TEX300-LCD

User Manual

Volume 2: Technical Appendix

Manufactured by R.V.R. ELETTRONICA **Italy**

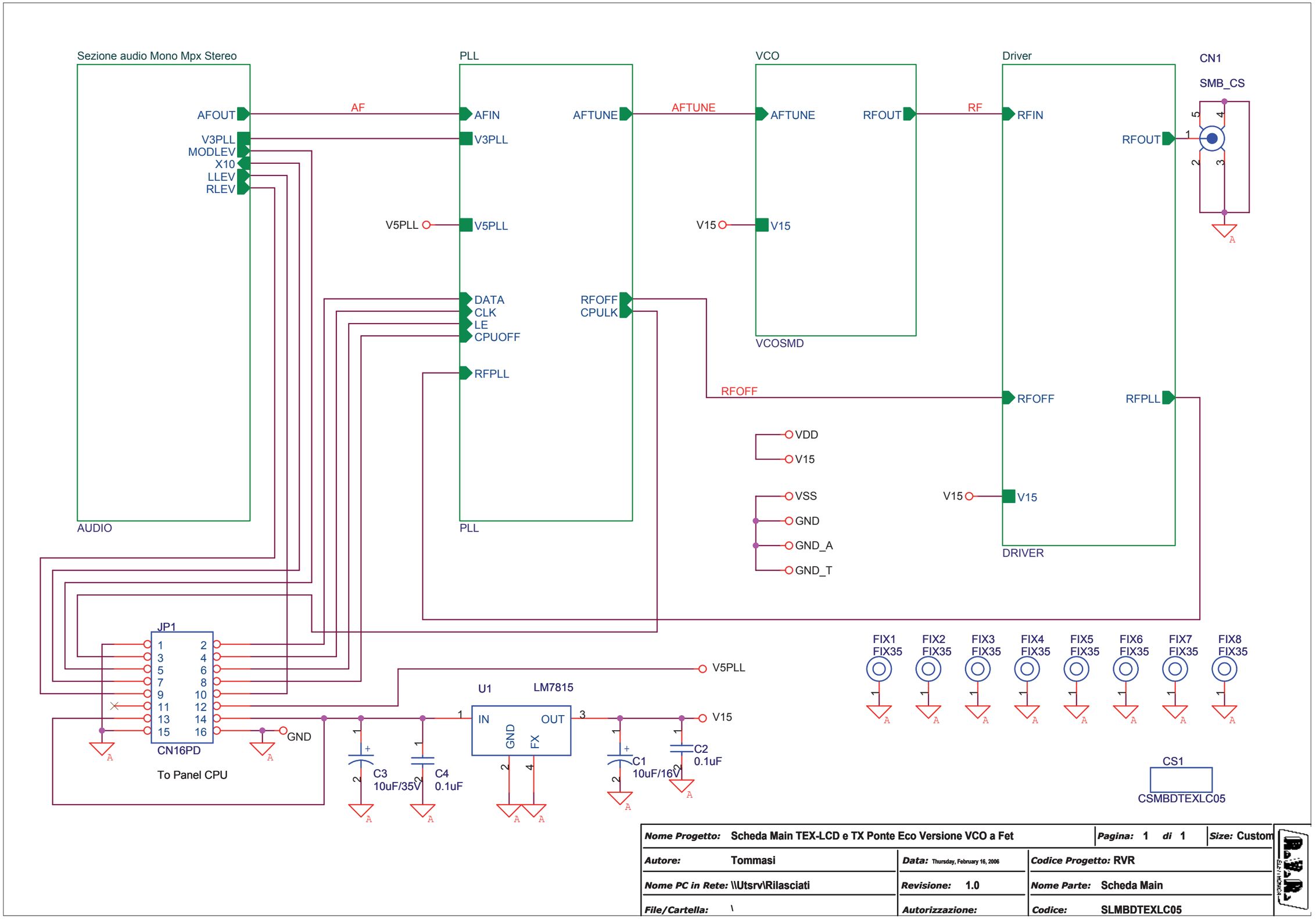
Appendix A Piani di montaggio, schemi elettrici, liste componenti / *Component layouts, schematics, bills of material*

Questa parte del manuale contiene i dettagli tecnici riguardanti la costruzione delle singole schede componenti il TEX300-LCD. L'appendice è composta dalle seguenti sezioni:

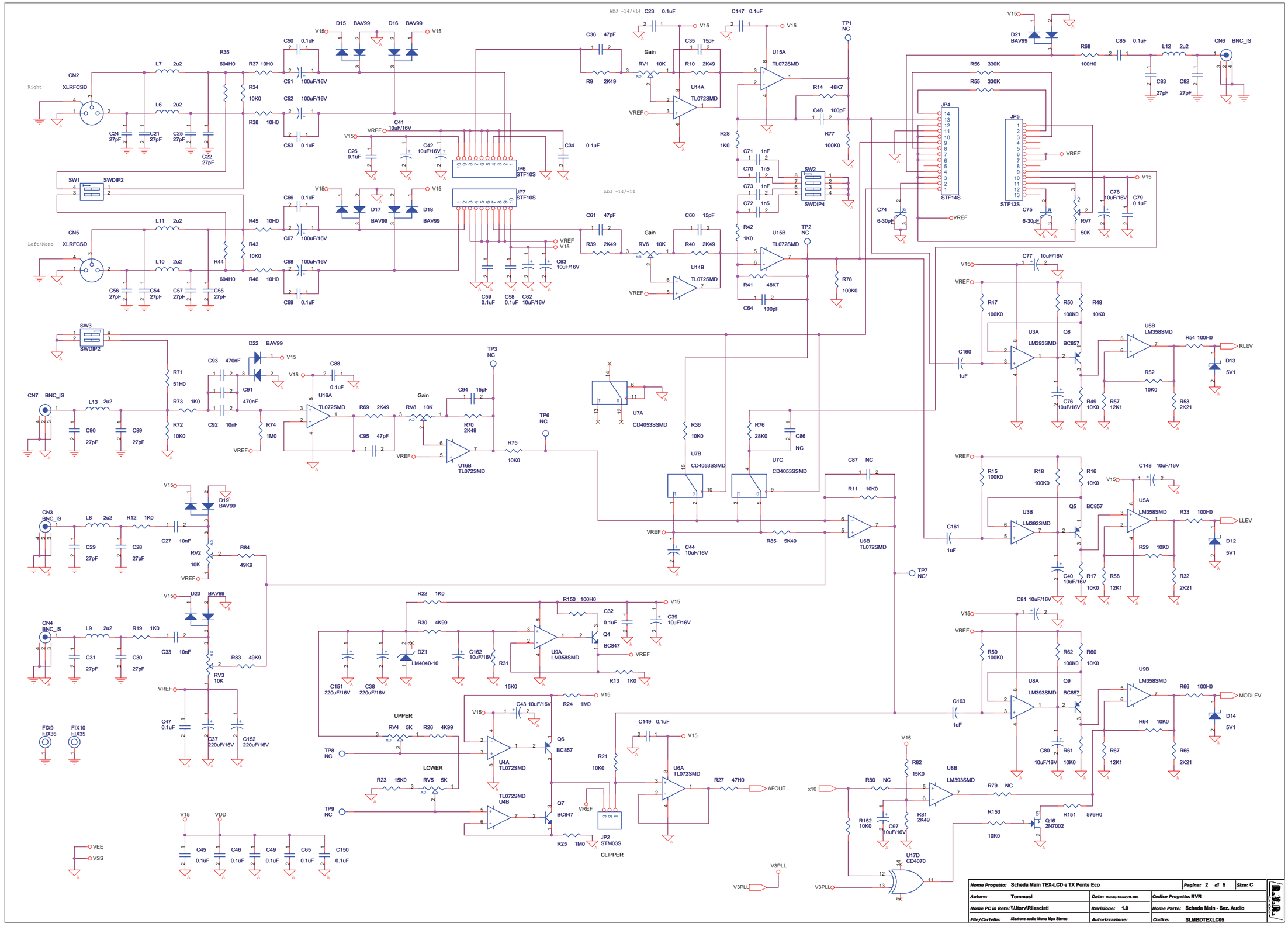
This part of the manual contains the technical details about the different boards of the TEX300-LCD. This appendix is composed of the following sections:

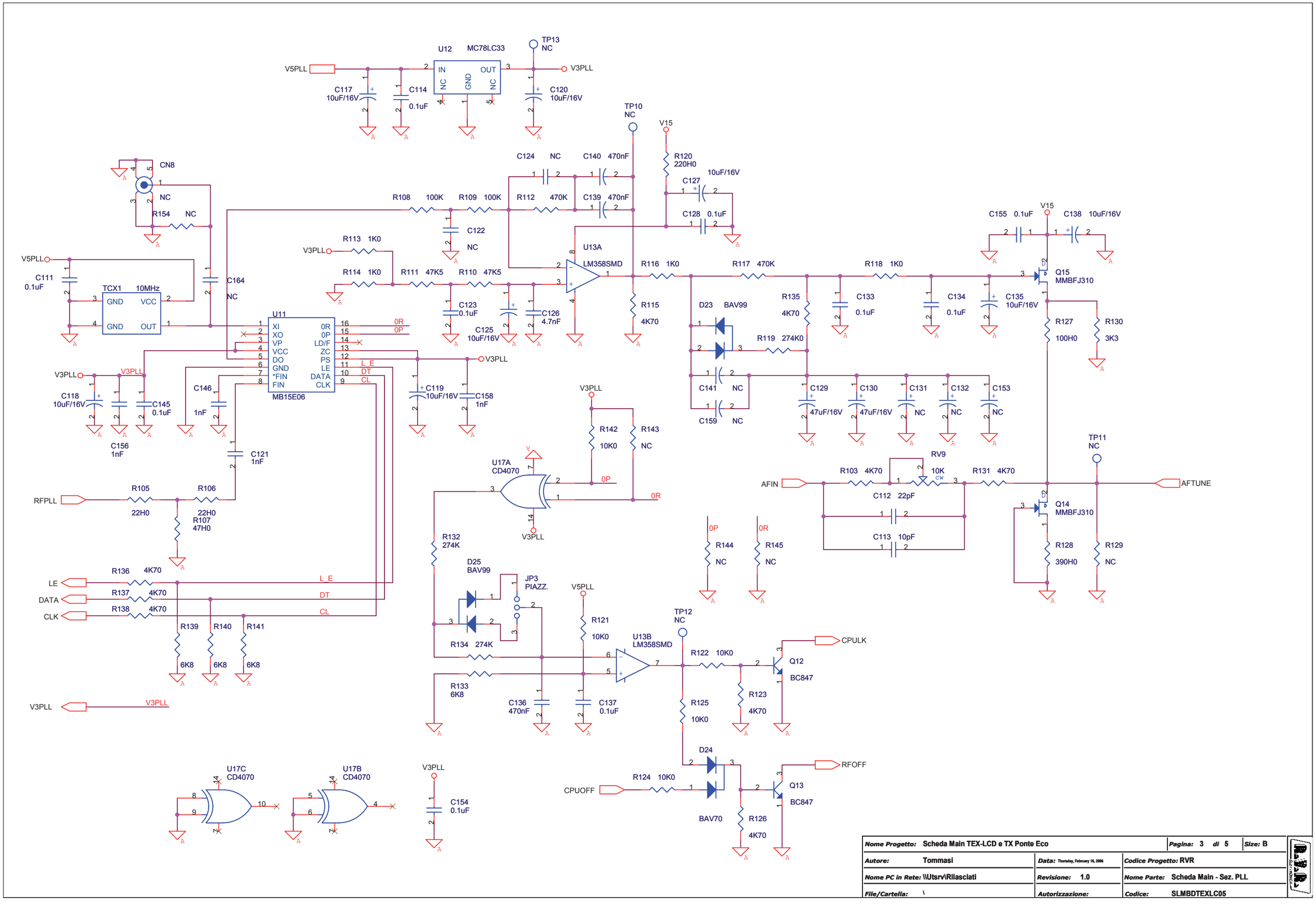
Document History

Date	Version	Reason	Code	Editor
21/02/06	1.0	First A3 Release	N.D.	J.H. Berti

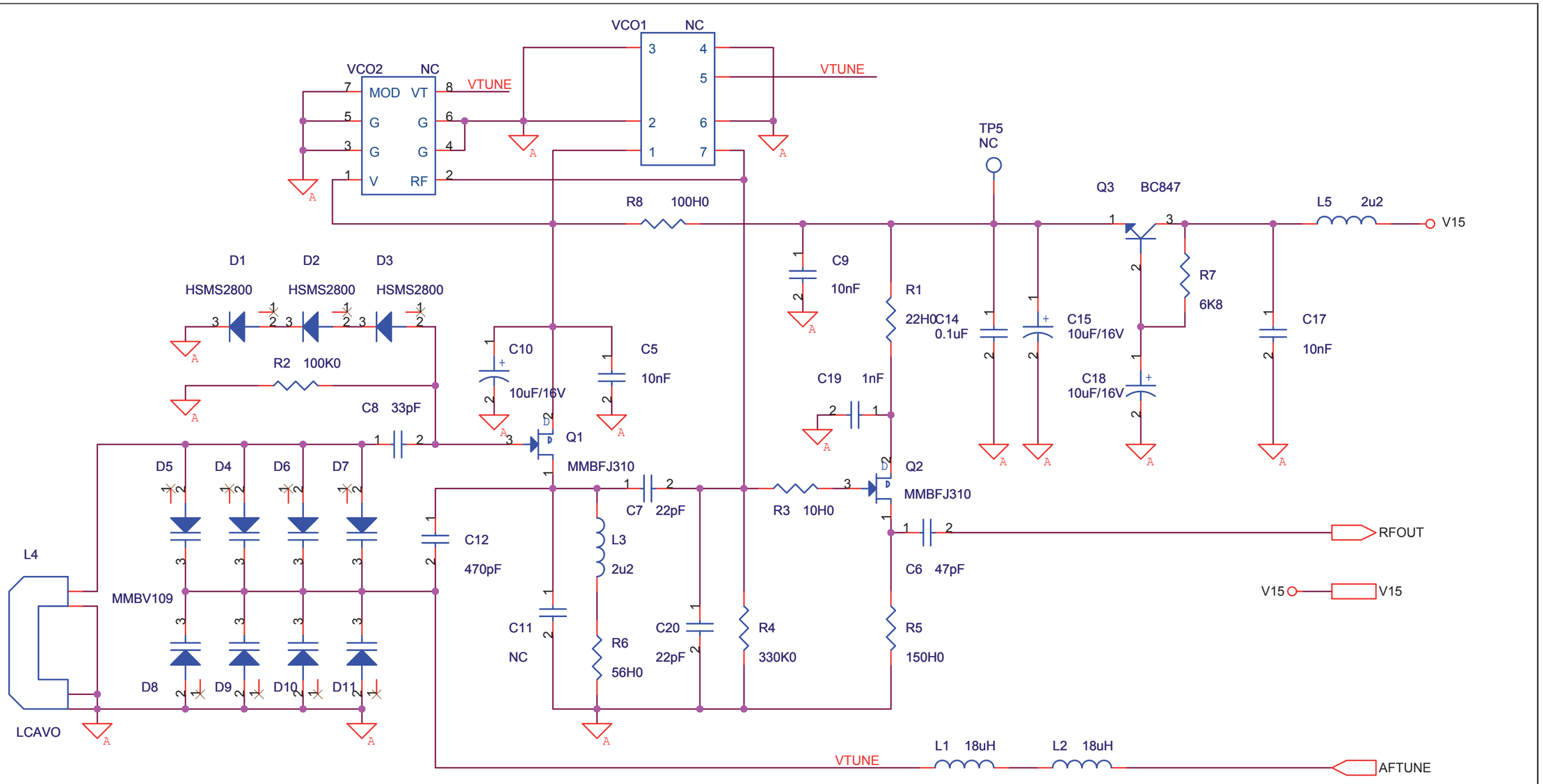


Nome Progetto: Scheda Main TEX-LCD e TX Ponte Eco Versione VCO a Fet		**Pagina:** 1 di 1	**Size:** Custom
Autore: Tommasi	**Data:** Thursday, February 16, 2006	**Codice Progetto:** RVR	
Nome PC in Rete: \\Utsrv\Rilasciati	**Revisione:** 1.0	**Nome Parte:** Scheda Main	
File/Cartella: \	**Autorizzazione:**	**Codice:** SLMBDTEXLC05	


CN2 XLRFCSD Right
CN5 XLRFCSD Left/Mono
CN7 BNC_IS
CN3 BNC_IS
CN4 BNC_IS
SW1 SWDIP2
SW3 SWDIP2
SW2 SWDIP4
JP1 STF10S
JP2 STM03S CLIPPER
JP3 STF10S
JP4 STF14S
JP5 STF13S
JP6 STF10S
JP7 STF10S
U7A CD4053SSMD
U7B CD4053SSMD
U7C CD4053SSMD
U15A TL072SMD
U15B TL072SMD
U14A TL072SMD
U14B TL072SMD
U16A TL072SMD
U16B TL072SMD
U4A TL072SMD
U4B TL072SMD
U6A TL072SMD
U6B TL072SMD
U3A LM393SMD
U3B LM393SMD
U8A LM393SMD
U8B LM393SMD
U5A LM358SMD
U5B LM358SMD
U9A LM358SMD
U9B LM358SMD
U17D CD4070
Q4 BC847
Q5 BC857
Q6 BC857
Q7 BC847
Q8 BC857
Q9 BC857
Q16 2N7002
D13 5V1
D14 5V1
D12 5V1
DZ1 LM4040-10
TP1 NC
TP2 NC
TP3 NC
TP6 NC
TP7 NC*
TP8 NC
TP9 NC
RLEV
LLEV
MODLEV
AFOUT
V3PLL
VREF
VEE
VSS
VDD
FIX9 FIX35
FIX10 FIX35
Gain
UPPER
LOWER
ADJ -14/+14
Nome Progetto: Scheda Main TEX-LCD e TX Ponte Eco
Pagina: 2 di 5
Size: C
Autore: Tommasi
Data: Thursday, February 16, 2006
Codice Progetto: RVR
Nome PC in Rete: \\Utsrv\Rilasciati
Revisione: 1.0
Nome Parte: Scheda Main - Sez. Audio
File/Cartella: /Sezione audio Mono Mpx Stereo
Autorizzazione:
Codice: SLMBDTEXLC05

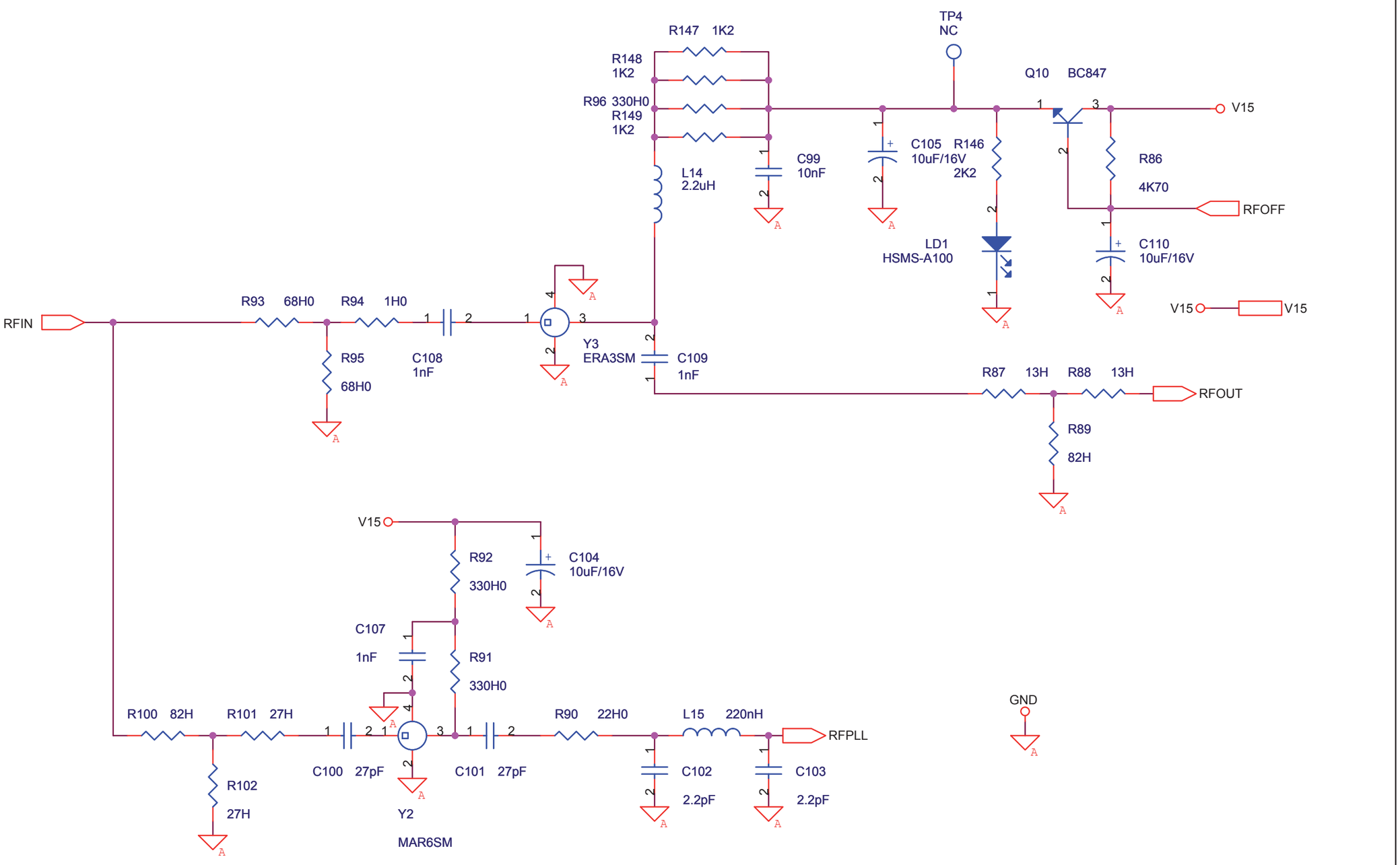


Nome Progetto: Scheda Main TEX-LCD e TX Ponte Eco		**Pagina:** 3 di 5	**Size:** B
Autore: Tommasi	**Data:** Thursday, February 16, 2006	**Codice Progetto:** RVR	
Nome PC in Rete: \\Utsrv\Rilasciati	**Revisione:** 1.0	**Nome Parte:** Scheda Main - Sez. PLL	
File/Cartella: \	**Autorizzazione:**	**Codice:** SLMBDTEXLC05	

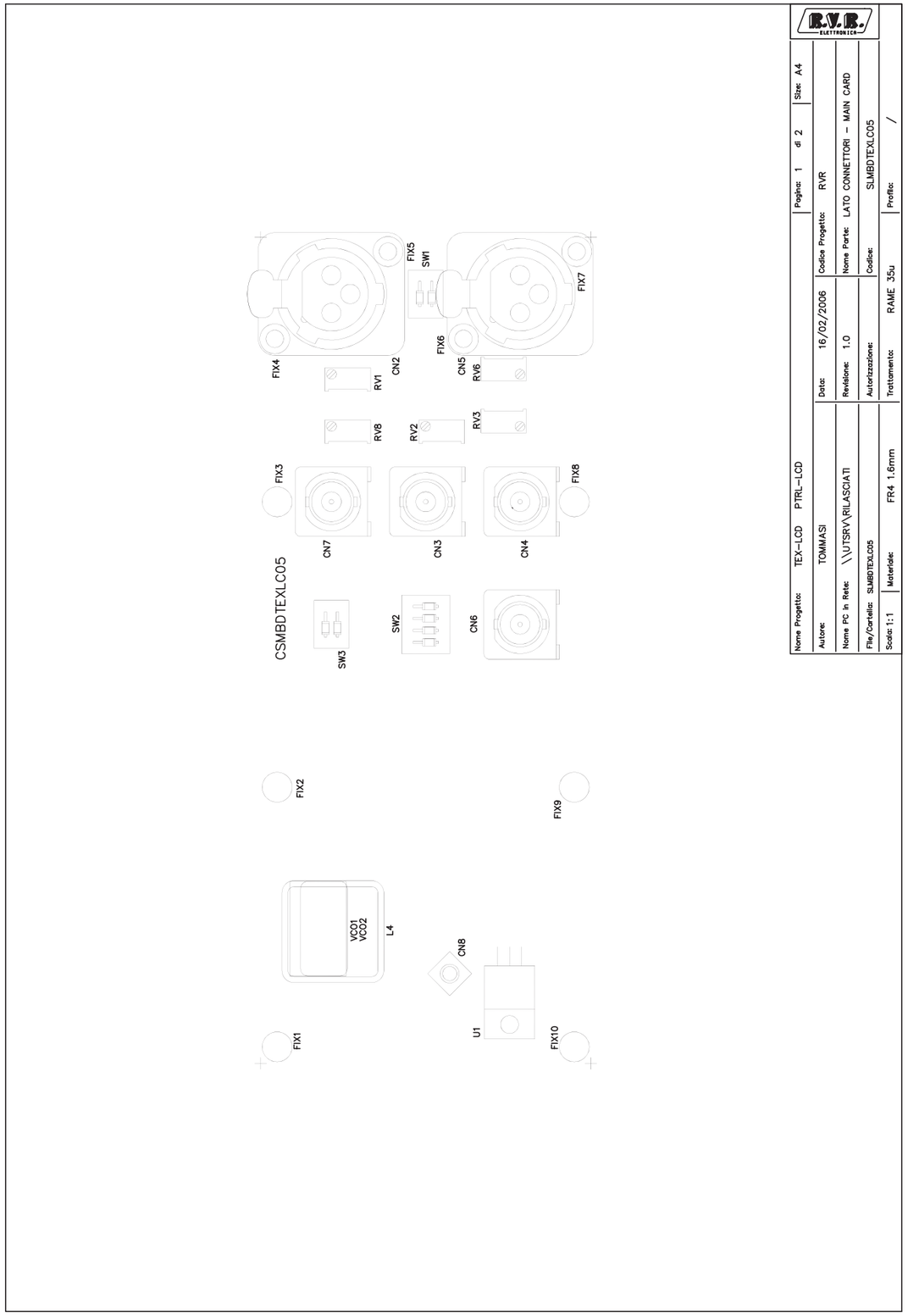


Il cavo e' montato lato saldature

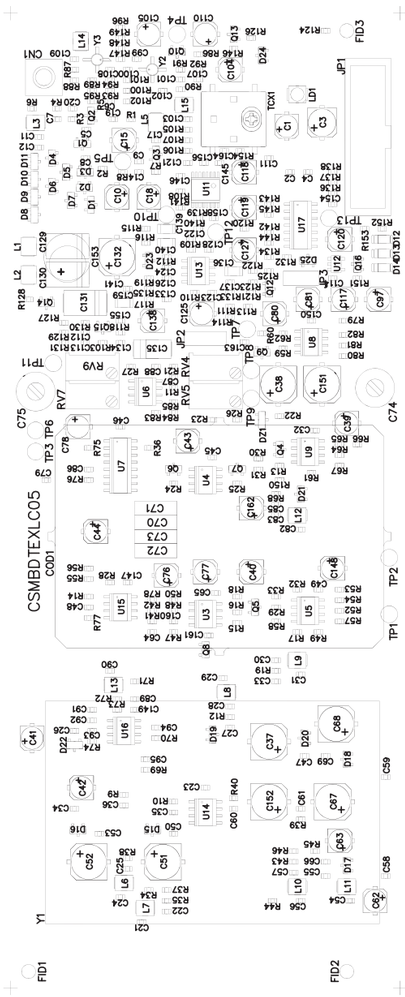
Nome Progetto:	Scheda Main TEX-LCD e TX Ponte Eco			**Pagina:** 4 di 5	**Size:** A
Autore:	Tommasi	**Data:** Thursday, February 16, 2006		**Codice Progetto:** RVR	
Nome PC in Rete:	\\Utsrv\Rilasciati	**Revisione:** 1.0		**Nome Parte:** Scheda Main - Sez. VCO	
File/Cartella:	/VCO	**Autorizzazione:**		**Codice:** SLMBDTEXLC05	



Nome Progetto:	Scheda Main TEX-LCD e TX Ponte Eco			**Pagina:** 5 di 5	**Size:** A
Autore:	Tommasi	**Data:** Thursday, February 16, 2006		**Codice Progetto:** RVR	
Nome PC in Rete:	\\Utsrv\Rilasciati	**Revisione:**	1.0	**Nome Parte:**	Scheda Main - Sez. Driver
File/Cartella:	/Driver	**Autorizzazione:**		**Codice:**	SLMBDTEXLC05



Nome Progetto:	TEX-LCD PTRL-LCD		Pagina: 1 di 2	Size: A4	
Autore:	TOMMASI	Data: 16/02/2006	Codice Progetto: RVR		
Nome PC in Rete:	\\UTSRV\RILASCIATI	Revisione: 1.0	Nome Parte: LATO CONNETTORI - MAIN CARD		
File/Cartella:	SLMBDTEXLC05	Autorizzazione:	Codice: SLMBDTEXLC05		
Scala: 1:1	Materiale: FR4 1.6mm	Trattamento: RAME 35u	Profilo: /		

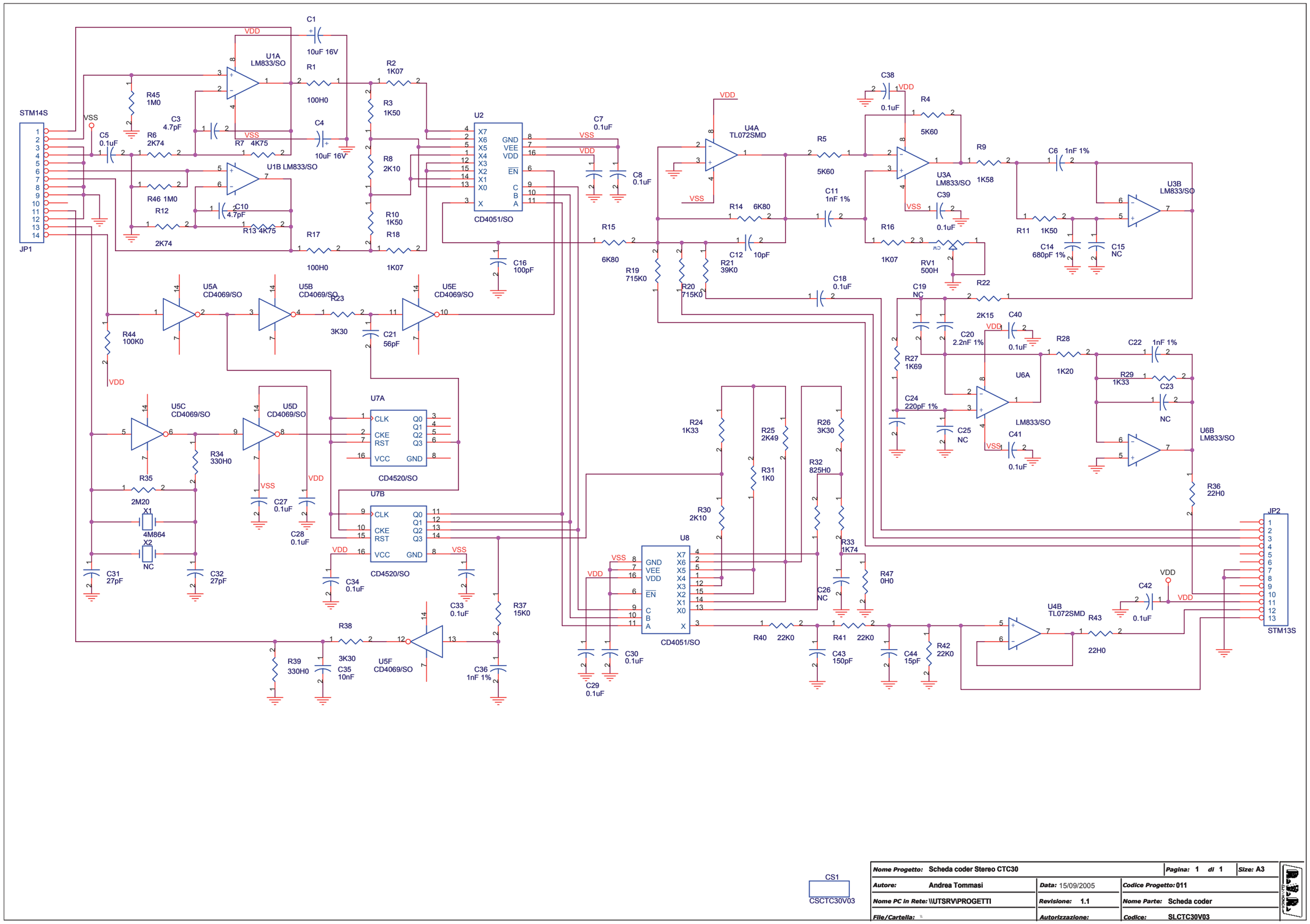


Nome Progetto:	TEX-LCD PTRL-LCD		Pagina: 2 di 2	Size: A4	
Autore:	TOMMASI	Data: 16/02/2006	Codice Progetto: RVR		
Nome PC in Rete:	\\UTSRV\RILASCIATI	Revisione: 1.0	Nome Parte: LATO COMPONENTI - MAIN CARD		
File/Cartella:	SLMBDTEXLC05	Autorizzazione:	Codice: SLMBDTEXLC05		
Scala: 1:1	Materiale: FR4 1.6mm	Trattamento: RAME 35u	Profilo: /		

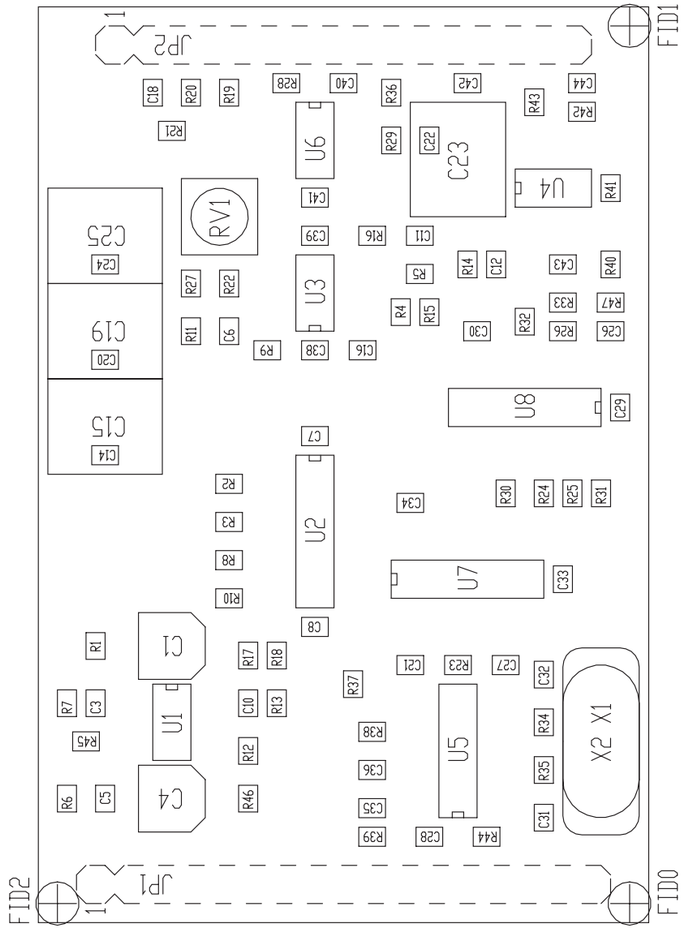
Scheda Main
SLMBDTEXLC05
Revision: 1.0 Date: 16/02/2006
Tommasi

Item	Quantity	Reference	Part	Description	RVR Code
1	1	CN1	SMB_CS	Connettore SMB cs	CNTSMBMCSD
2	2	CN2,CN5	XLRFCSD	Connettore XLR femm. cs	CNTXLRFCS3P
3	4	CN3,CN4,CN6,CN7	BNC_IS	Connettore BNC metallico	CNTBNCFCSDM
4	1	CN8	NC	Connettore SMB cs	
5	1	CS1	CSMBDTEXLC05	Circuito stampato	CSMBDTEXLC05
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	CES106A160
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	CCC085104KXC
8	1	C3	10uF/35V	Cond. Elett. SMD d. 4mm	CES106B350
9	7	C5,C9,C17,C27,C33,C92, C99	10nF	Cond. SMD 0805	CCC085103KXC
10	4	C6,C36,C61,C95	47pF	Cond. SMD 0805	CCC085470JCC
11	3	C7,C20,C112	22pF	Cond. SMD 0805	CCC085220JCC
12	1	C8	33pF	Cond. SMD 0805	CCC085330JCC
13	6	C11,C86,C87,C122,C124, C164	NC	Cond. SMD 0805	
14	1	C12	470pF	Cond. SMD 0805	CCC085471JCC
15	8	C19,C107,C108,C109,C121, C146,C156,C158	1nF	Cond. SMD 0805	CCC085102JNC
16	18	C21,C22,C24,C25,C28,C29, C30,C31,C54,C55,C56,C57, C82,C83,C89,C90,C100, C101	27pF	Cond. SMD 0805	CCC085270JCC
17	3	C35,C60,C94	15pF	Cond. SMD 0805	CCC085150JCC
18	4	C37,C38,C151,C152	220uF/16V	Cond. Elett. SMD d. 6.3mm	CES227E160
19	2	C48,C64	100pF	Cond. SMD 0805	CCC085101JCC
20	4	C51,C52,C67,C68	100uF/16V	Cond. Elett. SMD d. 6.3mm	CES107C160
21	2	C70,C72	1n5	Cond.Poliestere p 5mm 5%	CPE152JC101
22	2	C71,C73	1nF	Cond.Poliestere p 5mm 5%	CPE102JC630
23	2	C74,C75	6-30pF	Comp. ceramico dia. 7mm	CVC300D07
24	3	C91,C93,C136	470nF	Cond. SMD 0805	CCC085474KXB
25	2	C102,C103	2.2pF	Cond. SMD 0805	CCC0852P2JCC
26	1	C113	10pF	Cond. SMD 0805	CCC085100JCC
27	1	C126	4.7nF	Cond. SMD 0805	CCC085472KXC
28	2	C129,C130	47uF/16V	Cond. Tant. SMD size C	
29	3	C131,C132,C153	NC	Cond. Elett. SMD d. 6.3mm	
30	1	C135	10uF/16V	Cond. Tant. size C	
31	2	C139,C140	470nF	Cond. SMD 1206	CCC126474KXC
32	2	C141,C159	NC	Cond. SMD 1206	
33	3	C160,C161,C163	1uF	Cond. SMD 0805	CCC085105KYC
34	1	DZ1	LM4040-10	Diodi Zener SMD SOT23	CILLM4040-10
35	3	D1,D2,D3	HSMS2800	Diodo SMD SOT23	DISHSMS2800
36	8	D4,D5,D6,D7,D8,D9,D10, D11	MMBV109	Diodo Varicap SMD SOT23	DIVMMBV109
37	3	D12,D13,D14	5V1	MINIMELF SMD Zener Diode	DIZ5V1MINI
38	10	D15,D16,D17,D18,D19,D20, D21,D22,D23,D25	BAV99	Doppio Diodo SMD SOT23	DISBAV99
39	1	D24	BAV70	Doppio Diodo SMD SOT23	DISBAV70
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	CNTMCS16A
42	1	JP2	STM03S	Strip maschio 3 pin	
43	1	JP3	PIAZZ.	Jumper SMD	
44	1	JP4	STF14S	Strip femmina 14 pin	CNTSTF14SDB
45	1	JP5	STF13S	Strip femmina 13 pin	CNTSTF13SDB
46	2	JP6,JP7	STF10S	Strip femmina 10 pin	
47	1	LD1	HSMS-A100	LED dia. 5mm	LEDRSMDPLCC2
48	2	L1,L2	18uH	Induttanza SMD 1210 scherm.	IMP18US126S
49	10	L3,L5,L6,L7,L8,L9,L10, L11,L12,L13	2u2	Induttanza SMD 3225 (1210)	IMP2U2S120
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)	IMP220NS120
53	4	Q1,Q2,Q14,Q15	MMBFJ310	Trans. FET SOT23	TRNMMBFJ310
54	6	Q3,Q4,Q7,Q10,Q12,Q13	BC847	Trans. NPN SOT23	TRNBC847
55	4	Q5,Q6,Q8,Q9	BC857	Trans. PNP SOT23	TRNBC857
56	1	Q16	2N7002	Trans. FET SOT23	TRN2N7002SMD
57	5	RV1,RV2,RV3,RV6,RV8	10K	Trimmer Rg H 3296X	RVT3296WK010
58	2	RV4,RV5	5K	Trimmer Rg V 3296W	RVT3296WK005
59	1	RV7	50K	Trimmer Rg V 3296W	RVT3296WK050
60	1	RV9	10K	Trimmer Rg V 3296W	
61	4	R1,R90,R105,R106	22H0	Res. SMD 0805	RCH085F0022H
62	11	R2,R15,R18,R47,R50,R59, R62,R77,R78,R108,R109	100K0	Res. SMD 0805	RCH085F0100K
63	5	R3,R37,R38,R45,R46	10H0	Res. SMD 0805	RCH085F0010H
64	3	R4,R55,R56	330K	Res. SMD 0805	RCH085F0330K
65	1	R5	150H0	Res. SMD 0805	RCH085F0150H
66	1	R6	56H0	Res. SMD 0805	RCH085F0056H
67	5	R7,R133,R139,R140,R141	6K8	Res. SMD 0805	RCH085F006K8
68	6	R8,R33,R54,R66,R68,R127	100H0	Res. SMD 0805	RCH085F0100H
69	7	R9,R10,R39,R40,R69,R70, R81	2K49	Res. SMD 0805	RCH085F02K49
70	21	R11,R16,R17,R21,R29,R34, R36,R43,R48,R49,R52,R60, R61,R64,R72,R75,R121, R122,R124,R125,R142	10K0	Res. SMD 0805	RCH085F0010K
71	11	R12,R13,R19,R22,R28,R42, R73,R113,R114,R116,R118	1K0	Res. SMD 0805	RCH085F0001K
72	2	R14,R41	48K7	Res. SMD 0805	RCH085F048K7
73	3	R23,R31,R82	15K0	Res. SMD 0805	RCH085F0015K
74	3	R24,R25,R74	1M0	Res. SMD 0805	RCH085F0001M
75	2	R26,R30	4K99	Res. SMD 0805	RCH085F04K99
76	2	R27,R107	47H0	Res. SMD 0805	RCH085F0047H
77	3	R32,R53,R65	2K21	Res. SMD 0805	RCH085F002K2
78	2	R35,R44	604H0	Res. SMD 0805	RCH085F0604H
79	3	R57,R58,R67	12K1	Res. SMD 0805	RCH085F0012K
80	1	R71	51H0	Res. SMD 0805	RCH085F0051H
81	1	R76	28K0	Res. SMD 0805	RCH085F0028K
82	7	R79,R80,R129,R143,R144,	NC	Res. SMD 0805	

		R145,R154			
83	2	R83,R84	49K9	Res. SMD 0805	RCH085F049K9
84	1	R85	5K49	Res. SMD 0805	RCH085F05K49
85	10	R86,R103,R115,R123,R126, R131,R135,R136,R137,R138	4K70	Res. SMD 0805	RCH085F004K7
86	2	R87,R88	13H	Res. SMD 0805	RCH085F0013H
87	2	R89,R100	82H	Res. SMD 0805	RCH085F0082H
88	3	R91,R92,R96	330H0	Res. SMD 0805	RCH085F0330H
89	2	R93,R95	68H0	Res. SMD 0805	RCH085F0068H
90	1	R94	1H0	Res. SMD 0805	RCH085F0001H
91	2	R101,R102	27H	Res. SMD 0805	RCH085F0027H
92	2	R110,R111	47K5	Res. SMD 0805	RCH085F047K5
93	2	R112,R117	470K	Res. SMD 0805	RCH085F0470K
94	3	R119,R132,R134	274K0	Res. SMD 0805	RCH085F0270K
95	1	R120	220H0	Res. SMD 0805	RCH085F0220H
96	1	R128	390H0	Res. SMD 0805	RCH085F0390H
97	1	R130	3K3	Res. SMD 0805	RCH085F003K3
98	1	R146	2K2	Res. SMD 0805	RCH085F002K2
99	3	R147,R148,R149	1K2	Res. SMD 0805	RCH085F001K2
100	1	R150	100H0	Res. SMD 0805	RCH085F0100H
101	1	R151	576H0	Res. SMD 0805	RCH085F0576H
102	2	R152,R153	10K0	Res. SMD 0805	RCH085F0010K
103	2	SW1,SW3	SWDIP2	Dip switch 2 vie	DSW2VO
104	1	SW2	SWDIP4	Dip switch 4 vie	DSW4VO
105	1	TCX1	10MHz	TCXO SMD	QRZ000010MF
106	12	TP1,TP2,TP3,TP4,TP5,TP6, TP8,TP9,TP10,TP11,TP12, TP13	NC	Test point	
107	1	TP7	NC*	Test point	
108	1	U1	LM7815	Stabilizzatore TO220	CIL7815P
109	2	U3,U8	LM393SMD	Dual Comp. SMD SO8	CILLM393SMD
110	5	U4,U6,U14,U15,U16	TL072SMD	Dual Op. SMD SO8	CILTL072SMD
111	3	U5,U9,U13	LM358SMD	Dual Op. SMD SO8	CILLM358SMD
112	1	U7	CD4053SSMD	Analog Switch SMD SO16	CID4053SMD
113	1	U11	MB15E06	Integrated PLL	CIDMB15E06SM
114	1	U12	MC78LC33	Stab. SMD SOT23-5	CIL78LC33
115	1	U17	CD4070	Quad. XOR port	CID4070SMD
116	1	VCO1	NC	VCO SKY 7 pin FVC7MD	
117	1	VCO2	NC	VCO SKY 8 pin FVC7MD	
118	1	Y2	MAR6SM	Ibrido MAR/ERA	MIBMAR6SMD
119	1	Y3	ERA3SM	Ibrido MAR/ERA	MIBERA3-SM



Nome Progetto: Scheda coder Stereo CTC30		**Pagina:** 1 di 1	**Size:** A3
Autore: Andrea Tommasi	**Data:** 15/09/2005	**Codice Progetto:** 011	
Nome PC in Rete: \\UTSRV\PROGETTI	**Revisione:** 1.1	**Nome Parte:** Scheda coder	
File/Cartella:	**Autorizzazione:**	**Codice:** SLCTC30V03	



NOME PARTE: SCHEDA CODER STEREO CTC30					
DATA: 08/04/2004	REVISIONE: 1.0	SCALA: 2:1	SIZE: A4	PAGINA: 1 DI 1	
CODICE PROGETTO: 011	CODICE DISEGNO: SLCTC30V03				
PROFILO: /	STATO: ESECUTIVO				

NOME PROGETTO:	SCHEDA CODER STEREO CTC30
AUTORE:	TOMMASI
ARCHIVIAZIONE ELETTRONICA:	"CARTELLA PROGETTI" SU "UT_SRV"
MATERIALE:	FR4-74 1.6mm Cu 35um
CODICE PROGETTO:	011
TRATTAMENTO:	STANDARD COSTRUTTORE

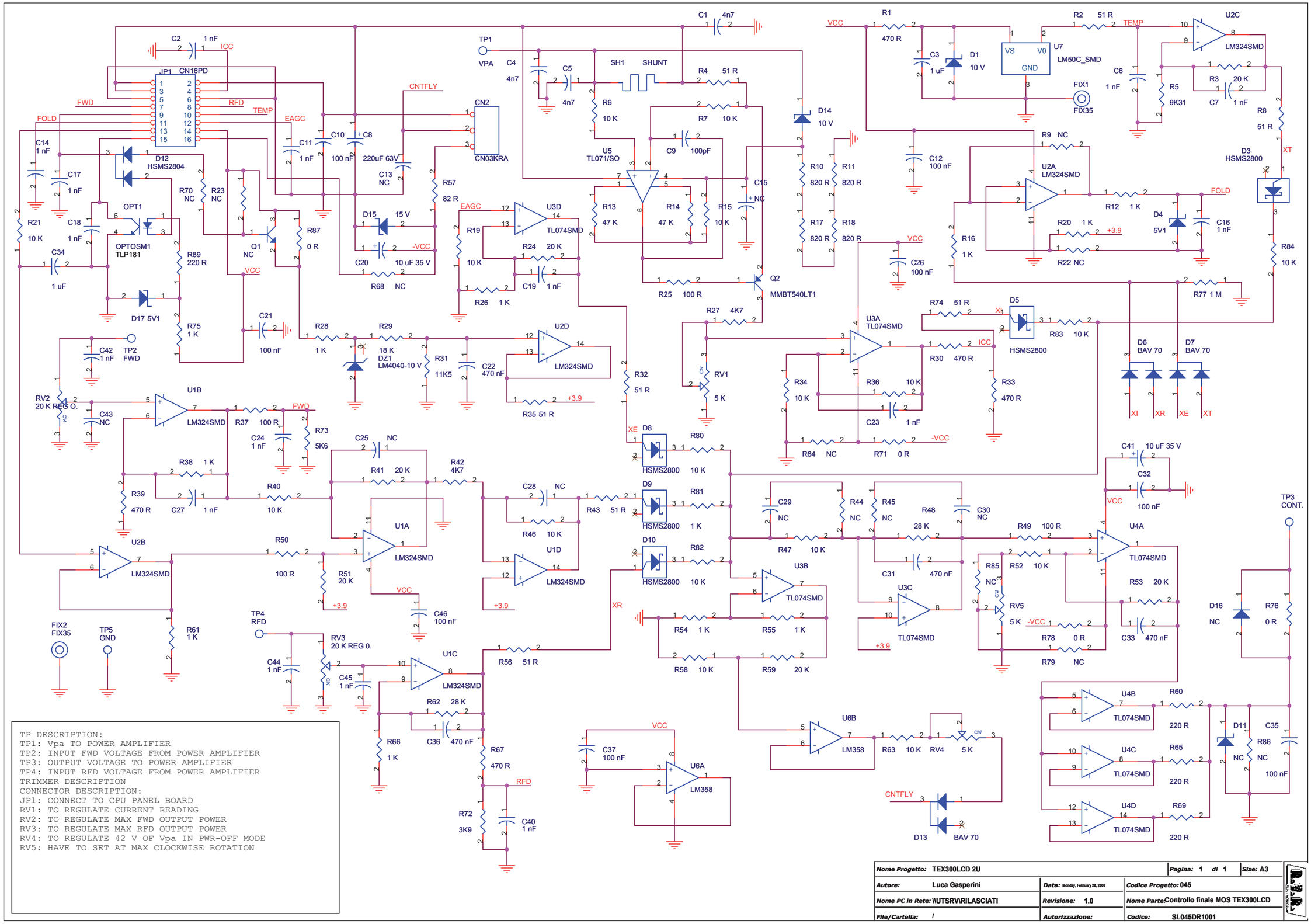
Scheda coder Revised: Thursday, September 15, 2005
SLCTC30V03 Revision: 1.1
Scheda coder Stereo CTC30
11
Andrea Tommasi

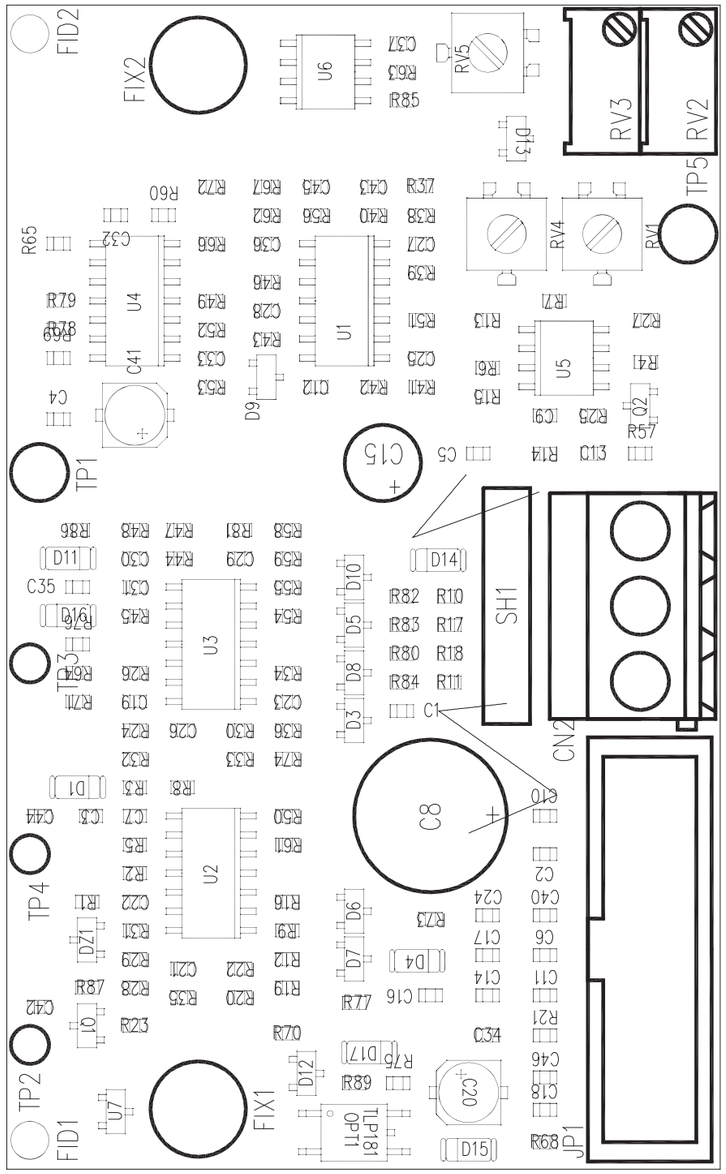
Item	Q.ty	Reference	Part	Description	
1	1	CS1	CSCTC30V03	Circuito stampato	
2	2	C1, C4	10uF 16V	Cond. Elett. SMD d. 4mm	
3	2	C3, C10	4.7pF	Cond. SMD 0805	
4	15	C5, C7, C8, C18, C27, C28, C29, C30, C33, C34, C38, C39, C40, C41, C42	0.1uF	Cond. SMD 0805	
5	4	C6, C11, C22, C36	1nF 1%	Cond. SMD 0805 COG	**Nota 1**
6	1	C12	10pF	Cond. SMD 0805	
7	1	C14	680pF 1%	Cond. SMD 0805 COG	**Nota 1**
8	4	C15, C19, C23, C25	NC	Cond. Poliestere p 5mm (5*7mm)	
9	1	C16	100pF	Cond. SMD 0805	
10	1	C20	2.2nF 1%	Cond. SMD 0805 COG	**Nota 1**
11	1	C21	56pF	Cond. SMD 0805	
12	1	C24	220pF 1%	Cond. SMD 0805 COG	**Nota 1**
13	1	C26	NC	Cond. SMD 0805	
14	2	C31, C32	27pF	Cond. SMD 0805	
15	1	C35	10nF	Cond. SMD 0805	
16	1	C43	150pF	Cond. SMD 0805	
17	1	C44	15pF	Cond. SMD 0805	
18	1	JP1	STM14S	Strip maschio 14 pin	
19	1	JP2	STM13S	Strip maschio 13 pin	
20	1	RV1	500H	Trimmer SMD	
21	2	R1, R17	100H0	Res. SMD 0805	
22	3	R2, R16, R18	1K07	Res. SMD 0805	
23	3	R3, R10, R11	1K50	Res. SMD 0805	
24	2	R4, R5	5K60	Res. SMD 0805	
25	2	R6, R12	2K74	Res. SMD 0805	
26	2	R7, R13	4K75	Res. SMD 0805	
27	2	R8, R30	2K10	Res. SMD 0805	
28	1	R9	1K58	Res. SMD 0805	
29	2	R14, R15	6K80	Res. SMD 0805	
30	2	R19, R20	715K0	Res. SMD 0805	
31	1	R21	39K0	Res. SMD 0805	
32	1	R22	2K15	Res. SMD 0805	
33	3	R23, R26, R38	3K30	Res. SMD 0805	
34	2	R24, R29	1K33	Res. SMD 0805	
35	1	R25	2K49	Res. SMD 0805	
36	1	R27	1K69	Res. SMD 0805	
37	1	R28	1K20	Res. SMD 0805	
38	1	R31	1K0	Res. SMD 0805	
39	1	R32	825H0	Res. SMD 0805	
40	1	R33	1K74	Res. SMD 0805	
41	2	R34, R39	330H0	Res. SMD 0805	
42	1	R35	2M20	Res. SMD 0805	
43	2	R36, R43	22H0	Res. SMD 0805	
44	1	R37	15K0	Res. SMD 0805	
45	3	R40, R41, R42	22K0	Res. SMD 0805	
46	1	R44	100K0	Res. SMD 0805	
47	2	R45, R46	1M0	Res. SMD 0805	
48	1	R47	0H0	Res. SMD 0805	
49	3	U1, U3, U6	LM833/SO	Dual Op. SMD SO8	
50	2	U2, U8	CD4051/SO	Analog Switch SMD SO16	
51	1	U4	TL072SMD	Dual Op. SMD SO8	
52	1	U5	CD4069/SO	Hex inverter SO14	
53	1	U7	CD4520/SO	Dual binary counter	**Nota 2**
54	1	X1	4M864	Quarzo SMD HC49SMD	
55	1	X2	NC	Quarzo HC18	

Nota 1	Attenzione COG vanno bene anche al 2%
Nota 2	Non montare PHILIPS
	Tutte le resistenze vanno al 1%
	Tutti i condensatori dove il valore lo consente vogliono NP0

Control Card

SL045DR1001





NOME PARTE: SCHEDA CONTROLLO FINALE MOS					
DATA: 13/04/2005	REVISIONE: 1.0	SCALA: 2:1	SIZE: A4	PAGINA: 1 DI 1	
CODICE PROGETTO: 030	CODICE DISEGNO: CSCNTMOS03				
PROFILO: <>	STATO: PROGETTUALE				
NOME PROGETTO: CONTROLLO FINALE MOS					
AUTORE: L. GASPERINI	CODICE PROGETTO: 030				
ARCHIVIAZIONE ELETTRONICA: "CARTELLA PROGETTI" SU "UT_SRV"					
MATERIALE: <>	TRATTAMENTO: <>				

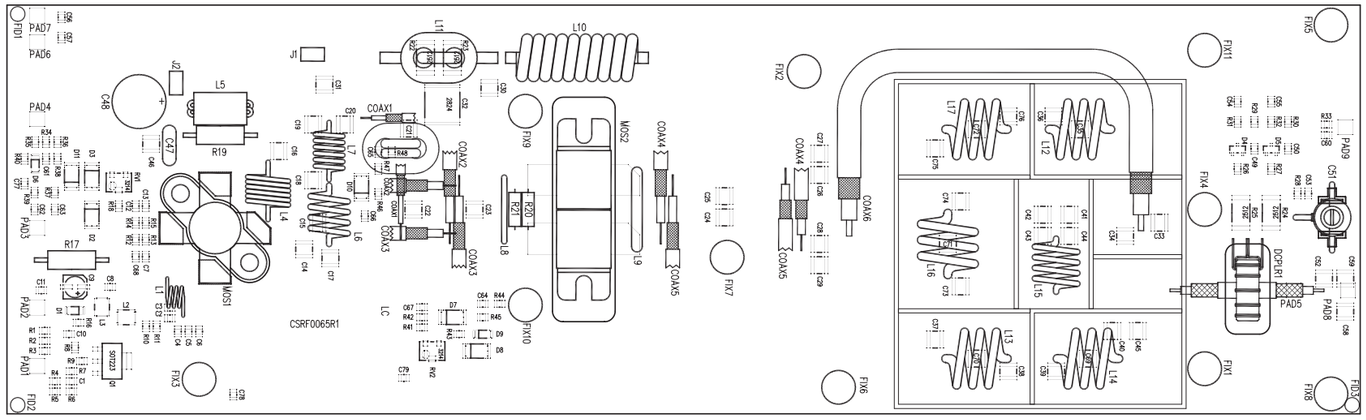
R.V.R. ELETTRONICA

Controllo finale MOS TEX300LCD
20/02/2006 Revision: 1.0
SL045DR1001
Luca Gasperini

Item	Quantity	Reference	Part
1	1	CN2	CN03KRA
2	3	C1, C4, C5	4n7
3	16	C2, C6, C7, C11, C14, C16, C17, C18, C19, C23, C24, C27, C40, C42, C44, C45	1 nF
4	2	C34, C3	1 uF
5	1	C8	220uF 63V
6	1	C9	100pF
7	8	C10, C12, C21, C26, C32, C35, C37, C46	100 nF
8	21	Q1, R9, D11, C13, C15, D16, R22, R23, C25, C28, C29, C30, C43, R44, R45, R64, R68, R70, R79, R85, R86	NC
9	2	C20, C41	10 uF 35 V
10	4	C22, C31, C33, C36	470 nF
11	1	DZ1	LM4040-10 V
12	2	D1, D14	10 V
13	5	D3, D5, D8, D9, D10	HSMS2800
14	2	D4, D17	5V1
15	3	D6, D7, D13	BAV 70
16	1	D12	HSMS2804
17	1	D15	15 V
18	2	FIX1, FIX2	FIX35
19	1	JP1	CN16PD
20	1	OPT1	OPTOSM1
21	1	Q2	MMBT540LT1
22	3	RV1, RV4, RV5	5 K
23	1	RV2	20 K REG O.
24	1	RV3	20 K REG 0.
25	5	R1, R30, R33, R39, R67	470 R
26	8	R2, R4, R8, R32, R35, R43, R56, R74	51 R
27	6	R3, R24, R41, R51, R53, R59	20 K
28	1	R5	9K31
29	17	R6, R7, R15, R19, R21, R34, R36, R40, R46, R47, R52, R58, R63, R80, R82, R83, R84	10 K
30	4	R10, R11, R17, R18	820 R
31	12	R12, R16, R20, R26, R28, R38, R54, R55, R61, R66, R75, R81	1 K
32	2	R13, R14	47 K
33	4	R25, R37, R49, R50	100 R
34	2	R27, R42	4K7
35	1	R29	18 K
36	1	R31	11K5
37	2	R48, R62	28 K
38	1	R57	82 R
39	4	R60, R65, R69, R89	220 R
40	4	R71, R76, R78, R87	0 R
41	1	R72	3K9
42	1	R73	5K6
43	1	R77	1 M
44	1	SH1	SHUNT
45	1	TP1	VPA
46	1	TP2	FWD
47	1	TP3	CONT.
48	1	TP4	RFD
49	1	TP5	GND
50	2	U1, U2	LM324SMD
51	2	U4, U3	TL074SMD
52	1	U5	TL071/SO
53	1	U6	LM358
54	1	U7	LM50C_SMD
55	1	CS1	CSCNTMOS03

PAD DESCRIPTION
PAD1: INPUT RF
PAD2: INPUT +18 Vcc FROM BIAS CONTROL CARD
PAD3: INPUT BIAS VOLTAGE FROM BIAS CONTROL CARD
PAD4: INPUT +50 Vcc FROM BIAS CONTROL CARD
PAD5: PAD FOR CIRCUIT FUNCTIONALLY
PAD6: OUTPUT FWD VOLTAGE FROM DRCP
PAD7: OUTPUT RFD VOLTAGE FROM DRCP
PAD8: OUTPUT POWER
JUMPER DESCRIPTION
J1: PAD TO ADJUST 40mA SD2942_Idq WITH RV2
J2: PAD TO ADJUST 100mA BLF175_Idq WITH RV1

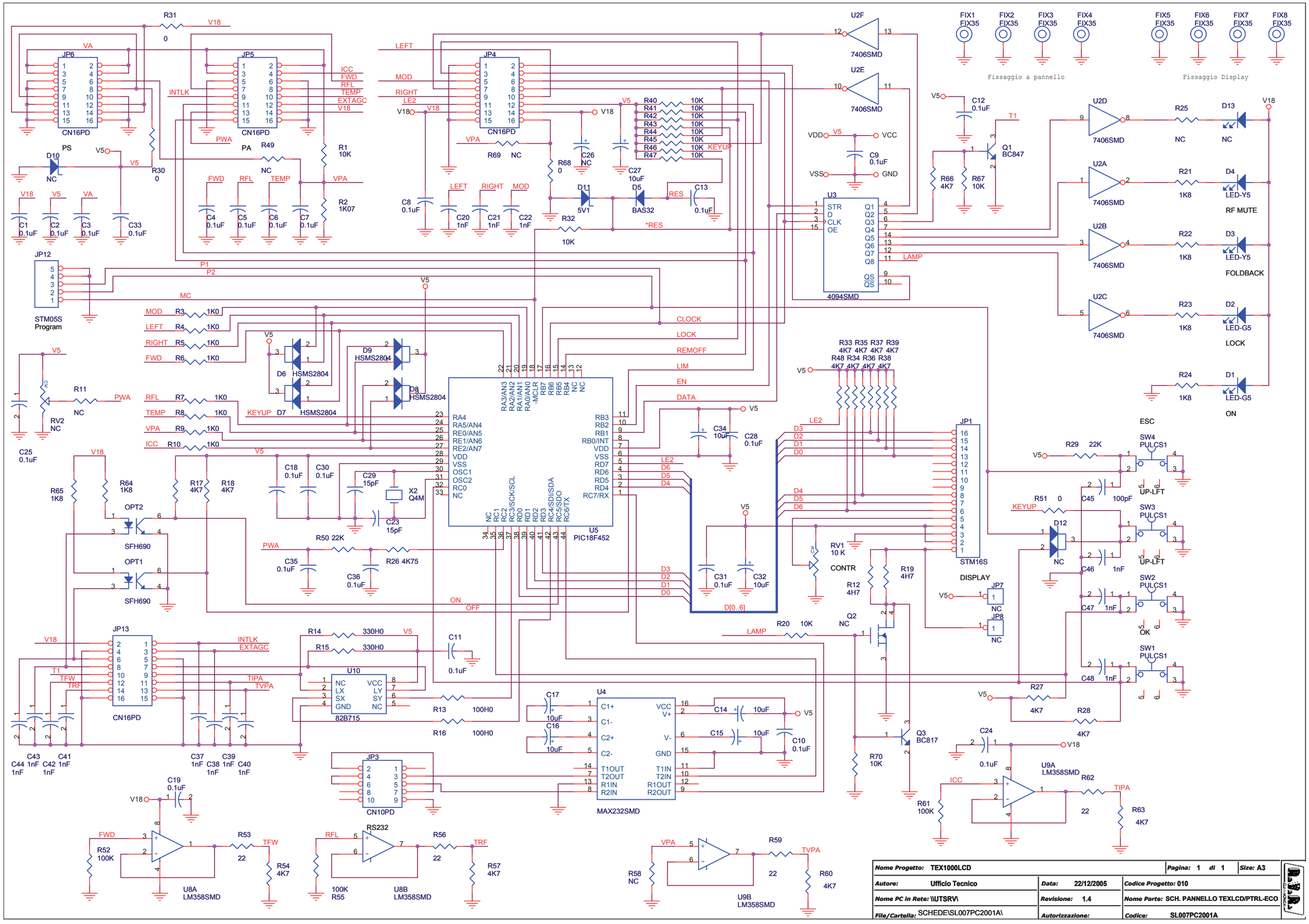
Nome Progetto: TEX300LCD 2 U			Pagina: 1 di 1 Size: A2
Autore: GASPERINI LUCA	Data: Monday, February 20, 2006		Codice Progetto: 045
Nome PC in Rete: \\JTSRVR\LASCIATI\	Revisione: 1.0		Nome Parte: Scheda finale RF TEX300LCD 2U
File/Cartella: \	Autorizzazione:		Codice: SL045RF1001



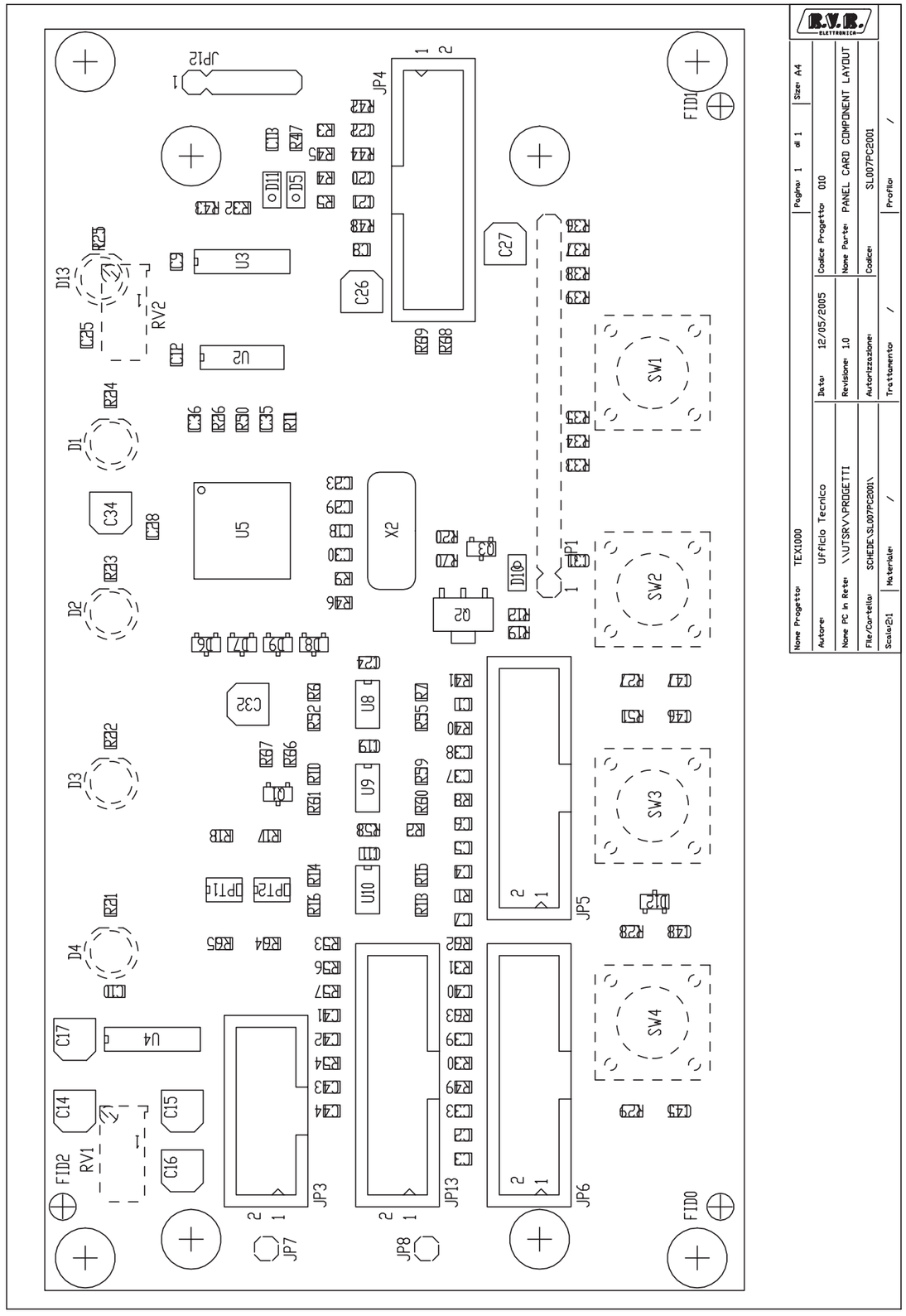
R.V.R. ELETTRONICA	NOME PROGETTO: TEX300LCD 2U			NOME PARTE: FINALE RF TEX300LCD 2U			
	AUTORE: L. GASPERINI			DATA: 20/02/2006	REVISIONE: 1.0	SCALA: 1:1	SIZE: A3	PAGINA: 1 DI 1
ARCHIVIAZIONE ELETTRONICA: "CARTELLA RILASCIATI" SU "UTSRV"			CODICE PROGETTO: 045		CODICE DISEGNO: SL045RF1001		
MATERIALE: <>		TRATTAMENTO: <>			PROFILO: <>		STATO: ESECUTIVO

SL045RF1001 - Scheda finale RF
20/02/2006 Revision: 1.0
TEX300LCD
GASPERINI LUCA

Item	Q.ty	Reference	Part
1	1	COAX1	120 mm RG 178
2	2	COAX3, COAX2	120 mm 25 H
3	2	COAX4, COAX5	240 mm 25 H
4	1	COAX6	120 mm RG 303
5	1	CS1	CSRF0065R1
6	10	C1, C15, C24, C25, C26, C27, C28, C29, C30, C31	470 pF
7	2	C2, C3	220 pF
8	2	C4, C5	56 pF
9	33	R1, R2, R3, R4, PAD5, R6, D6, C6, L12, R13, L13, C14, R15, C17, C19, C33, R34, C34, R35, C35, R36, C36, C37, R38, C38, R40, C53, C58, C61, C69, C70, C75, C76	NC
10	12	C7, C8, C10, C11, C13, C49, C50, C54, C55, C56, C57, C62	4,7 nF
11	1	C9	10 uF 25 V
12	4	C12, C47, C63, C68	100 nF
13	2	C46, C16	680 pF
14	1	C18	68 pF
15	2	C21, C20	100 pF
16	1	C22	47 pF
17	1	C23	150 pF
18	1	C32	680 nF
19	4	C39, C40, C72, C74	27 pF
20	4	C41, C42, C43, C73	4,7 pF
21	4	C44, C52, C59, C71	1 pF
22	1	C45	33 pF
23	1	C48	100 uF 63 V
24	1	C51	5-30 pF
25	1	C60	47 pF
26	4	C64, C65, C66, C67	1 nF
27	1	DCPLR1	10 SP
28	2	D9, D1	6V8
29	6	D2, D3, D7, D8, D10, D11	4004
30	2	D4, D5	HSM 2800
31	8	FIX1, FIX2, FIX3, FIX4, FIX5, FIX6, FIX7, FIX8	FIX35
32	2	J1, J2	JPSALD
33	1	L1	3_sp_d_5
34	2	L2, L3	47 nH
35	1	L4	6_sp_d_7
36	1	L5	VK 200
37	1	L6	4_sp_d_6,5
38	1	L7	5_sp_d_5
39	1	L8	LINK d.11 h.17
40	1	L9	LINK d.12 h.14
41	1	L10	10_sp_d_5
42	1	L11	1 sp SU BALUN
43	2	L14, L16	4_sp_d_8,5
44	1	L15	3_sp_d_7
45	1	L17	4_sp_d_7
46	1	MOS1	BLF 175
47	1	MOS2	SD 2942
48	1	PAD1	Input RF
49	1	PAD2	+18 V
50	1	PAD3	V Bias
51	1	PAD4	+50 V
52	1	PAD6	FWD
53	1	PAD7	RFD
54	1	PAD8	Out RF
55	1	PAD9	RF Test
56	1	Q1	BFG35
57	5	R16, R28, R46	1 K
58	1	R5, R39	0 H
59	3	R7, R8, R43	270 H
60	3	R9, R10, R11	4H7
61	6	R12, R14, R24, R25, R26, R27	47 H
62	2	R49, R17	330 H
63	3	R18, R31, R32	4K7
64	1	R19	10 H
65	2	R20, R21	22 H
66	2	R22, R23	2H2
67	3	R29, R30, R44	10 K
68	1	R33	56 H
69	2	R47, R37	1K5
70	3	R41, R42, R48	100 H
71	1	R45	8K2
72	2	RV1, RV2	1 K
73	2	TL2, TL1	5x8
74	2	TL3, TL4	20x7
75	2	TL5, TL6	10x7
76	1		BALUN
75	2	TOROIDE	TOROIDE



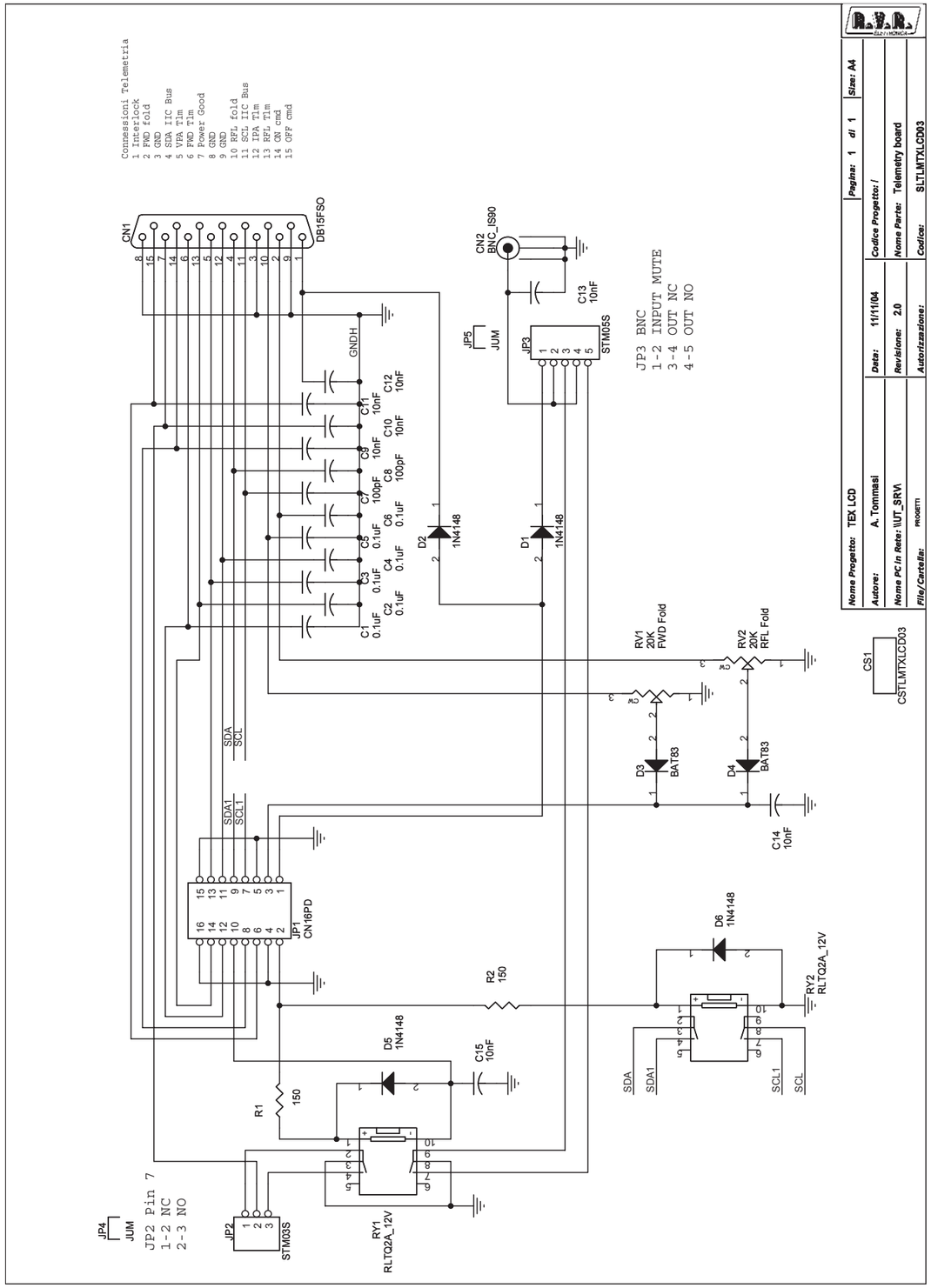
Nome Progetto: TEX1000LCD		**Pagina:** 1 di 1	**Size:** A3
Autore: Ufficio Tecnico	**Data:** 22/12/2005	**Codice Progetto:** 010	
Nome PC in Rete: \\UTSRV\	**Revisione:** 1.4	**Nome Parte:** SCH. PANNELLO TEXLCD/PTRL-ECO	
File/Cartella: SCHEDE\SL007PC2001A\	**Autorizzazione:**	**Codice:** SL007PC2001A	

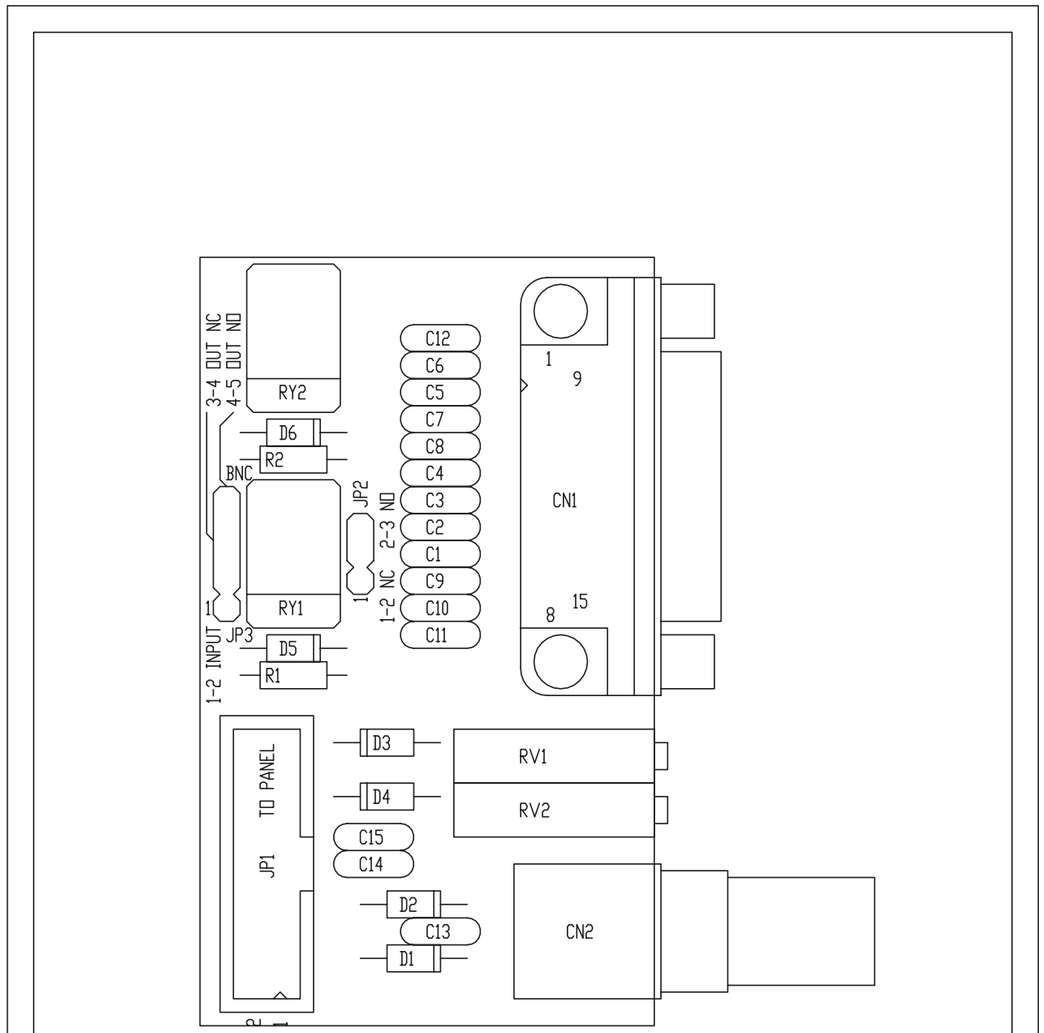


SCH. PANNELLO TEXLCD/PTRL-ECO
SL007PC2001A Revision: 1.4
DATA: 22/12/2005

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





R.V.R. ELETTRONICA	NOME PROGETTO: TEX LCD			NOME PARTE: SCHEDA TELEMETRY BOARD			
	AUTORE: S.POLUZZI		DATA: 11/11/04	REVISIONE: 3.0	SCALA: 2:1	SIZE: A4	PAGINA: 1 DI 1
ARCHIVIAZIONE ELETTRONICA: "CARTELLA PROGETTI" SU "UT_SRV"		CODICE PROGETTO: /		CODICE DISEGNO: CSTLMTXLCD03			
MATERIALE: FR4-74 1.6mm		TRATTAMENTO: Cu 35um		PROFILO: /		STATO: PROGETTUALE	

Telemetry Card

SLTLMTXLCD03

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	Diodo in vetro DO35	
8	2	D3, D4	BAT83	Diodi 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