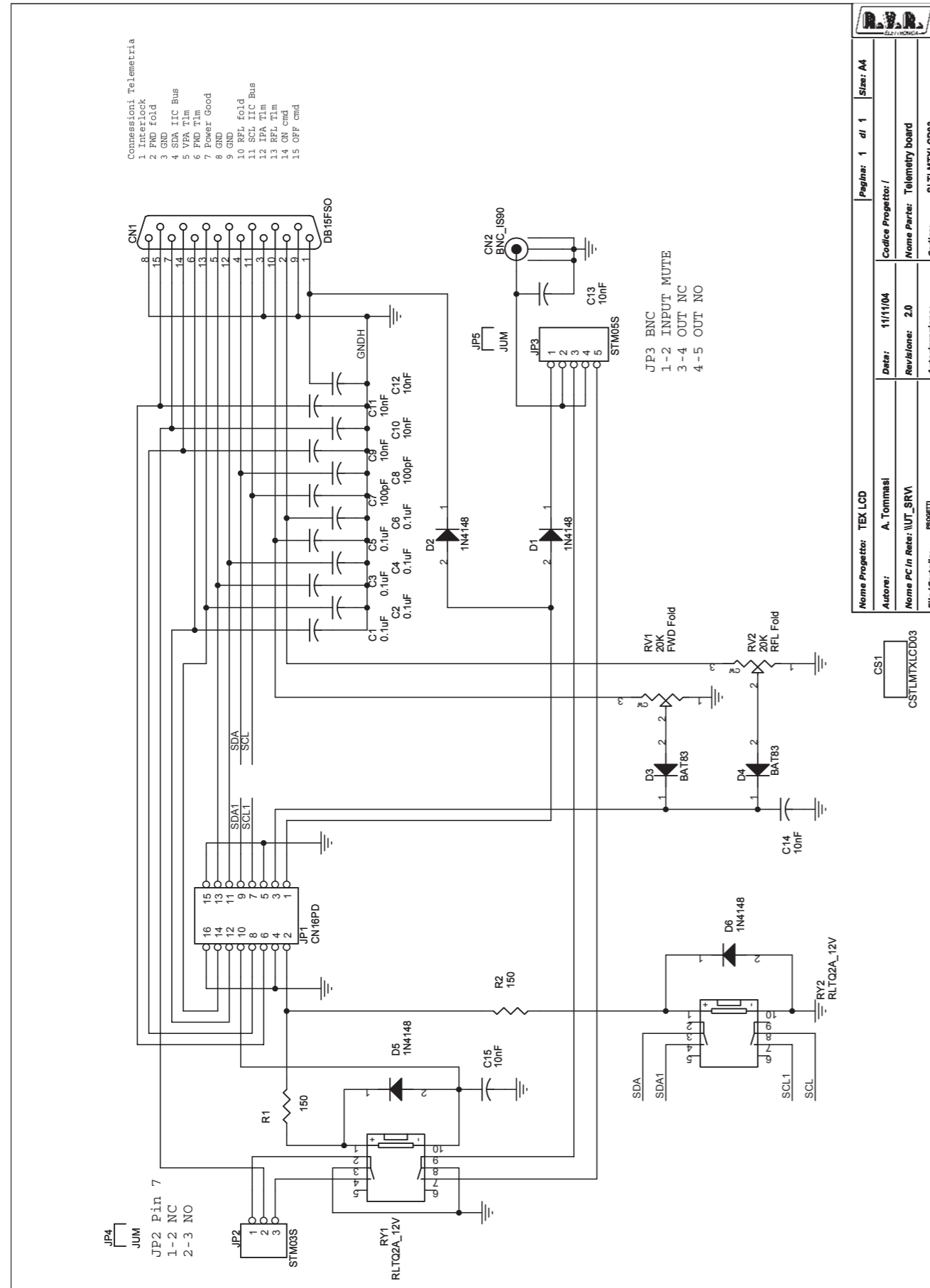
Item	Quantity	Reference	Part
60	1	R21	47K0
61	1	R23	7K32
62	1	R24	9K53
63	1	T1	TSWTCH14
64	1	U1	LM7805CT

PSL300
 CONTROLLO PSL300
 Revised: 24/10/2005
 Revision: 1.0
 GP - REV.: J.BERTI

Item	Quantity	Reference	Part
1	8	C1, C2, C10, C11, C16, C22, C27, C28	CD.1uF
2	1	C3	CP.1UF
3	2	C4, R13	XX
4	1	C5	CP10KPF
5	2	C6, C23	220/25
6	2	C7, C24	25-gen
7	1	C8	CD150pF
8	1	C9	CP1KPF-2.5%
9	3	C12, C18, C21	25-ott
10	6	C13, C14, C15, C20, C25, C26	CD4K7pF
11	1	C17	47pF
12	1	C19	100pF
13	1	D1	15V-1W
14	6	D2, D3, D4, D5, D6, D7	11DQ06
15	2	D8, D9	1N4004
16	1	D10	LM336-5V
17	2	FIX1, FIX2	FIX35
18	1	JP3	STRIP M7P
19	1	JP5	STRIP M3P
20	1	JP7	STRIP M6P
21	1	J1	Lumberg 2P
22	2	Q1, Q3	BC488
23	1	Q2	IRFD120
24	1	Q4	BC237
25	1	Q5	IRFD9120
26	1	Q6	2N5064
27	2	R1, R6	47R
28	2	R2, R7	4R7
29	2	R3, R8	330R
30	3	R4, R9, R15	10R
31	1	R5	22R
32	5	R10, R16, R17, R22, R26	10K
33	3	R11, R19, R21	1K
34	1	R12	5K6
35	1	R14	820K
36	4	R18, R25, R28, R29	100K
37	1	R20	470K
38	1	R23	390K
39	1	R24	6K8
40	1	R27	47K0
41	1	TR1	20K
42	1	TR2	87W-1M
43	1	T1	T2-GDRV
44	1	U1	UC3845N
45	1	U2	LM311
46	1	U3	LM7815
47	2	U4, U5	LM393

PSL300
 POWER SUPPLY +18V1.5A 8V1A 15V 0.2A
 Revised: 24/10/2005
 Revision: 1.0
 GP - REV.: J.BERTI

Item	Quantity	Reference	Part
1	6	C1, C3, C10, C12, C14, C15	470/25
2	5	C5, C7, C8, C16, C24	CD.1uF
3	1	C6	CD560PF
4	1	C9	220/35
5	2	R3, C17	X
6	2	C18, C19	CP10KPF
7	1	C20	25-gen
8	2	C21, C25	100/35
9	1	C22	CD150PF
10	1	C23	CP10KP-2.5%
11	1	DL1	LED-V
12	1	DZ1	P6KE120A
13	1	DZ2	5V1W
14	2	D1, D2	BYV28-200
15	2	D3, D4	BYV27-200
16	1	D5	1N4004
17	1	D6	11DQ06
18	1	FIX1	FIX35
19	2	JP1, JP2	MOLEX4
20	3	L1, L2, L3	VK200
21	1	Q1	IRF640N
22	1	Q2	BC237
23	3	R1, R6, R10	1K
24	1	R2	100R
25	1	R4	R
26	1	R5	22R
27	1	R7	R12-2W
28	1	R8	7K5
29	1	R9	2k2
30	1	R11	220K
31	1	R12	1K2
32	1	T1	TSWTCH15
33	1	U1	UC3843AN



Telemetry board Revised: Wednesday, February 25, 2004
SLTLMTXLCD03 Revision: 02
TEX-LCD/RXRL-LCD/PTRL-LCD
RVR0

Andrea Tommasi

Item	Quantity	Reference	Part	Description
1	1	CN1	DB15FSO	Connettore DB15 femm. cs 90°
2	1	CN2	BNC_IS90	Connettore BNC metallico 90°
3	1	CS1	CSTLMTXLCD02	Circuito stampato
4	6	C1, C2, C3, C4, C5, C6	0.1uF	Cond. ceramico p 5mm
5	2	C7, C8	100pF	Cond. ceramico p 5mm
6	7	C9, C10, C11, C12, C13, C14, C15	10nF	Cond. ceramico p 5mm
7	4	D1, D2, D5, D6	1N4148	Diode in vetro DO35
8	2	D3, D4	BAT83	Diode Hot carrier DO35
9	1	JP1	CN16PD	Connettore 16 poli Flat cs
10	1	JP2	STM03S	Strip maschio 3 pin
11	1	JP3	STM05S	Strip maschio 5 pin
12	2	JP4, JP5	JUM	Ponticello Jumper Nota 1
13	2	RV1, RV2	20K	Trimmer Rg H 3006
14	2	RY2, RY1	RLTQ2A_12V	Rele' TQ2
15	2	R1, R2	150	Res. 1/4W

Nota 1 Inserire i jumper in posizione:
2-3 in JP2
1-2 in JP3