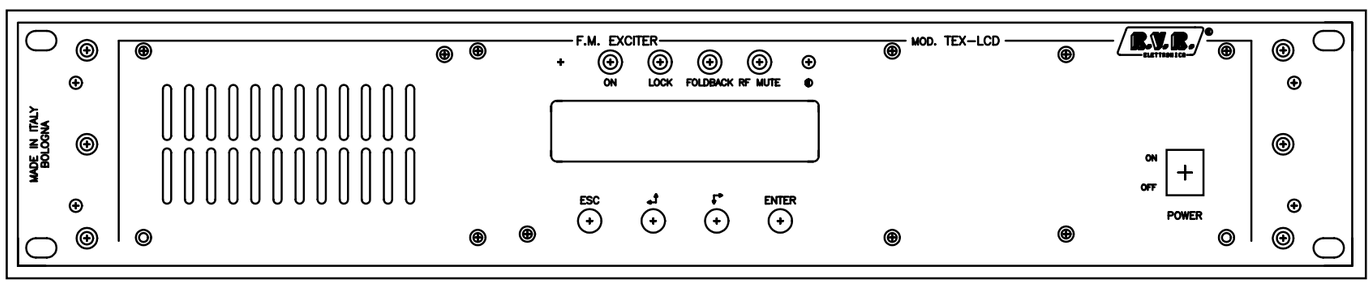
TEX-LCD



User Manual

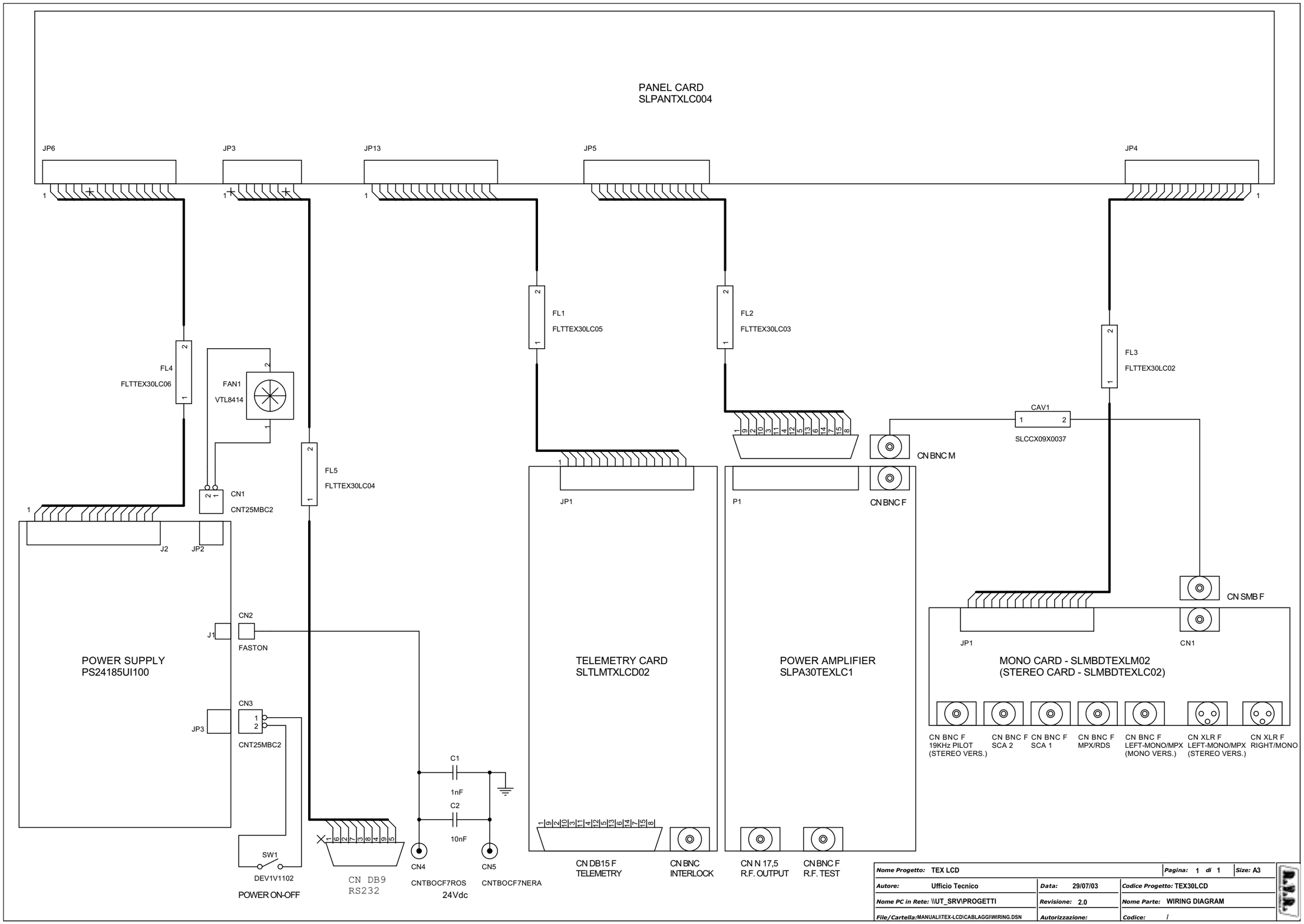
Volume 2: Technical Appendix

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

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

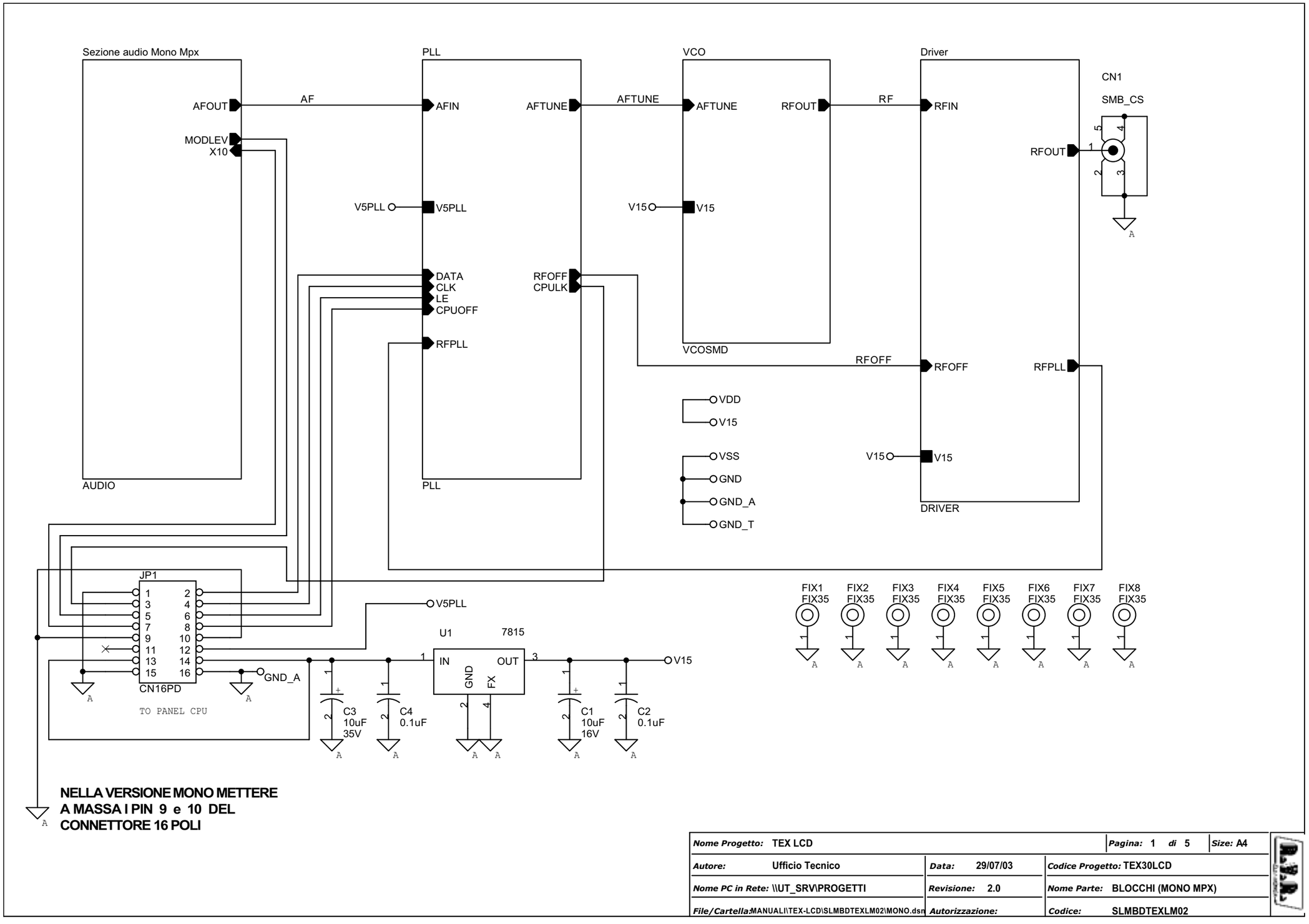
Questa parte del manuale contiene i dettagli tecnici riguardanti la costruzione delle singole schede componenti il TEX-LCD. L'appendice è composta dalle seguenti sezioni:

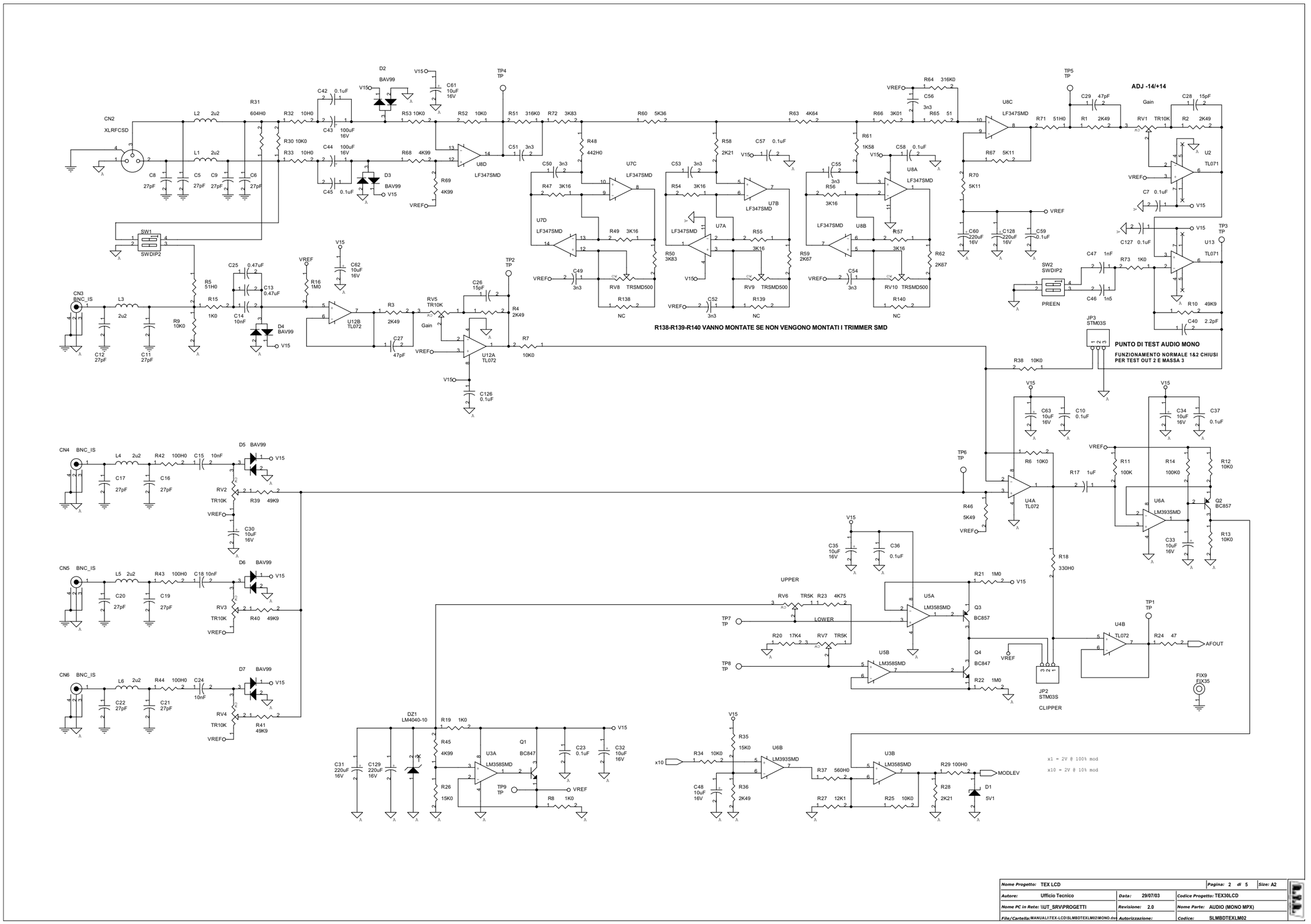
This part of the manual contains the technical details about the different boards of the TEX-LCD. This appendix is composed of the following sections:

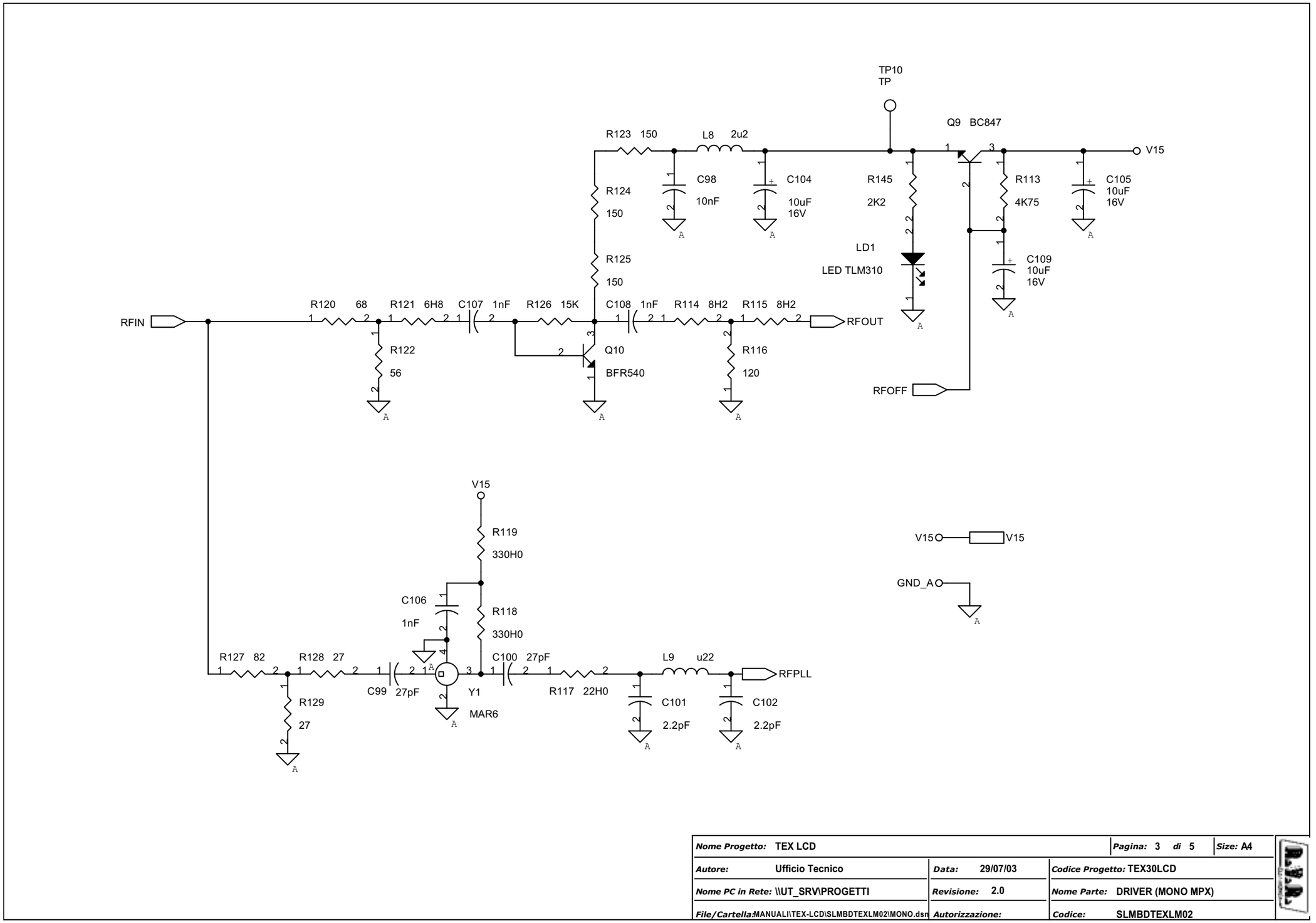

PANEL CARD
SLPANTXLC004
JP6
JP3
JP13
JP5
JP4
FL4
FLTTEX30LC06
FAN1
VTL8414
CN1
CNT25MBC2
J2
JP2
FL5
FLTTEX30LC04
FL1
FLTTEX30LC05
FL2
FLTTEX30LC03
FL3
FLTTEX30LC02
CAV1
SLCCX09X0037
CN BNC M
JP1
P1
CN BNC F
CN SMB F
CN2
J1
FASTON
POWER SUPPLY
PS24185UI100
CN3
JP3
CNT25MBC2
SW1
DEV1V1102
POWER ON-OFF
CN DB9
RS232
C1
1nF
C2
10nF
CN4
CNTBOCF7ROS
CN5
CNTBOCF7NERA
24Vdc
TELEMETRY CARD
SLTLMTXLCD02
CN DB15 F
TELEMETRY
CN BNC
INTERLOCK
POWER AMPLIFIER
SLPA30TEXLC1
CN N 17,5
R.F. OUTPUT
CN BNC F
R.F. TEST
MONO CARD - SLMBDTEXLM02
(STEREO CARD - SLMBDTEXLC02)
CN BNC F
19KHz PILOT
(STEREO VERS.)
CN BNC F
SCA 2
CN BNC F
SCA 1
CN BNC F
MPX/RDS
CN BNC F
LEFT-MONO/MPX
(MONO VERS.)
CN XLR F
LEFT-MONO/MPX
(STEREO VERS.)
CN XLR F
RIGHT/MONO
Nome Progetto: TEX LCD
Pagina: 1 di 1
Size: A3
Autore: Ufficio Tecnico
Data: 29/07/03
Codice Progetto: TEX30LCD
Nome PC in Rete: \\UT_SRV\PROGETTI
Revisione: 2.0
Nome Parte: WIRING DIAGRAM
File/Cartella: MANUALI\TEX-LCD\CABLAGGI\WIRING.DSN
Autorizzazione:
Codice: /

WIRING DIAGRAM - Bill Of Materials

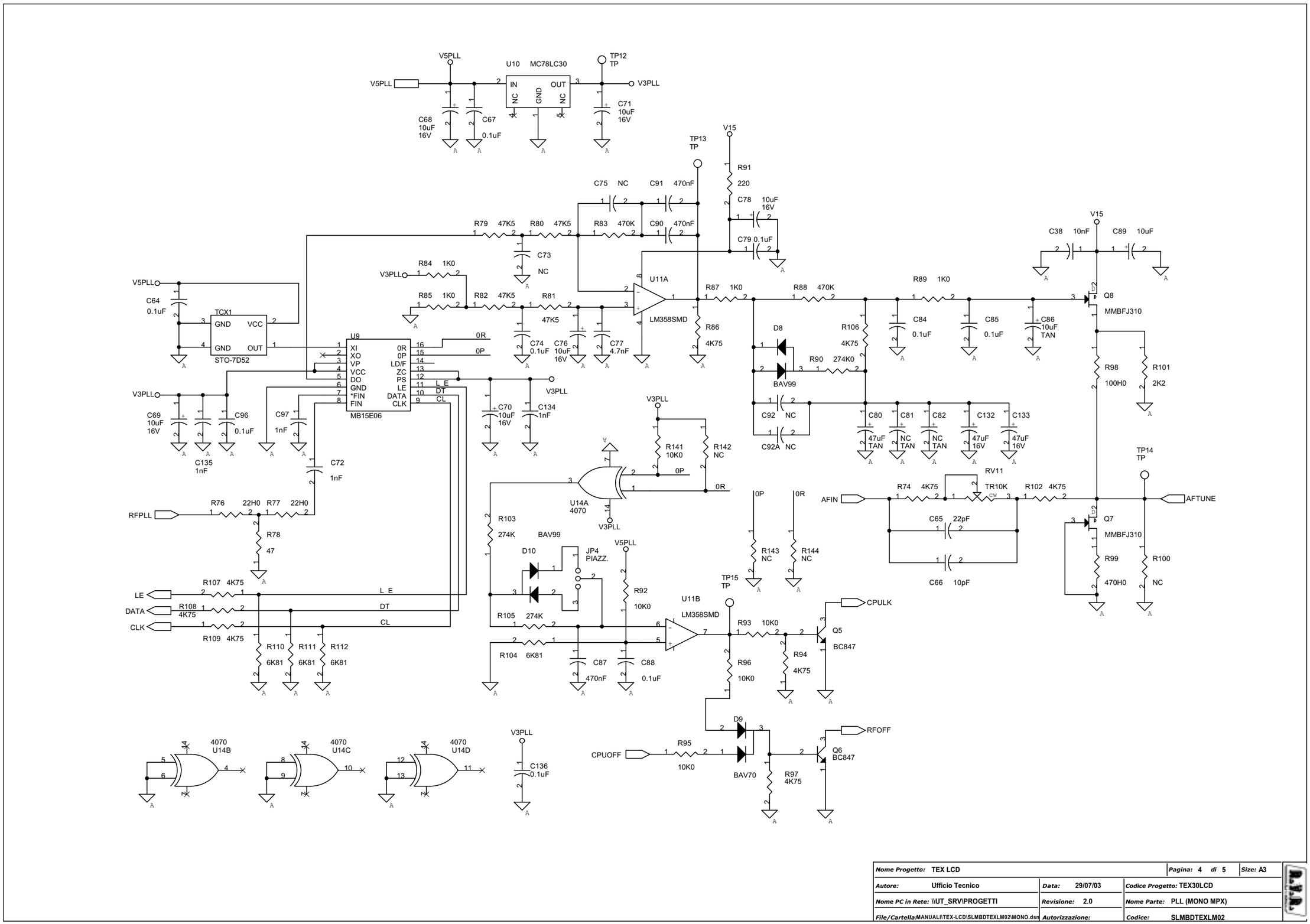
Item	Quantity	Reference	Part
1	1	CAV1	SLCCX09X0037
2	2	CN1,CN3	CNT25MBC2
3	1	CN2	FASTON
4	1	CN4	CNTBOCF7ROS
5	1	CN5	CNTBOCF7NERA
6	1	C1	1nF
7	1	C2	10nF
8	1	FAN1	VTL8414
9	1	FL1	FLTTEX30LC05
10	1	FL2	FLTTEX30LC03
11	1	FL3	FLTTEX30LC02
12	1	FL4	FLTTEX30LC06
13	1	FL5	FLTTEX30LC04
14	1	SW1	DEV1V1102


Sezione audio Mono Mpx
AFOUT
AF
MODLEV
X10
AUDIO
PLL
AFIN
AFTUNE
V5PLL
V5PLL
DATA
CLK
LE
CPUOFF
RFPLL
RFOFF
CPULK
PLL
VCO
AFTUNE
AFTUNE
V15
V15
RFOUT
VCOSMD
Driver
RF
RFIN
RFOFF
RFOFF
V15
V15
DRIVER
RFPLL
CN1
SMB_CS
RFOUT
VDD
V15
VSS
GND
GND_A
GND_T
JP1
CN16PD
TO PANEL CPU
GND_A
V5PLL
U1
7815
IN
OUT
GND
FX
V15
C3
10uF
35V
C4
0.1uF
C1
10uF
16V
C2
0.1uF
FIX1 FIX35
FIX2 FIX35
FIX3 FIX35
FIX4 FIX35
FIX5 FIX35
FIX6 FIX35
FIX7 FIX35
FIX8 FIX35
NELLA VERSIONE MONO METTERE
A MASSA I PIN 9 e 10 DEL
CONNETTORE 16 POLI
Nome Progetto: TEX LCD
Pagina: 1 di 5
Size: A4
Autore: Ufficio Tecnico
Data: 29/07/03
Codice Progetto: TEX30LCD
Nome PC in Rete: \\UT_SRV\PROGETTI
Revisione: 2.0
Nome Parte: BLOCCHI (MONO MPX)
File/Cartella: MANUALI\TEX-LCD\SLMBDTEXLM02\MONO.dsn
Autorizzazione:
Codice: SLMBDTEXLM02

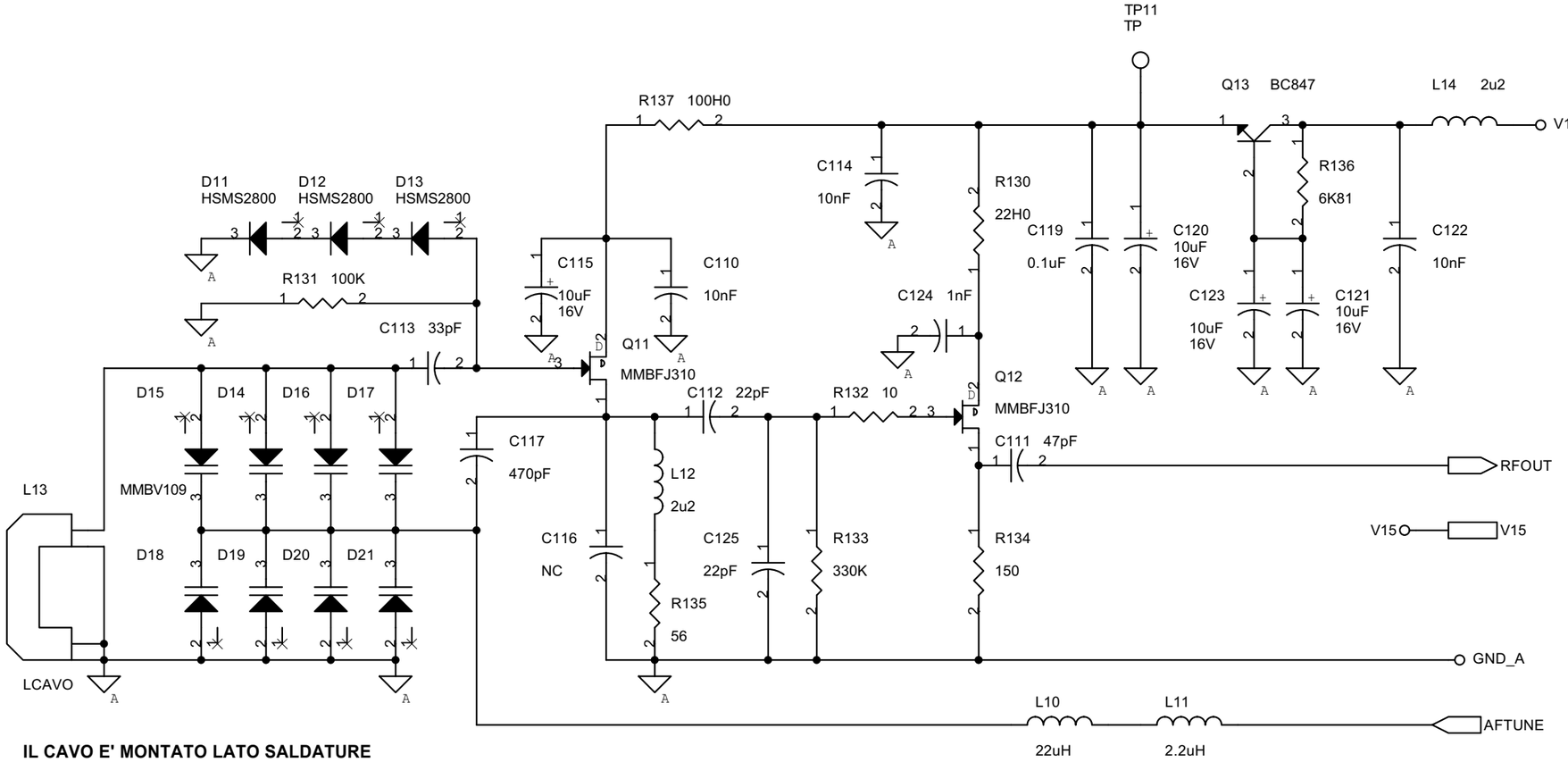

CN2 XLRFCSD
L2 2u2
L1 2u2
R31 604H0
R32 10H0
R33 10H0
R30 10K0
C42 0.1uF
C43 100uF 16V
C44 100uF 16V
C45 0.1uF
D2 BAV99
D3 BAV99
R53 10K0
R52 10K0
R51 316K0
R72 3K83
R60 5K36
R63 4K64
R64 316K0
R66 3K01
R65 51
C56 3n3
C61 10uF 16V
TP4 TP
R68 4K99
R69 4K99
U8D LF347SMD
C51 3n3
R48 442H0
U7C LF347SMD
R58 2K21
C57 0.1uF
U7B LF347SMD
R61 1K58
C58 0.1uF
U8A LF347SMD
U8C LF347SMD
R71 51H0
R67 5K11
R70 5K11
TP5 TP
ADJ -14/+14
C29 47pF
C28 15pF
R1 2K49
R2 2K49
RV1 TR10K
Gain
U2 TL071
C7 0.1uF
C60 220uF 16V
C128 220uF 16V
C59 0.1uF
VREF
V15
C8 27pF
C5 27pF
C9 27pF
C6 27pF
SW1 SWDIP2
R5 51H0
R15 1K0
R9 10K0
C25 0.47uF
C13 0.47uF
C14 10nF
D4 BAV99
CN3 BNC_IS
L3 2u2
C12 27pF
C11 27pF
R16 1M0
C62 10uF 16V
U12B TL072
R3 2K49
C27 47pF
RV5 TR10K
Gain
C26 15pF
R4 2K49
R7 10K0
U12A TL072
C126 0.1uF
TP2 TP
R49 3K16
RV8 TRSMD500
R138 NC
C49 3n3
R47 3K16
R50 3K83
R54 3K16
RV9 TRSMD500
R139 NC
C52 3n3
C53 3n3
R59 2K67
R55 3K16
U7A LF347SMD
U7D LF347SMD
R62 2K67
RV10 TRSMD500
R140 NC
C54 3n3
C55 3n3
R56 3K16
R57 3K16
U8B LF347SMD
R138-R139-R140 VANNO MONTATE SE NON VENGONO MONTATI I TRIMMER SMD
SW2 SWDIP2
PREEN
C47 1nF
R73 1K0
C46 1n5
C127 0.1uF
U13 TL071
TP3 TP
R10 49K9
C40 2.2pF
JP3 STM03S
PUNTO DI TEST AUDIO MONO
FUNZIONAMENTO NORMALE 1&2 CHIUSI
PER TEST OUT 2 E MASSA 3
R38 10K0
C63 10uF 16V
C10 0.1uF
C34 10uF 16V
C37 0.1uF
TP6 TP
R6 10K0
U4A TL072
R17 1uF
R11 100K
R14 100K0
R12 10K0
U6A LM393SMD
Q2 BC857
C33 10uF 16V
R13 10K0
R46 5K49
C35 10uF 16V
C36 0.1uF
R18 330H0
CN4 BNC_IS
L4 2u2
C17 27pF
C16 27pF
R42 100H0
C15 10nF
D5 BAV99
RV2 TR10K
R39 49K9
C30 10uF 16V
CN5 BNC_IS
L5 2u2
C20 27pF
C19 27pF
R43 100H0
C18 10nF
D6 BAV99
RV3 TR10K
R40 49K9
CN6 BNC_IS
L6 2u2
C22 27pF
C21 27pF
R44 100H0
C24 10nF
D7 BAV99
RV4 TR10K
R41 49K9
UPPER
LOWER
RV6 TR5K
R23 4K75
R20 17K4
RV7 TR5K
TP7 TP
TP8 TP
U5A LM358SMD
U5B LM358SMD
Q3 BC857
Q4 BC847
R21 1M0
R22 1M0
TP1 TP
U4B TL072
R24 47
AFOUT
JP2 STM03S
CLIPPER
FIX9 FIX35
DZ1 LM4040-10
R19 1K0
R45 4K99
R26 15K0
U3A LM358SMD
Q1 BC847
C23 0.1uF
C32 10uF 16V
C31 220uF 16V
C129 220uF 16V
TP9 TP
R8 1K0
R35 15K0
R34 10K0
R36 2K49
C48 10uF 16V
U6B LM393SMD
R37 560H0
R27 12K1
U3B LM358SMD
R25 10K0
R29 100H0
R28 2K21
D1 5V1
MODLEV
x10
x1 = 2V @ 100% mod
x10 = 2V @ 10% mod
Nome Progetto: TEX LCD
Pagina: 2 di 5
Size: A2
Autore: Ufficio Tecnico
Data: 29/07/03
Codice Progetto: TEX30LCD
Nome PC in Rete: \\UT_SRV\PROGETTI
Revisione: 2.0
Nome Parte: AUDIO (MONO MPX)
File/Cartella: MANUALI\TEX-LCD\SLMBDTEXLM02\MONO.dsn
Autorizzazione:
Codice: SLMBDTEXLM02



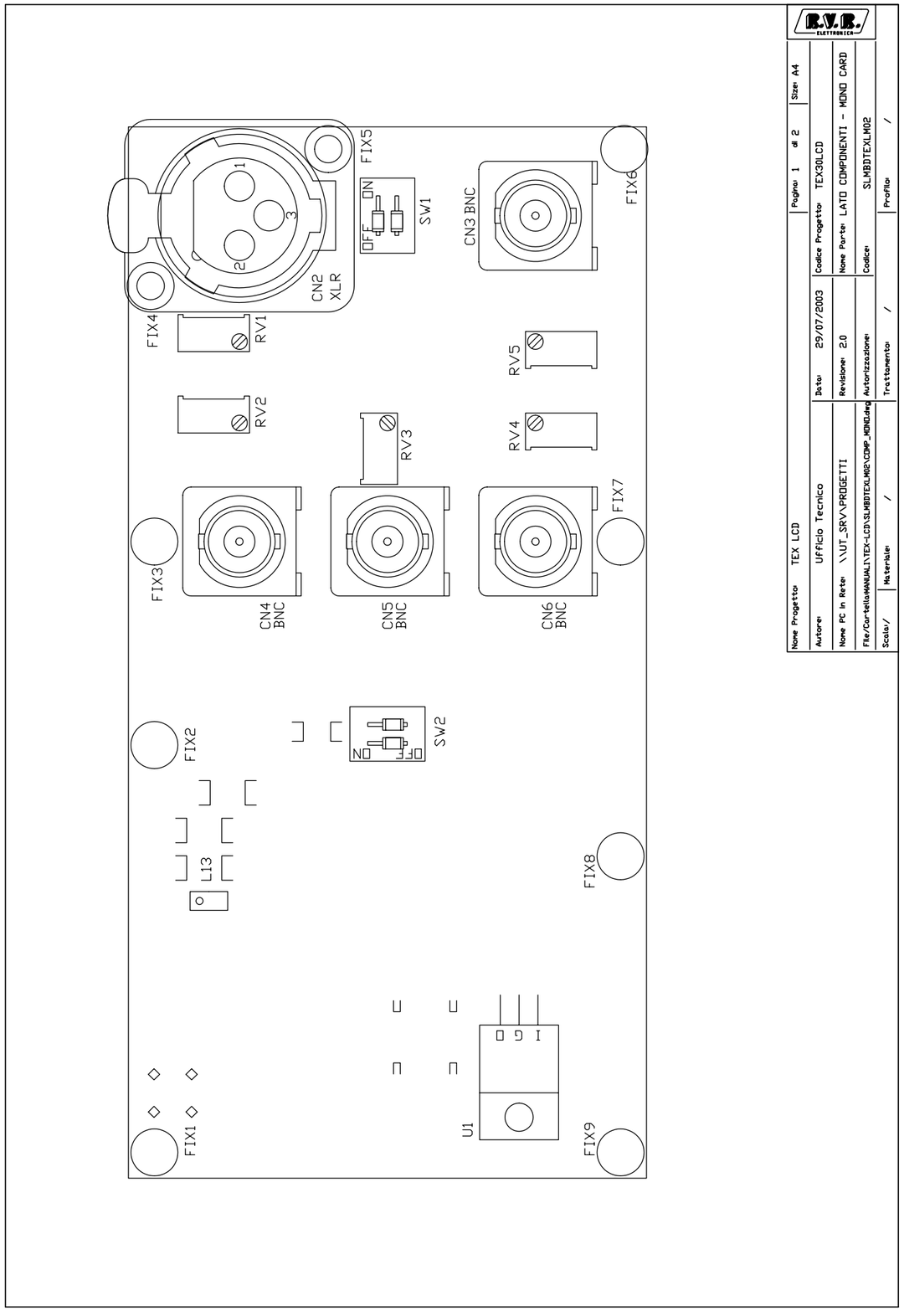
Nome Progetto: TEX LCD			**Pagina:** 3 di 5 — **Size:** A4
Autore: Ufficio Tecnico	**Data:** 29/07/03	**Codice Progetto:** TEX30LCD	
Nome PC in Rete: \\UT_SRV\PROGETTI	**Revisione:** 2.0	**Nome Parte:** DRIVER (MONO MPX)	
File/Cartella: MANUALI\TEX-LCD\SLMBDTEXLM02\MONO.dsn	**Autorizzazione:**	**Codice:** SLMBDTEXLM02	



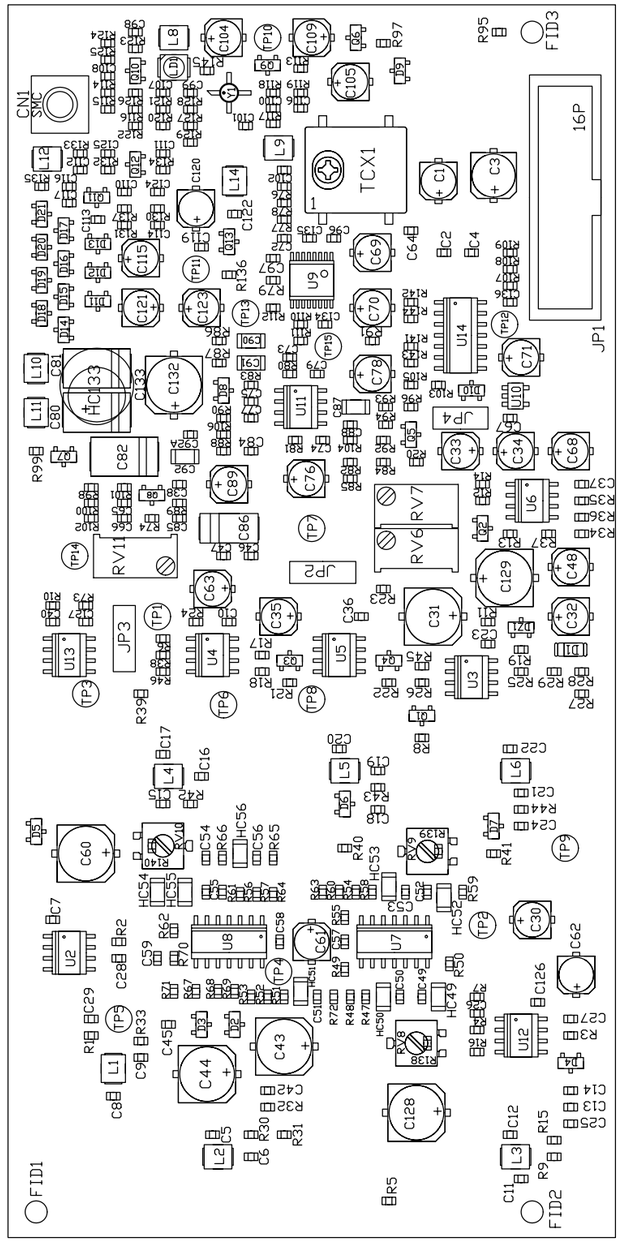
Nome Progetto: TEX LCD		**Pagina:** 4 di 5	**Size:** A3
Autore: Ufficio Tecnico	**Data:** 29/07/03	**Codice Progetto:** TEX30LCD	
Nome PC in Rete: \\UT_SRV\PROGETTI	**Revisione:** 2.0	**Nome Parte:** PLL (MONO MPX)	
File/Cartella: MANUALI\TEX-LCD\SLMBDTEXLM02\MONO.dsn	**Autorizzazione:**	**Codice:** SLMBDTEXLM02	



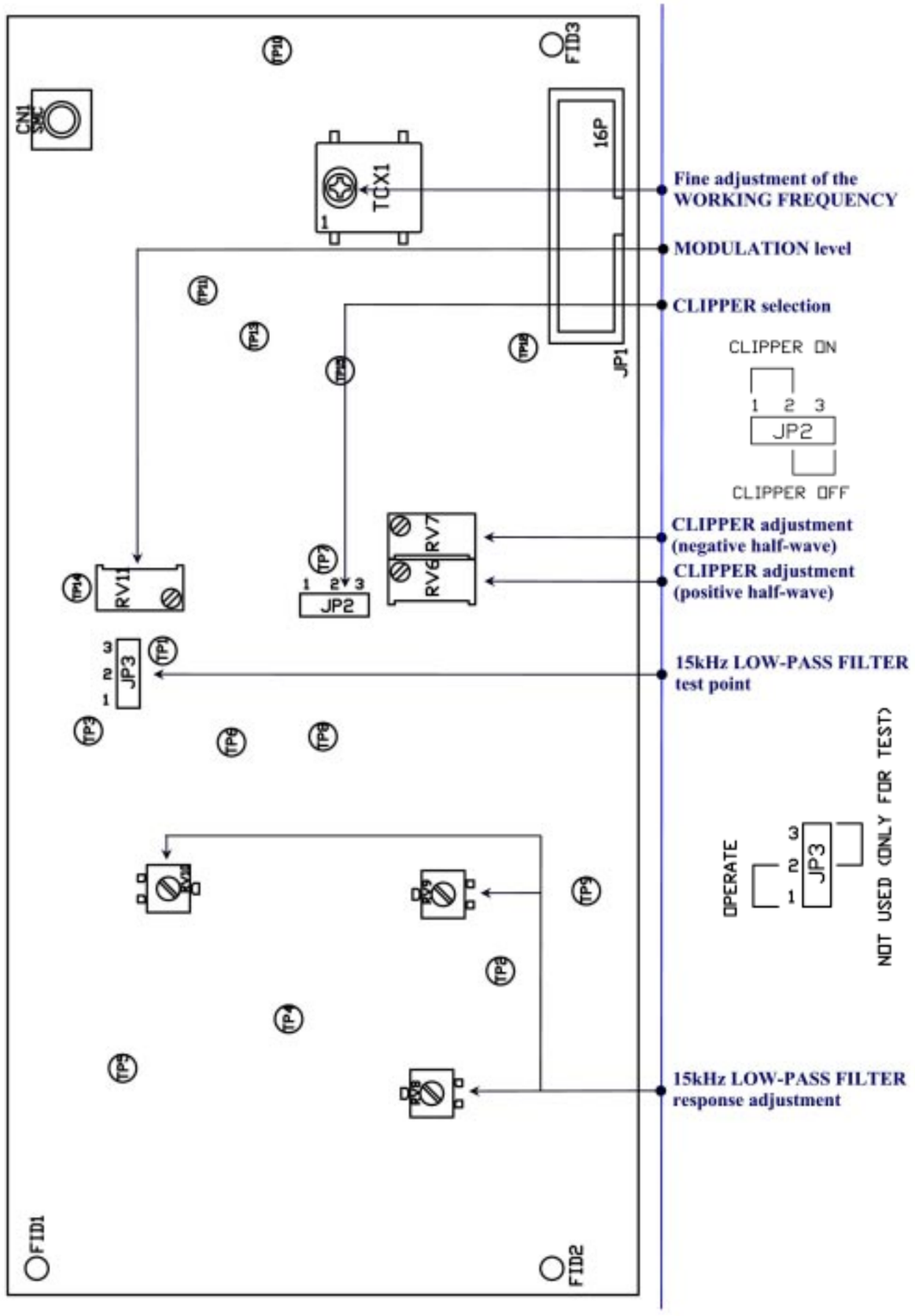
Nome Progetto: TEX LCD			Pagina: 5 di 5 / Size: A4
Autore: Ufficio Tecnico	Data: 29/07/03	Codice Progetto: TEX30LCD	
Nome PC in Rete: \\UT_SRV\PROGETTI	Revisione: 2.0	Nome Parte: VCO (MONO MPX)	
File/Cartella: MANUALI\TEX-LCD\SLMBDTEXLM02\MONO.dsn	Autorizzazione:	Codice: SLMBDTEXLM02	



Nome Progetto:	TEX LCD	Pagina: 1 di 2	Size: A4
Autore:	Ufficio Tecnico	Data: 29/07/2003	Codice Progetto: TEX30LCD
Nome PC in Rete:	\\UT_SRV\PROGETTI	Revisione: 2.0	Nome Parte: LATO COMPONENTI - MONO CARD
File/Cartella:	MANUALI\TEX-LCD\SLMBDTEXLM02\COMP_MONO.dwg	Autorizzazione:	Codice: SLMBDTEXLM02
Scala: /	Materiale: /	Trattamento: /	Profilo: /



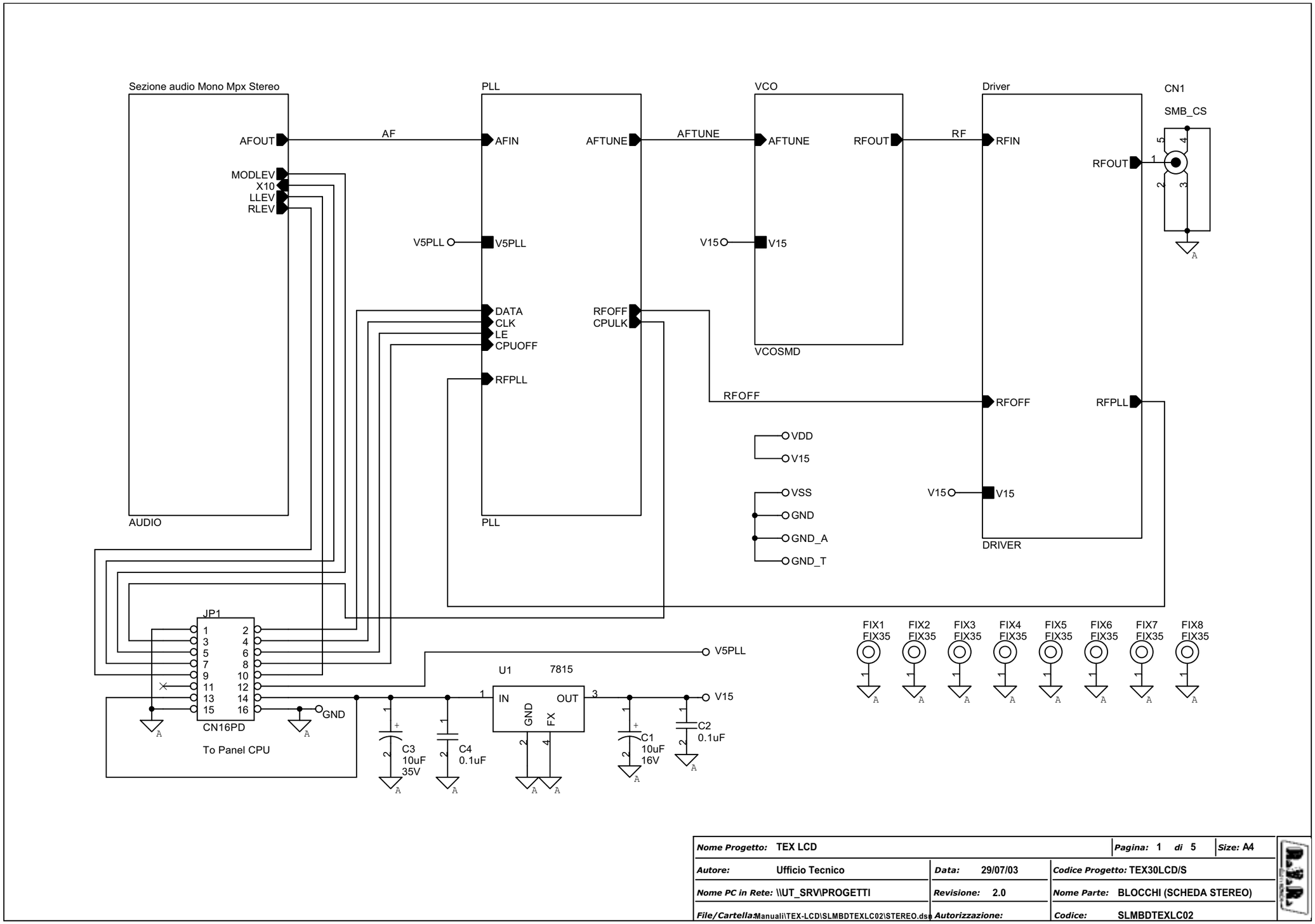
Nome Progetto:	TEX LCD	Pagina: 2 di 2	Size: A4
Autore:	Ufficio Tecnico	Data: 29/07/2003	Codice Progetto: TEX30LCD
Nome PC in Rete:	\\UT_SRV\PROGETTI	Revisione: 2.0	Nome Parte: LATO COMPONENTI - MONO CARD
File/Cartella:	MANUALI\TEX-LCD\SLMBDTEXLM02\SMD_MONO.DVG	Autorizzazione:	Codice: SLMBDTEXLM02
Scala: /	Materiale: /	Trattamento: /	Profilo: /

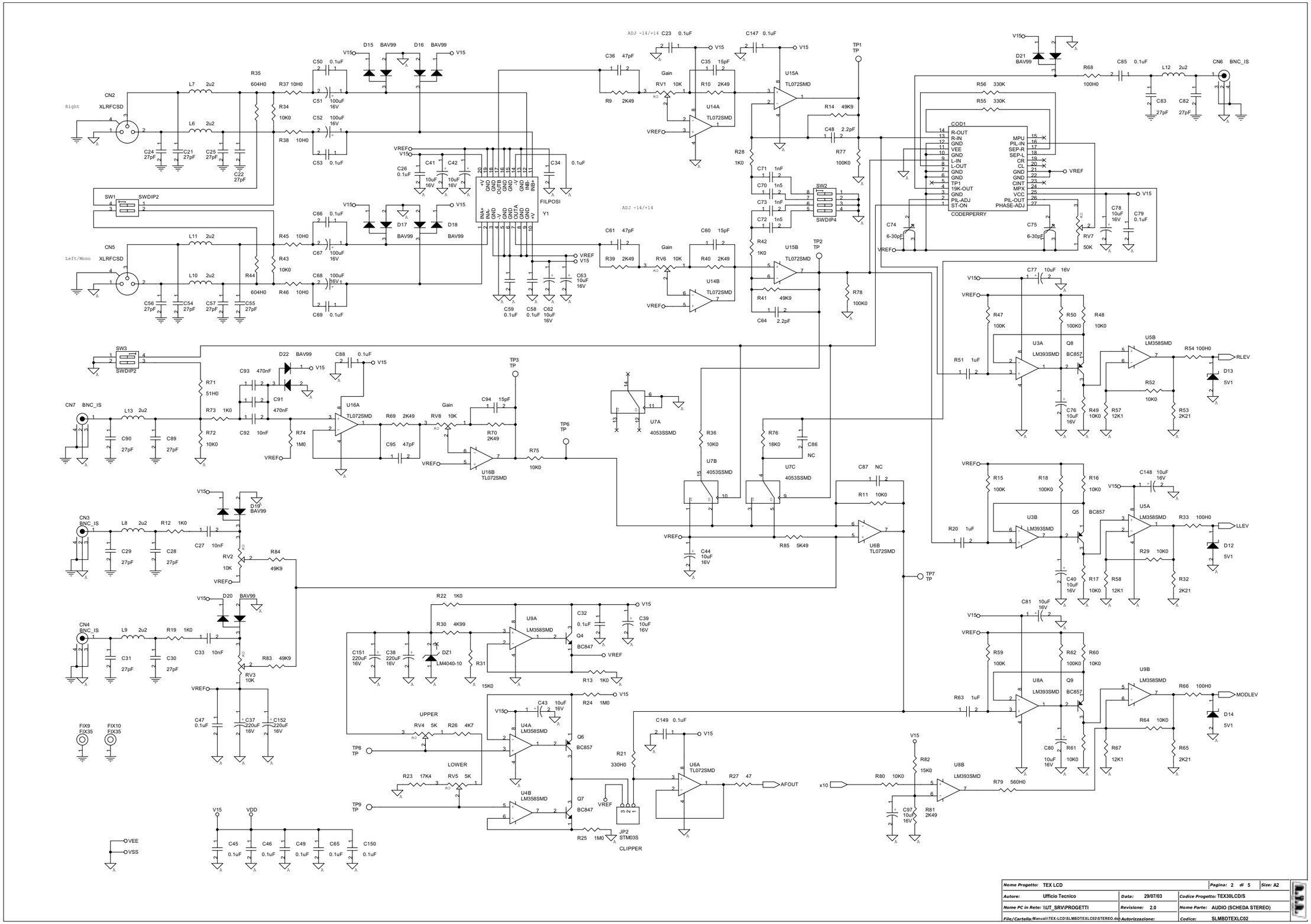


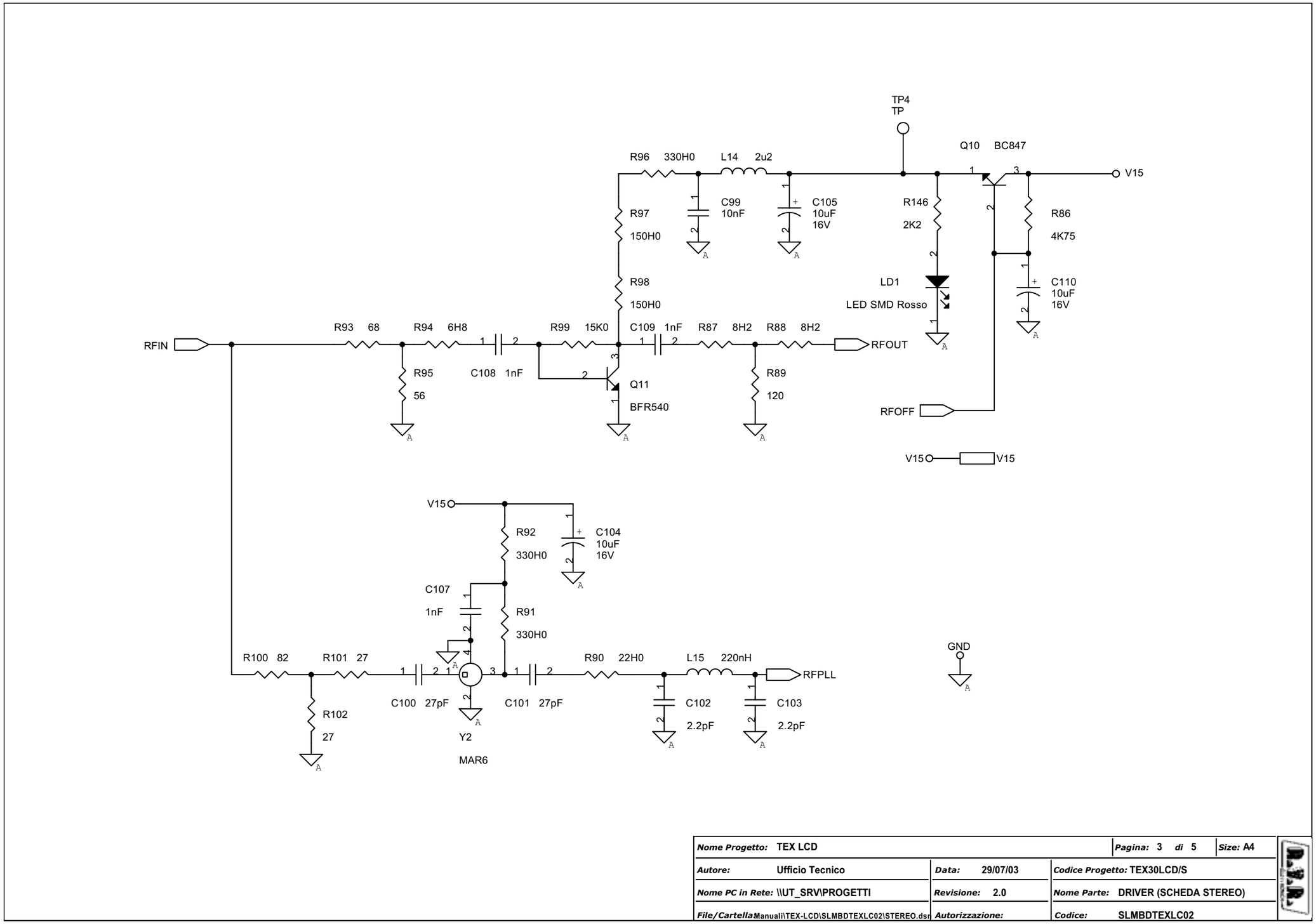
Mono Audio Card - Bill Of Materials

Item	Q.ty	Reference	Part
1	1	CN1	SMB_CS
2	1	CN2	XLRFCSD
3	4	CN3,CN4,CN5,CN6	BNC_IS
4	26	C1,C3,C30,C32,C33,C34, C35,C48,C61,C62,C63,C68, C69,C70,C71,C76,C78,C86, C89,C104,C105,C109,C115, C120,C121,C123	10uF
5	24	C2,C4,C7,C10,C23,C36,C37, C42,C45,C57,C58,C59,C64, C67,C74,C79,C84,C85,C88, C96,C119,C126,C127,C136	0.1uF
6	14	C5,C6,C8,C9,C11,C12,C16, C17,C19,C20,C21,C22,C99, C100	27pF
7	2	C13,C25	0.47uF
8	9	C14,C15,C18,C24,C38,C98, C110,C114,C122	10nF
9	2	C28,C26	15pF
10	3	C27,C29,C111	47pF
11	4	C31,C60,C128,C129	220uF
12	3	C40,C101,C102	2.2pF
13	2	C43,C44	100uF
14	1	C46	1n5
15	9	C47,C72,C97,C106,C107, C108,C124,C134,C135	1nF
16	8	C49,C50,C51,C52,C53,C54, C55,C56	3n3
17	3	C65,C112,C125	22pF
18	1	C66	10pF
19	14	C73,C75,C81,C82,C92A,C92, R100,C116,R138,R139,R140, R142,R143,R144	NC
20	1	C77	4.7nF
21	3	C80,C132,C133	47uF
22	3	C87,C90,C91	470nF
23	1	C113	33pF
24	1	C117	470pF
25	1	DZ1	LM4040-10
26	1	D1	5V1
27	8	D2,D3,D4,D5,D6,D7,D8,D10	BAV99
28	1	D9	BAV70
29	3	D11,D12,D13	HSMS2800
30	8	D14,D15,D16,D17,D18,D19, D20,D21	MMBV109
31	9	FIX1,FIX2,FIX3,FIX4,FIX5, FIX6,FIX7,FIX8,FIX9	FIX35
32	1	JP1	CN16PD
33	2	JP3,JP2	STM03S
34	1	JP4	PIAZZ.
35	1	LD1	LED TLM310
36	9	L1,L2,L3,L4,L5,L6,L8,L12, L14	2u2
37	1	L9	u22

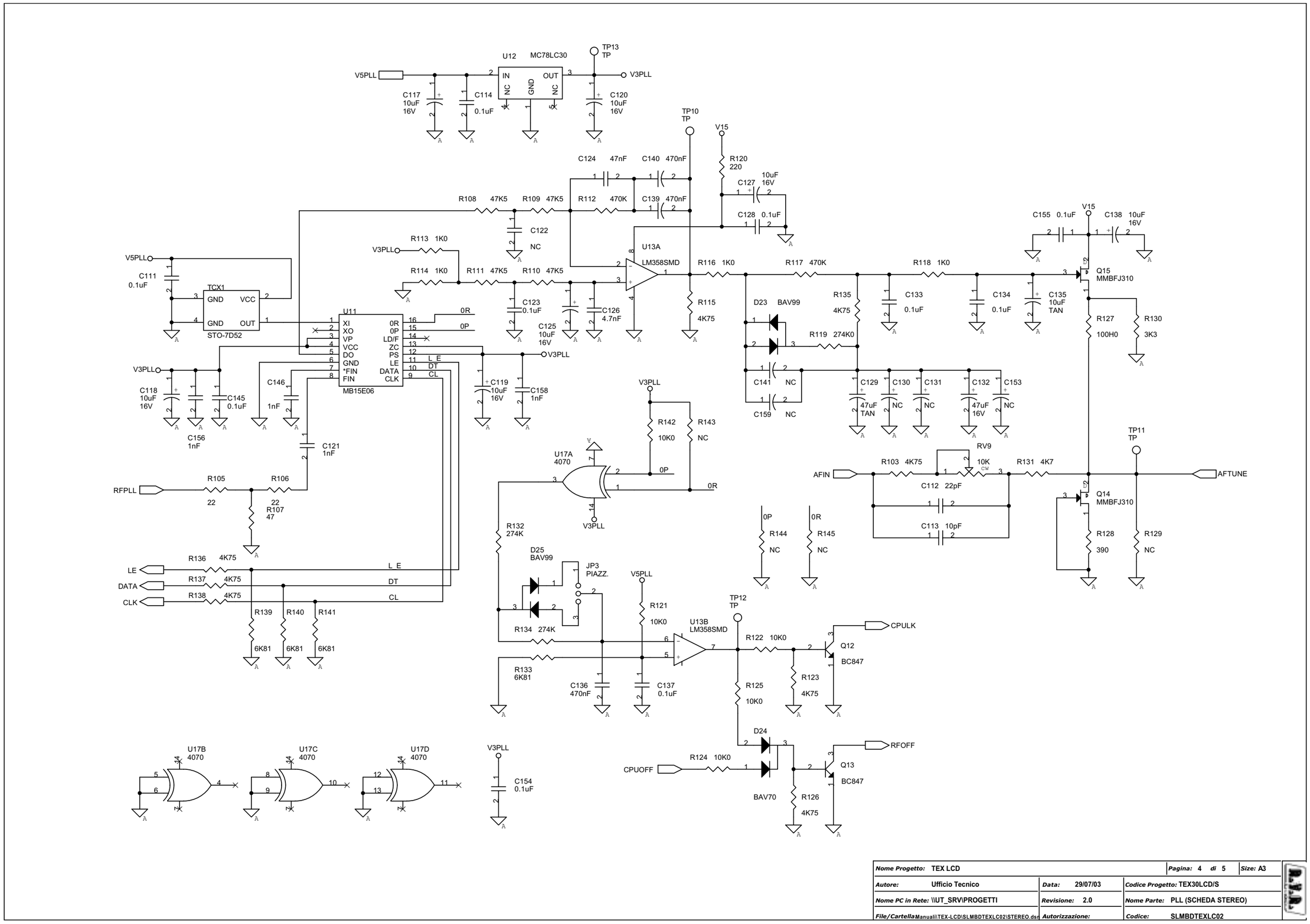
38	1	L10	22uH
39	1	L11	2.2uH
40	1	L13	LCAVO
41	6	Q1,Q4,Q5,Q6,Q9,Q13	BC847
42	2	Q3,Q2	BC857
43	4	Q7,Q8,Q11,Q12	MMBFJ310
44	1	Q10	BFR540
45	6	RV1,RV2,RV3,RV4,RV5,RV11	TR10K
46	2	RV6,RV7	TR5K
47	3	RV8,RV9,RV10	TRSMD500
48	5	R1,R2,R3,R4,R36	2K49
49	2	R5,R71	51H0
50	16	R6,R7,R9,R12,R13,R25,R30, R34,R38,R52,R53,R92,R93, R95,R96,R141	10K0
51	8	R8,R15,R19,R73,R84,R85, R87,R89	1K0
52	4	R10,R39,R40,R41	49K9
53	2	R11,R131	100K
54	1	R14	100K0
55	1	R17	1uF
56	3	R18,R118,R119	330H0
57	1	R20	17K4
58	3	R16,R22,R21	1M0
59	11	R23,R74,R86,R94,R97,R102, R106,R107,R108,R109,R113	4K75
60	2	R24,R78	47
61	2	R26,R35	15K0
62	1	R27	12K1
63	2	R28,R58	2K21
64	6	R29,R42,R43,R44,R98,R137	100H0
65	1	R31	604H0
66	2	R32,R33	10H0
67	1	R37	560H0
68	3	R45,R68,R69	4K99
69	1	R46	5K49
70	6	R47,R49,R54,R55,R56,R57	3K16
71	1	R48	442H0
72	2	R50,R72	3K83
73	2	R51,R64	316K0
74	2	R59,R62	2K67
75	1	R60	5K36
76	1	R61	1K58
77	1	R63	4K64
78	1	R65	51
79	1	R66	3K01
80	2	R67,R70	5K11
81	4	R76,R77,R117,R130	22H0
82	4	R79,R80,R81,R82	47K5
83	2	R83,R88	470K
84	1	R90	274K0
85	1	R91	220
86	1	R99	470H0
87	2	R145,R101	2K2
88	2	R103,R105	274K
89	5	R104,R110,R111,R112,R136	6K81
90	2	R114,R115	8H2
91	1	R116	120
92	1	R120	68
93	1	R121	6H8
94	2	R122,R135	56
95	4	R123,R124,R125,R134	150
96	1	R126	15K
97	1	R127	82
98	2	R129,R128	27
99	1	R132	10
100	1	R133	330K
101	2	SW1,SW2	SWDIP2
102	1	TCX1	STO-7D52
103	15	TP1,TP2,TP3,TP4,TP5,TP6, TP7,TP8,TP9,TP10,TP11, TP12,TP13,TP14,TP15	TP
104	1	U1	7815
105	2	U2,U13	TL071
106	3	U3,U5,U11	LM358SMD
107	2	U12,U4	TL072
108	1	U6	LM393SMD
109	2	U8,U7	LF347SMD
110	1	U9	MB15E06
111	1	U10	MC78LC30
112	1	U14	4070
113	1	Y1	MAR6


Sezione audio Mono Mpx Stereo
AUDIO
AFOUT
AF
MODLEV
X10
LLEV
RLEV
JP1
CN16PD
To Panel CPU
GND
PLL
AFIN
V5PLL
V5PLL
DATA
CLK
LE
CPUOFF
RFPLL
VCO
AFTUNE
AFTUNE
AFTUNE
RFOUT
V15
V15
VCOSMD
RFOFF
CPULK
RFOFF
VDD
V15
VSS
GND
GND_A
GND_T
Driver
RF
RFIN
RFOFF
V15
V15
DRIVER
CN1
SMB_CS
RFOUT
RFPLL
FIX1 FIX35
FIX2 FIX35
FIX3 FIX35
FIX4 FIX35
FIX5 FIX35
FIX6 FIX35
FIX7 FIX35
FIX8 FIX35
V5PLL
U1
7815
IN
OUT
GND
FX
V15
C3
10uF
35V
C4
0.1uF
C1
10uF
16V
C2
0.1uF
Nome Progetto: TEX LCD
Pagina: 1 di 5
Size: A4
Autore: Ufficio Tecnico
Data: 29/07/03
Codice Progetto: TEX30LCD/S
Nome PC in Rete: \\UT_SRV\PROGETTI
Revisione: 2.0
Nome Parte: BLOCCHI (SCHEDA STEREO)
File/Cartella: Manuali\TEX-LCD\SLMBDTEXLC02\STEREO.dsn
Autorizzazione:
Codice: SLMBDTEXLC02

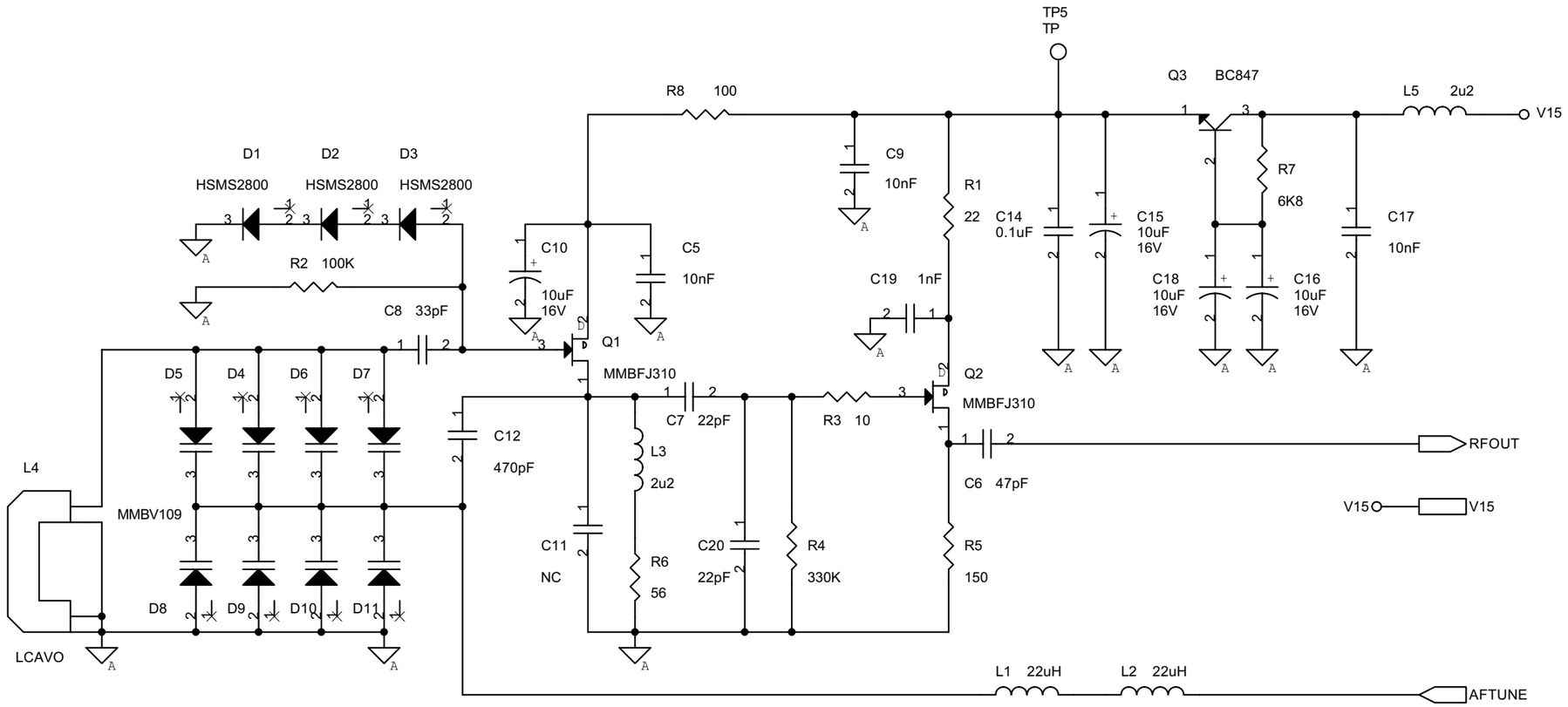

CN2 XLRFCSD Right
CN5 XLRFCSD Left/Mono
CN3 BNC_IS
CN4 BNC_IS
CN6 BNC_IS
CN7 BNC_IS
SW1 SWDIP2
SW2 SWDIP4
SW3 SWDIP2
FIX9 FIX35
FIX10 FIX35
Y1 FILPOSI
COD1 CODERPERRY
R-OUT
R-IN
L-IN
L-OUT
19K-OUT
PIL_ADJ
ST-ON
MPU
PIL-IN
SEP-R
SEP-L
CR
CL
MPX
VCC
PIL_OUT
PHASE-ADJ
U14A TL072SMD
U14B TL072SMD
U15A TL072SMD
U15B TL072SMD
U16A TL072SMD
U16B TL072SMD
U6B TL072SMD
U7A 4053SSMD
U7B 4053SSMD
U7C 4053SSMD
U3A LM393SMD
U3B LM393SMD
U4A LM358SMD
U4B LM358SMD
U5A LM358SMD
U5B LM358SMD
U8A LM393SMD
U8B LM393SMD
U9A LM358SMD
U9B LM358SMD
Q4 BC847
Q5 BC857
Q6 BC857
Q7 BC847
Q8 BC857
Q9 BC857
DZ1 LM4040-10
JP2 STM03S
CLIPPER
UPPER
LOWER
ADJ -14/+14
ADJ -14/+14
D15 BAV99
D16 BAV99
D17 BAV99
D18 BAV99
D19 BAV99
D20 BAV99
D21 BAV99
D22 BAV99
D12 5V1
D13 5V1
D14 5V1
VREF
VEE
VSS
VDD
AFOUT
RLEV
LLEV
MODLEV
Nome Progetto: TEX LCD
Pagina: 2 di 5
Size: A2
Autore: Ufficio Tecnico
Data: 29/07/03
Codice Progetto: TEX30LCD/S
Nome PC in Rete: \\UT_SRV\PROGETTI
Revisione: 2.0
Nome Parte: AUDIO (SCHEDA STEREO)
File/Cartella: Manuali\TEX-LCD\SLMBDTEXLC02\STEREO.dsn
Autorizzazione:
Codice: SLMBDTEXLC02



Nome Progetto:	TEX LCD			**Pagina:** 3 di 5	**Size:** A4
Autore:	Ufficio Tecnico	**Data:**	29/07/03	**Codice Progetto:**	TEX30LCD/S
Nome PC in Rete:	\\UT_SRV\PROGETTI	**Revisione:**	2.0	**Nome Parte:**	DRIVER (SCHEDA STEREO)
File/Cartella	Manuali\TEX-LCD\SLMBDTEXLC02\STEREO.dsn	**Autorizzazione:**		**Codice:**	SLMBDTEXLC02

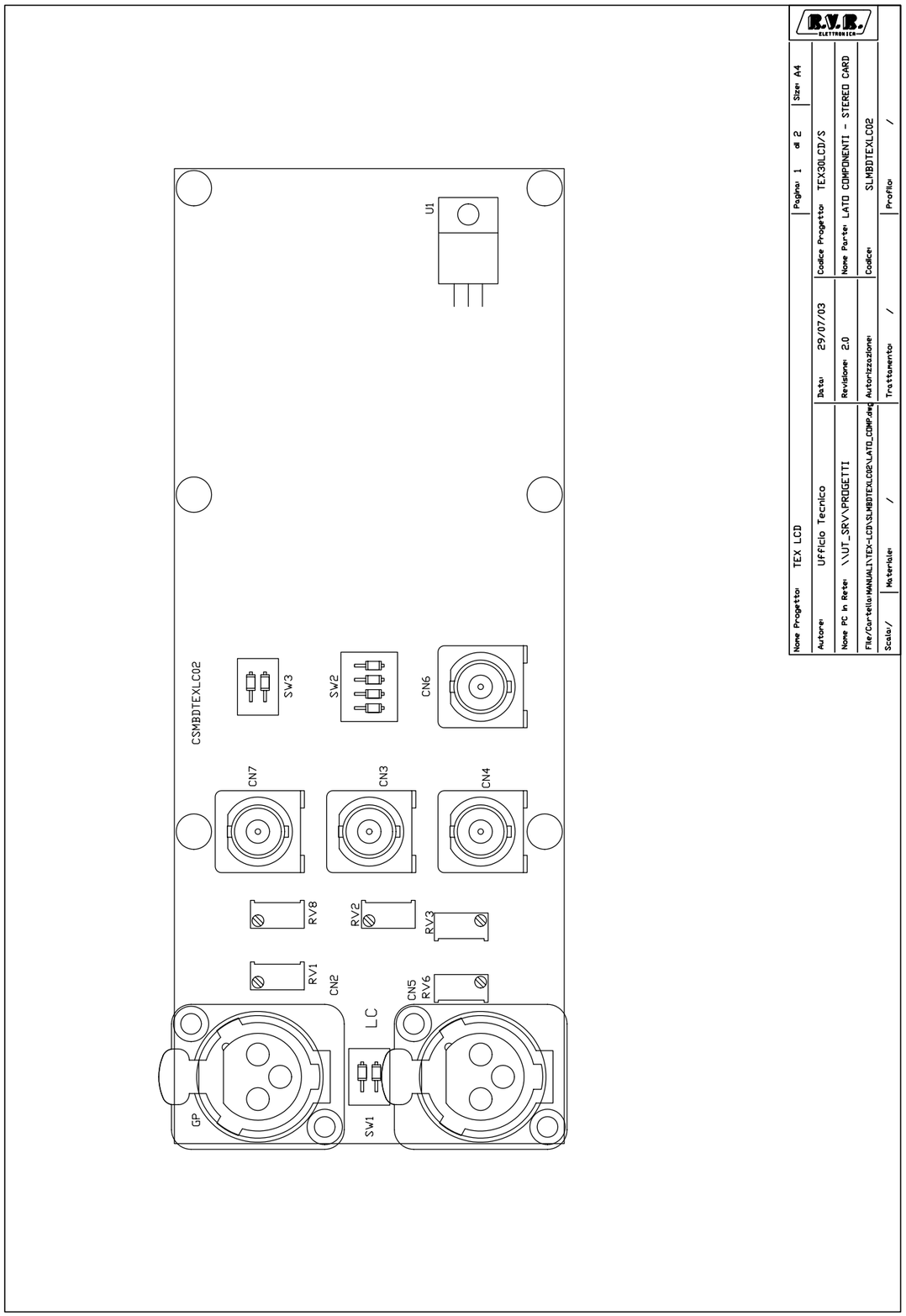


Nome Progetto: TEX LCD		**Pagina:** 4 di 5	**Size:** A3
Autore: Ufficio Tecnico	**Data:** 29/07/03	**Codice Progetto:** TEX30LCD/S	
Nome PC in Rete: \\UT_SRV\PROGETTI	**Revisione:** 2.0	**Nome Parte:** PLL (SCHEDA STEREO)	
File/Cartella Manuali\TEX-LCD\SLMBDTEXLC02\STEREO.dsn	**Autorizzazione:**	**Codice:** SLMBDTEXLC02	

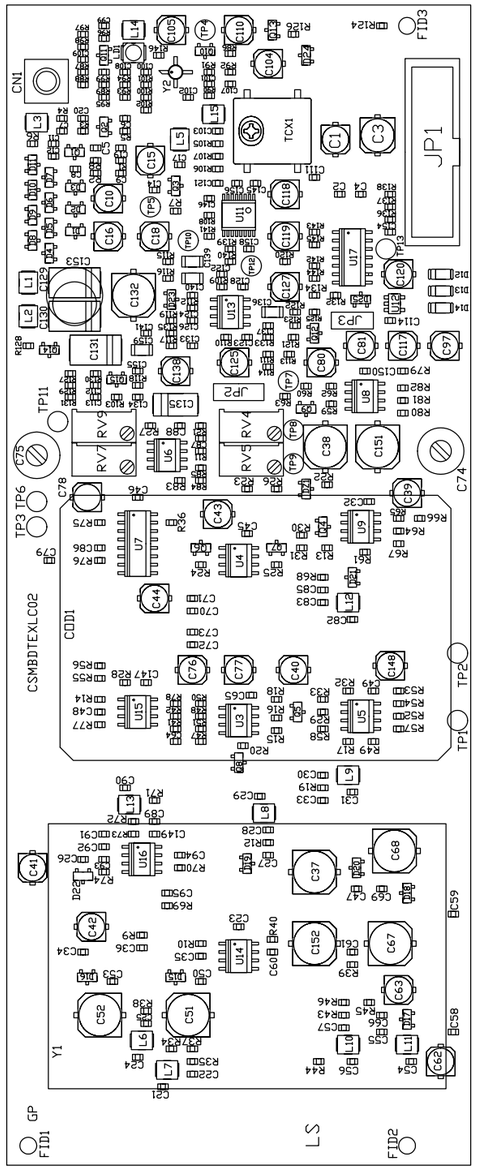


Il cavo e' montato lato saldature

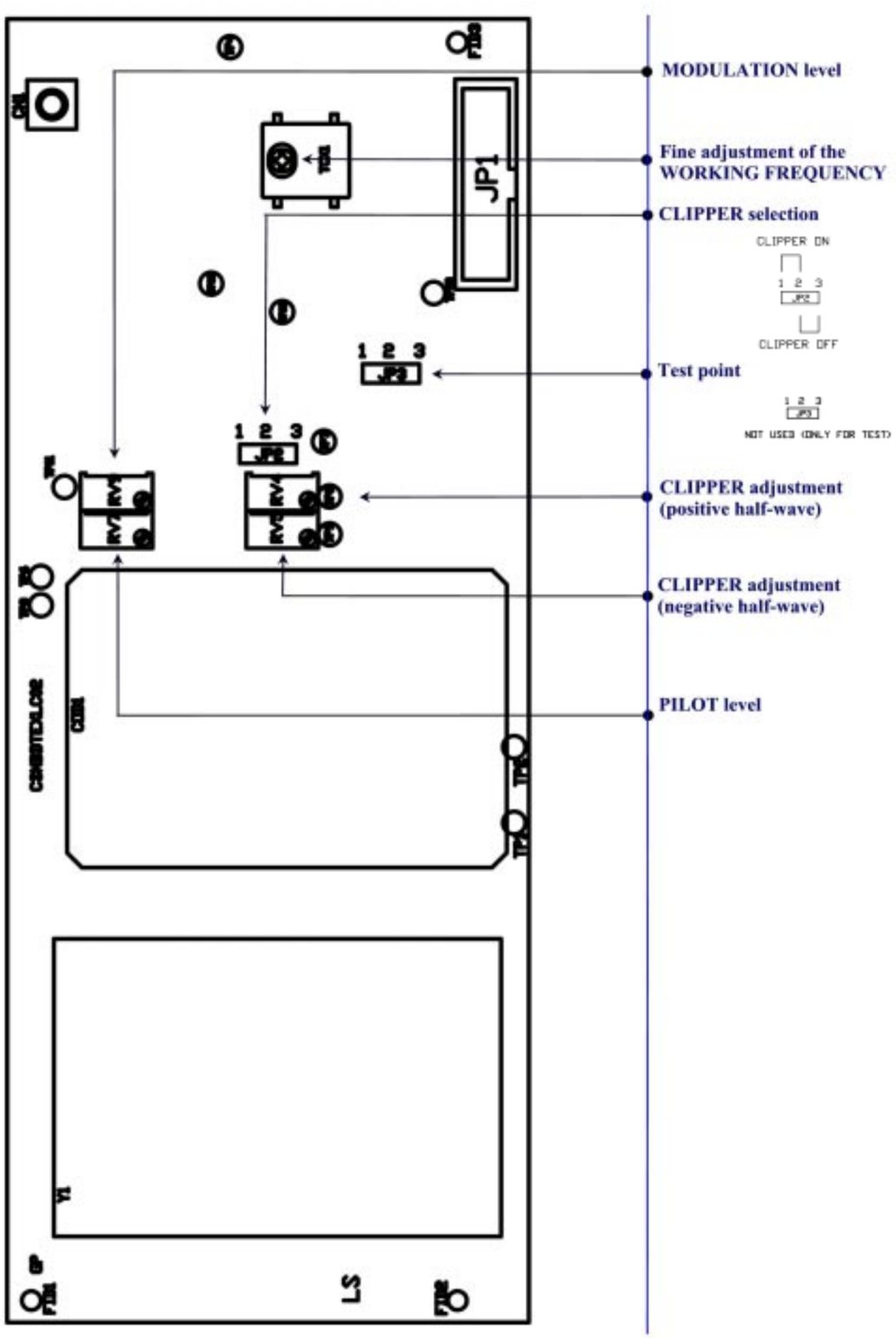
Nome Progetto:	TEX LCD			**Pagina:** 5 di 5	**Size:** A4
Autore:	Ufficio Tecnico	**Data:**	29/07/03	**Codice Progetto:**	TEX30LCD/S
Nome PC in Rete:	\\UT_SRV\PROGETTI	**Revisione:**	2.0	**Nome Parte:**	VCO (SCHEDA STEREO)
File/Cartella:	Manuali\TEX-LCD\SLMBDTEXLC02\STEREO.dsn	**Autorizzazione:**		**Codice:**	SLMBDTEXLC02



None Progetto:	TEX LCD	Pagina: 1 di 2	Size: A4
Autore:	Ufficio Tecnico	Data: 29/07/03	Codice Progetto: TEX30LCD/S
None PC in Rete:	\\UT_SRV\PROGETTI	Revisione: 2.0	None Parte: LATO COMPONENTI - STEREO CARD
File/Cartella:	MANUALI\TEX-LCD\SLMBDTEXLC02\LATO_COMP.dwg	Autorizzazione:	Codice: SLMBDTEXLC02
Scala: /	Materiale: /	Trattamento: /	Profilo: /



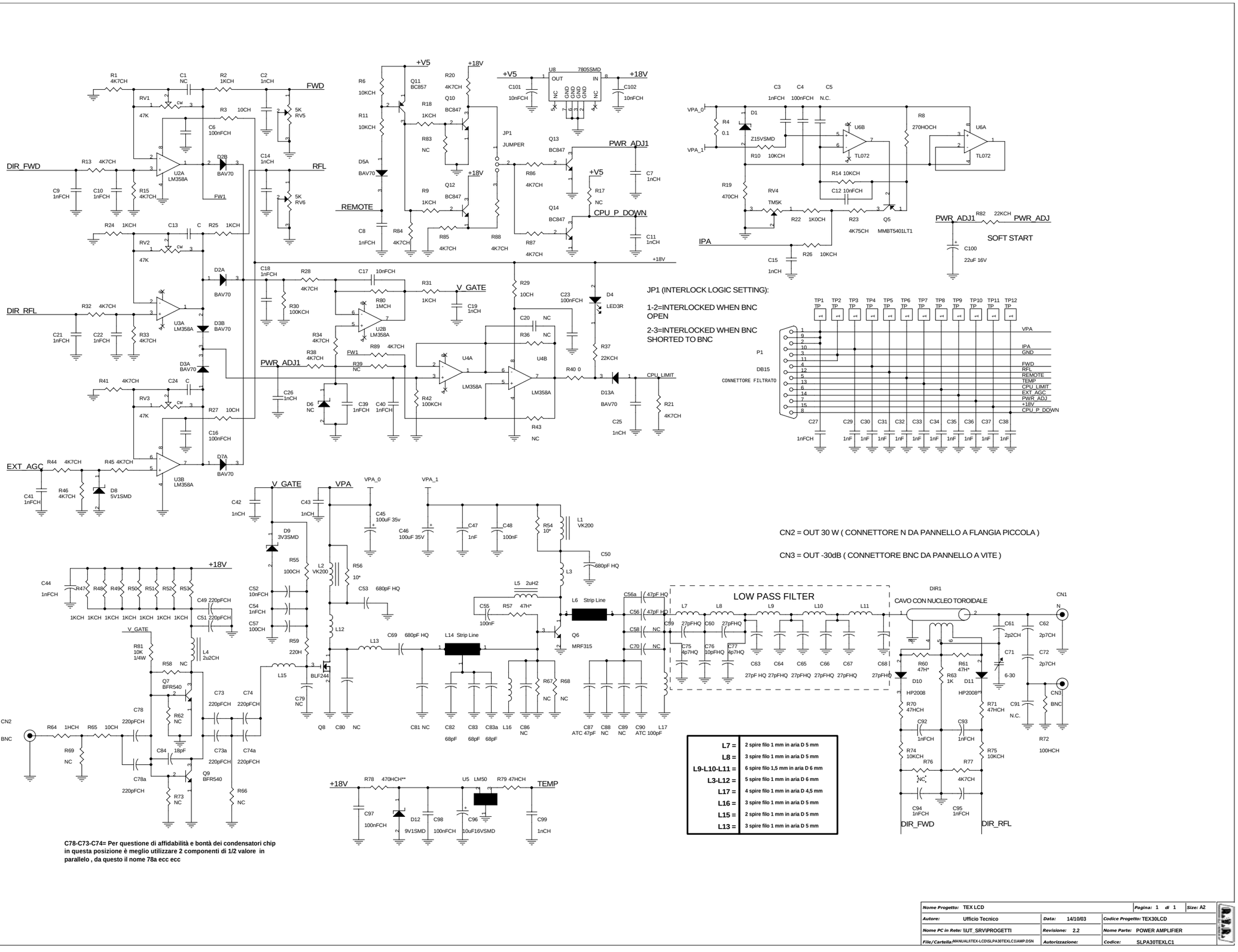
None Progetto:	TEX LCD	Pagina: 2 di 2	Size: A4
Autore:	Ufficio Tecnico	Data: 29/07/03	Codice Progetto: TEX30LCD/S
None PC in Rete:	\\UT_SRV\PROGETTI	Revisione: 2.0	None Parte: LATO SMD - STEREO CARD
File/Cartella:	MANUALI\TEX-LCD\SLMBDTEXLC02\LATO_SMD.dwg	Autorizzazione:	Codice: SLMBDTEXLC02
Scala: /	Materiale: /	Trattamento: /	Profilo: /

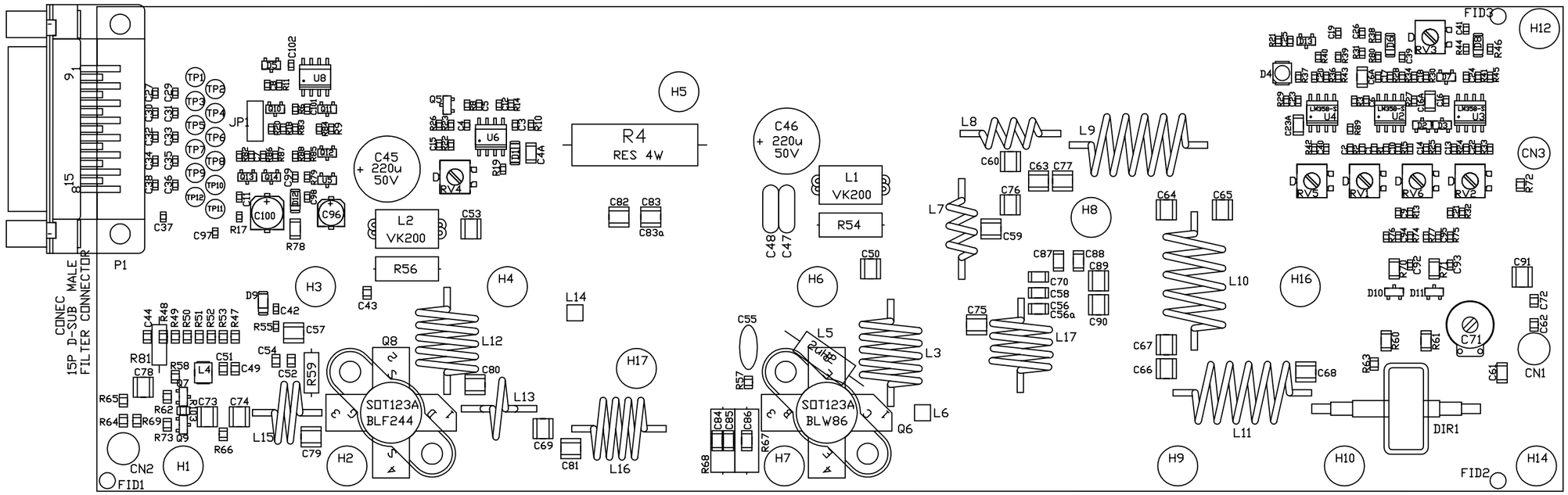


Stereo Audio Card - Bill Of Materials

Item	Q.ty	Reference	Part
1	1	CN1	SMB_CS
2	1	CN2	XLRFCSD
3	4	CN3,CN4,CN5,CN6	BNC_IS
4	26	C1,C3,C30,C32,C33,C34, C35,C48,C61,C62,C63,C68, C69,C70,C71,C76,C78,C86, C89,C104,C105,C109,C115, C120,C121,C123	10uF
5	24	C2,C4,C7,C10,C23,C36,C37, C42,C45,C57,C58,C59,C64, C67,C74,C79,C84,C85,C88, C96,C119,C126,C127,C136	0.1uF
6	14	C5,C6,C8,C9,C11,C12,C16, C17,C19,C20,C21,C22,C99, C100	27pF
7	2	C13,C25	0.47uF
8	9	C14,C15,C18,C24,C38,C98, C110,C114,C122	10nF
9	2	C28,C26	15pF
10	3	C27,C29,C111	47pF
11	4	C31,C60,C128,C129	220uF
12	3	C40,C101,C102	2.2pF
13	2	C43,C44	100uF
14	1	C46	1n5
15	9	C47,C72,C97,C106,C107, C108,C124,C134,C135	1nF
16	8	C49,C50,C51,C52,C53,C54, C55,C56	3n3
17	3	C65,C112,C125	22pF
18	1	C66	10pF
19	14	C73,C75,C81,C82,C92A,C92, R100,C116,R138,R139,R140, R142,R143,R144	NC
20	1	C77	4.7nF
21	3	C80,C132,C133	47uF
22	3	C87,C90,C91	470nF
23	1	C113	33pF
24	1	C117	470pF
25	1	DZ1	LM4040-10
26	1	D1	5V1
27	8	D2,D3,D4,D5,D6,D7,D8,D10	BAV99
28	1	D9	BAV70
29	3	D11,D12,D13	HSMS2800
30	8	D14,D15,D16,D17,D18,D19, D20,D21	MMBV109
31	9	FIX1,FIX2,FIX3,FIX4,FIX5, FIX6,FIX7,FIX8,FIX9	FIX35
32	1	JP1	CN16PD
33	2	JP3,JP2	STM03S
34	1	JP4	PIAZZ.
35	1	LD1	LED TLM310
36	9	L1,L2,L3,L4,L5,L6,L8,L12, L14	2u2
37	1	L9	u22

38	1	L10	22uH
39	1	L11	2.2uH
40	1	L13	LCAVO
41	6	Q1,Q4,Q5,Q6,Q9,Q13	BC847
42	2	Q3,Q2	BC857
43	4	Q7,Q8,Q11,Q12	MMBFJ310
44	1	Q10	BFR540
45	6	RV1,RV2,RV3,RV4,RV5,RV11	TR10K
46	2	RV6,RV7	TR5K
47	3	RV8,RV9,RV10	TRSMD500
48	5	R1,R2,R3,R4,R36	2K49
49	2	R5,R71	51H0
50	16	R6,R7,R9,R12,R13,R25,R30, R34,R38,R52,R53,R92,R93, R95,R96,R141	10K0
51	8	R8,R15,R19,R73,R84,R85, R87,R89	1K0
52	4	R10,R39,R40,R41	49K9
53	2	R11,R131	100K
54	1	R14	100K0
55	1	R16	2M2
56	1	R17	1uF
57	3	R18,R118,R119	330H0
58	1	R20	17K4
59	2	R22,R21	1M0
60	11	R23,R74,R86,R94,R97,R102, R106,R107,R108,R109,R113	4K75
61	2	R24,R78	47
62	2	R26,R35	15K0
63	1	R27	12K1
64	2	R28,R58	2K21
65	6	R29,R42,R43,R44,R98,R137	100H0
66	1	R31	604H0
67	2	R32,R33	10H0
68	1	R37	560H0
69	3	R45,R68,R69	4K99
70	1	R46	5K49
71	6	R47,R49,R54,R55,R56,R57	3K16
72	1	R48	442H0
73	2	R50,R72	3K83
74	2	R51,R64	316K0
75	2	R59,R62	2K67
76	1	R60	5K36
77	1	R61	1K58
78	1	R63	4K64
79	1	R65	51
80	1	R66	3K01
81	2	R67,R70	5K11
82	4	R76,R77,R117,R130	22H0
83	4	R79,R80,R81,R82	47K5
84	2	R83,R88	470K
85	1	R90	274K0
86	1	R91	220
87	1	R99	470H0
88	2	R145,R101	2K2
89	2	R103,R105	274K
90	5	R104,R110,R111,R112,R136	6K81
91	2	R114,R115	8H2
92	1	R116	120
93	1	R120	68
94	1	R121	6H8
95	2	R122,R135	56
96	4	R123,R124,R125,R134	150
97	1	R126	15K
98	1	R127	82
99	2	R129,R128	27
100	1	R132	10
101	1	R133	330K
102	2	SW1,SW2	SWDIP2
103	1	TCX1	STO-7D52
104	15	TP1,TP2,TP3,TP4,TP5,TP6, TP7,TP8,TP9,TP10,TP11, TP12,TP13,TP14,TP15	TP
105	1	U1	7815
106	2	U2,U13	TL071
107	3	U3,U5,U11	LM358SMD
108	2	U12,U4	TL072
109	1	U6	LM393SMD
110	2	U8,U7	LF347SMD
111	1	U9	MB15E06
112	1	U10	MC78LC30
113	1	U14	4070
114	1	Y1	MAR6

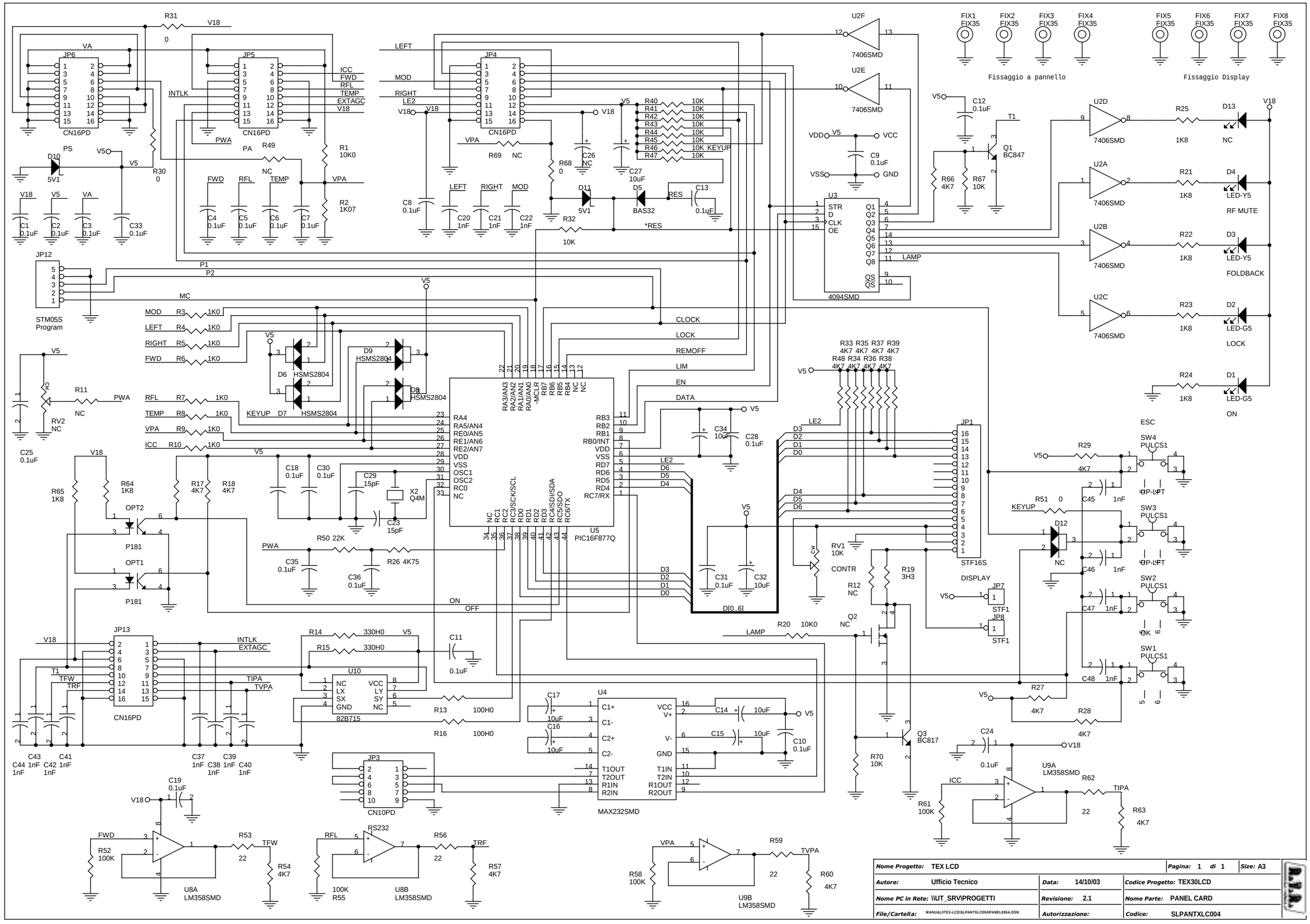

DIR_FWD
DIR_RFL
EXT_AGC
FWD
RFL
REMOTE
TEMP
CPU_LIMIT
PWR_ADJ1
V_GATE
VPA
VPA_0
VPA_1
IPA
+V5
+18V
CPU_P_DOWN
JP1 (INTERLOCK LOGIC SETTING):
1-2=INTERLOCKED WHEN BNC OPEN
2-3=INTERLOCKED WHEN BNC SHORTED TO BNC
CN2 = OUT 30 W (CONNETTORE N DA PANNELLO A FLANGIA PICCOLA)
CN3 = OUT -30dB (CONNETTORE BNC DA PANNELLO A VITE)
LOW PASS FILTER
CAVO CON NUCLEO TOROIDALE
SOFT START
P1
DB15
CONNETTORE FILTRATO
L7 = 2 spire filo 1 mm in aria D 5 mm
L8 = 3 spire filo 1 mm in aria D 5 mm
L9-L10-L11 = 6 spire filo 1,5 mm in aria D 6 mm
L3-L12 = 5 spire filo 1 mm in aria D 6 mm
L17 = 4 spire filo 1 mm in aria D 4,5 mm
L16 = 3 spire filo 1 mm in aria D 5 mm
L15 = 2 spire filo 1 mm in aria D 5 mm
L13 = 3 spire filo 1 mm in aria D 5 mm
C78-C73-C74= Per questione di affidabilità e bontà dei condensatori chip in questa posizione è meglio utilizzare 2 componenti di 1/2 valore in parallelo , da questo il nome 78a ecc ecc
Nome Progetto: TEX LCD
Pagina: 1 di 1
Size: A2
Autore: Ufficio Tecnico
Data: 14/10/03
Codice Progetto: TEX30LCD
Nome PC in Rete: \\UT_SRV\PROGETTI
Revisione: 2.2
Nome Parte: POWER AMPLIFIER
File/Cartella: MANUALI\TEX-LCD\SLPA30TEXLC1\AMP.DSN
Autorizzazione:
Codice: SLPA30TEXLC1

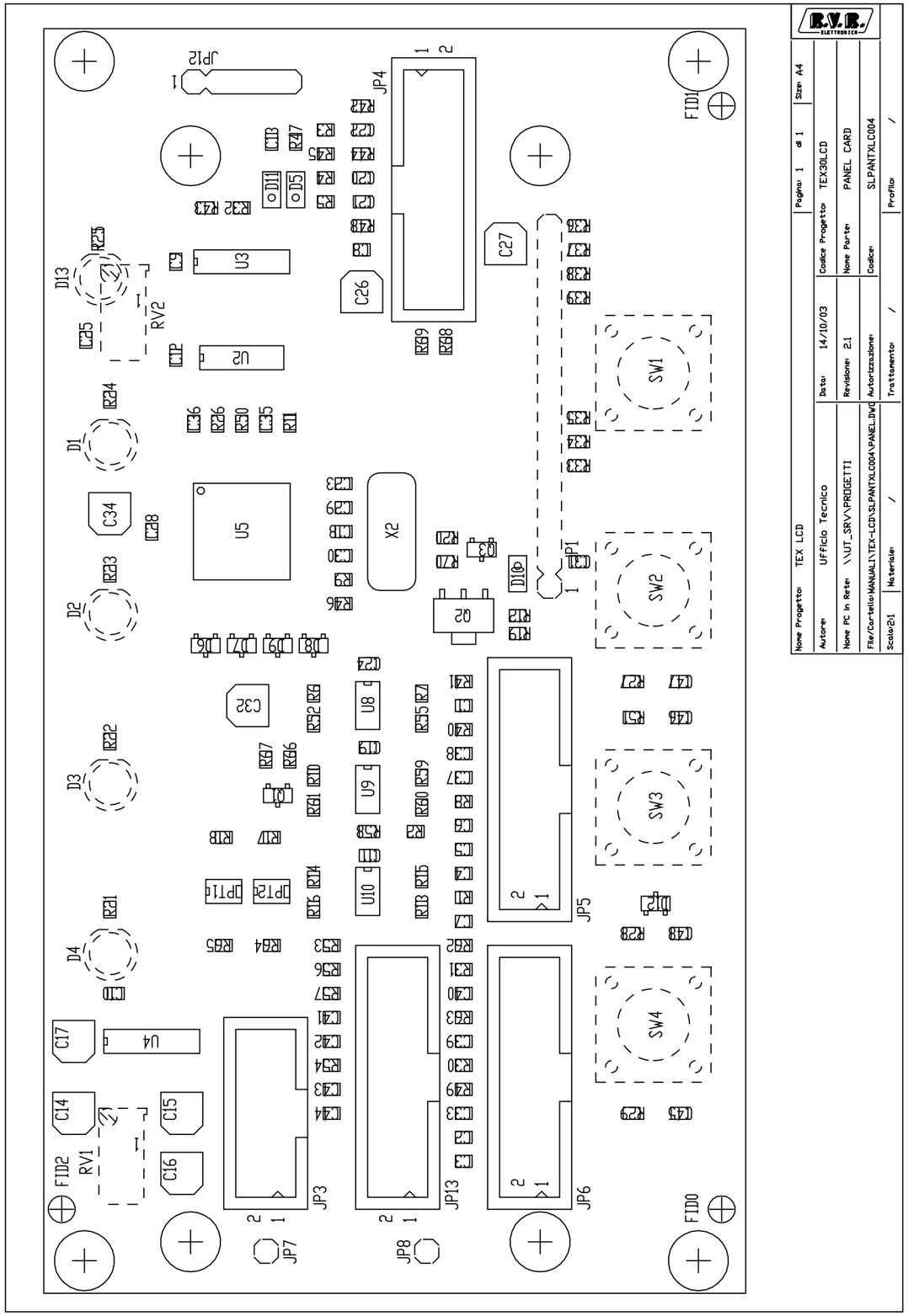


Nome Progetto:	TEX LCD			Pagina: 1 di 1	Size: A3
Autore:	Ufficio Tecnico	Data:	14/10/03	Codice Progetto:	TEX30LCD
Nome PC in Rete:	\\UT_SRV\PROGETTI	Revisione:	2.2	Nome Parte:	POWER AMPLIFIER
File/Cartella:	MANUALI\TEX-LCD\SLPA30TEXLC1\AMP.DWG	Autorizzazione:		Codice:	SLPA30TEXLC1
Scala: /	Materiale: /	Trattamento:	/	Profilo:	/

FINALE ECOTEX 30W

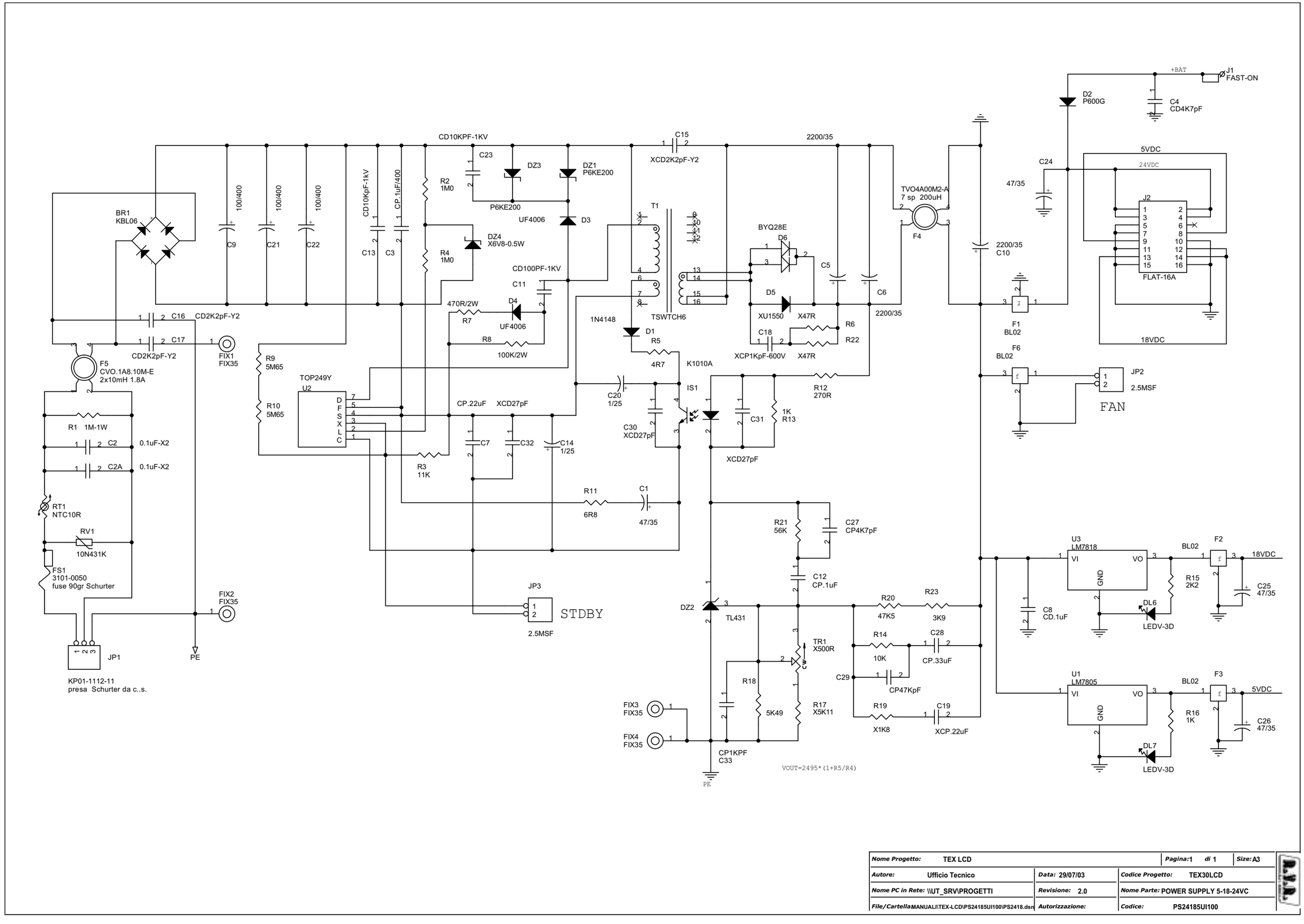
Item	Q.ty	Reference	Part
1	1	CN1	N
2	2	CN2,CN3	BNC
3	24	C1,D6,R17,C20,R36,R39, R43,R58,C58,R62,R66,R67, R68,R69,R76C70,R73,C79, C80,C81,R83,C86,C88,C89	NC
4	11	C2,C7,C11,C14,C15,C19, C25,C26,C42,C43,C99	1nCH
5	17	C3,C8,C9,C10,C18,C21, C22,C27,C39,C40,C41,C44, C54,C92,C93,C94,C95	1nFCH
6	6	C4,C6,C16,C23,C97,C98	100nFCH
7	5	C12,C17,C52,C101,C102	10nFCH
8	2	C13,C24	C
9	11	C29,C30,C31,C32,C33,C34, C35,C36,C37,C38,C47	1nF
10	2	C46,C45	100uF 35v
11	2	C48,C55	100nF
12	8	C49,C51,C73a,C73,C74a, C74,C78a,C78	220pFCH
13	3	C50,C53,C69	680pF HQ
14	2	C56,C56a	47pF HQ
15	2	C57,R55	100CH
16	7	C59,C60,C64,C65,C66,C67, C68	27pFHQ
17	1	C61	2p2CH
18	2	C72,C62	2p7CH
19	1	C63	27pF HQ
20	1	C71	6-30
21	2	C77,C75	4p7HQ
22	1	C76	10pFHQ
23	3	C82,C83,C83a	68pF
24	1	C87	ATC 47pF
25	1	C90	ATC 100pF
26	1	C91	N.C.
27	1	C96	10uF16VSMD
28	1	C100	22uF 16V
29	1	DIR1	TRANSMISSION LINE
30	1	D1	Z15VSMD
31	5	D2,D3,D5,D7,D13	BAV70
32	1	D4	LED3R
33	1	D8	5V1SMD
34	1	D9	3V3SMD
35	2	D10,D11	HP2008
36	1	D12	9V1SMD
37	1	JP1	JUMPER
38	2	L1,L2	VK200
39	11	L3,L7,L8,L9,L10,L11,L12, L13,L15,L16,L17	IND
40	1	L4	2u2CH
41	1	L5	2uH2
42	2	L14,L6	Strip Line
43	1	P1	DB15
44	1	Q5	MMBT5401LT1
45	1	Q6	MRF315
46	2	Q9,Q7	BFR540
47	1	Q8	BLF244
48	4	Q10,Q12,Q13,Q14	BC847
49	1	Q11	BC857
50	3	RV1,RV2,RV3	47K
51	1	RV4	TM5K
52	2	RV5,RV6	5K
53	21	R1,R13,R15,R20,R21,R28, R32,R33,R34,R38,R41,R44, R45,R46,R77,R84,R85,R86, R87,R88,R89	4K7CH
54	13	R2,R9,R18,R24,R25,R31, R47,R48,R49,R50,R51,R52, R53	1KCH
55	4	R3,R27,R29,R65	10CH
56	1	R4	0,1
57	7	R6,R10,R11,R14,R26,R74, R75	10KCH
58	1	R8	270HOCH
59	1	R19	470CH
60	1	R22	1K0CH
61	1	R23	4K75CH
62	2	R42,R30	100KCH
63	2	R82,R37	22KCH
64	1	R40	0
65	2	R54,R56	10*
66	3	R57,R60,R61	47H*
67	1	R59	220H
68	1	R63	1K
69	1	R64	1HCH
70	3	R70,R71,R79	47HCH
71	1	R72	100HCH
72	1	R78	470HCH**
73	1	R80	1MCH
74	1	R81	10K
75	12	TP1,TP2,TP3,TP4,TP5,TP6, TP7,TP8,TP9,TP10,TP11, TP12	TP
76	3	U2,U3,U4	LM358A
77	1	U5	LM50
78	1	U6	TL072
79	1	U8	7805SMD
80	1	C84	18pF
81	1	C5	N.C.


Fissaggio a pannello
Fissaggio Display
CN16PD
7406SMD
4094SMD
STM05S Program
MAX232SMD
PIC16F877Q
LM358SMD
CN10PD
82B715
STF16S
RF MUTE
FOLDBACK
LOCK
ON
ESC
Nome Progetto: TEX LCD
Pagina: 1 di 1
Size: A3
Autore: Ufficio Tecnico
Data: 14/10/03
Codice Progetto: TEX30LCD
Nome PC in Rete: \\UT_SRV\PROGETTI
Revisione: 2.1
Nome Parte: PANEL CARD
File/Cartella: MANUALI\TEX-LCD\SLPANTXLC004\PANEL006A.DSN
Autorizzazione:
Codice: SLPANTXLC004



Panel Board

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	7	C14,C15,C16,C17,C27,C32 C34	10uF
3	15	C20,C21,C22,C37,C38,C39, C40,C41,C42,C43,C44,C45, C46,C47,C48	1nF
4	2	C29,C23	15pF
5	2	D1,D2	LED-G5
6	2	D3,D4	LED-Y5
7	1	D5	BAS32
8	4	D6,D7,D8,D9	HSMS2804
9	2	D11,D10	5V1
10	9	RV2,Q2,R11,R12,D12,D13, R49,R69,C26	NC
11	8	FIX1,FIX2,FIX3,FIX4,FIX5, FIX6,FIX7,FIX8	FIX35
12	1	JP1	STF16S
13	1	JP3	CN10PD
14	4	JP4,JP5,JP6,JP13	CN16PD
15	2	JP8,JP7	STF1
16	1	JP12	STM05S
17	2	OPT1,OPT2	P181
18	1	Q1	BC847
19	1	Q3	BC817
20	12	RV1,R32,R40,R41,R42,R43, R44,R45,R46,R47,R67,R70	10K
21	2	R1,R20	10K0
22	1	R2	1K07
23	8	R3,R4,R5,R6,R7,R8,R9,R10	1K0
24	2	R13,R16	100H0
25	2	R15,R14	330H0
26	18	R17,R18,R27,R28,R29,R33, R34,R35,R36,R37,R38,R39, R48,R54,R57,R60,R63,R66	4K7
27	1	R19	3H3
28	7	R21,R22,R23,R24,R25,R64, R65	1K8
29	1	R26	4K75
30	4	R30,R51,R68,R31	0
31	1	R50	22K
32	4	R52,R55,R58,R61	100K
33	4	R53,R56,R59,R62	22
34	4	SW1,SW2,SW3,SW4	PULCS1
35	1	U2	7406SMD
36	1	U3	4094SMD
37	1	U4	MAX232SMD
38	1	U5	PIC16F877Q
39	2	U8,U9	LM358SMD
40	1	U10	82B715
41	1	X2	Q4M



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Autore: Ufficio Tecnico	Data: 29/07/03	Codice Progetto: TEX30LCD	
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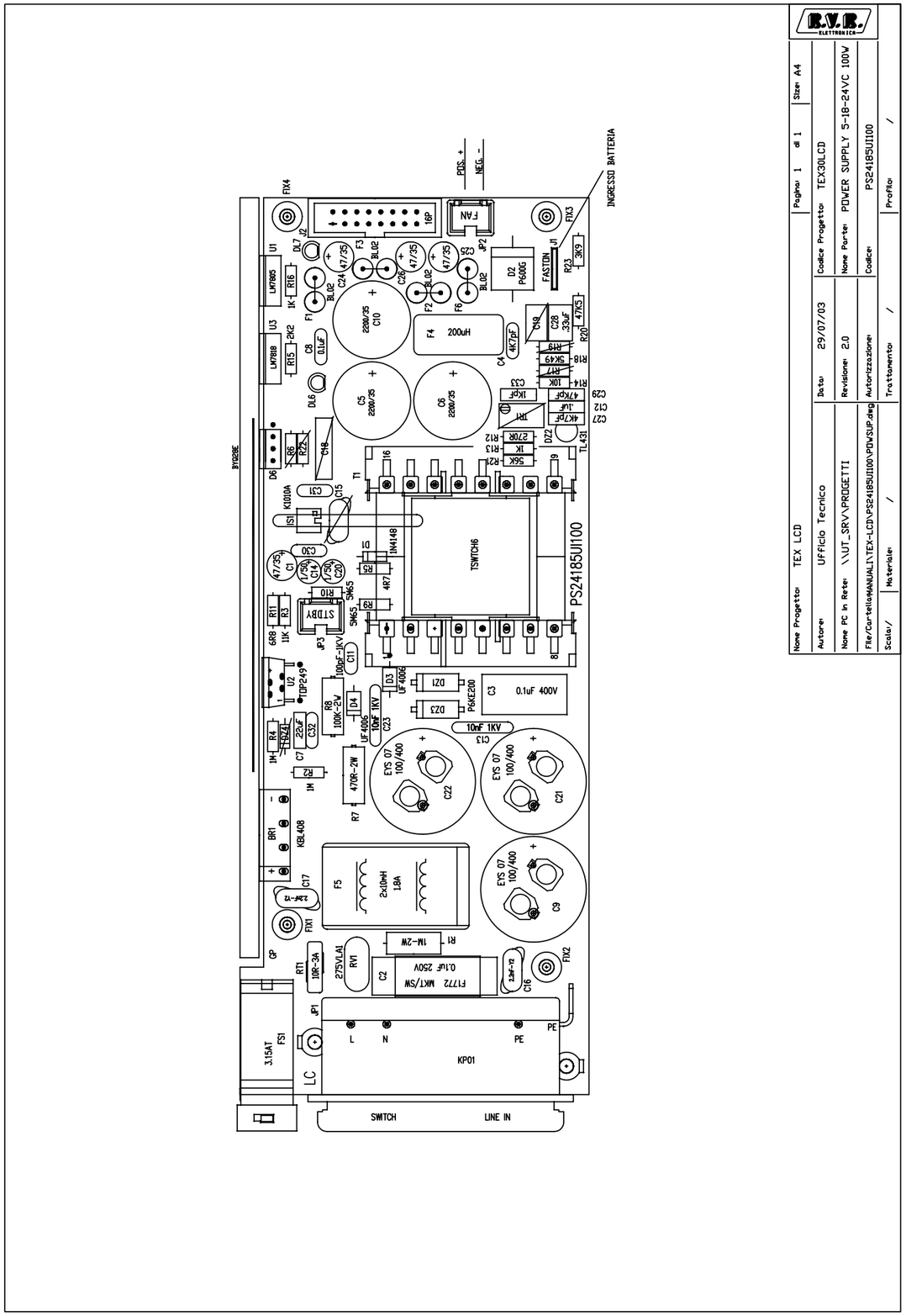
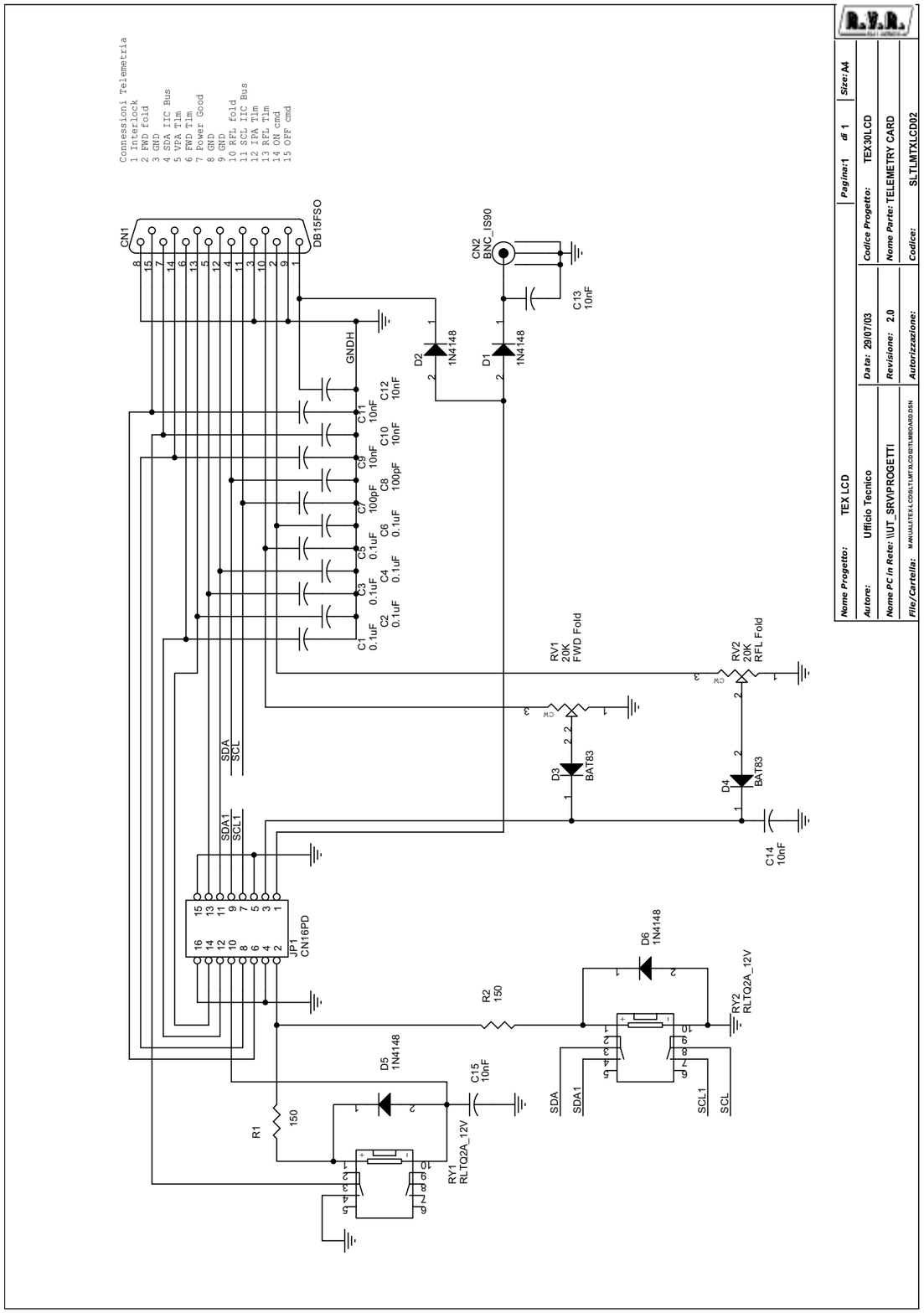
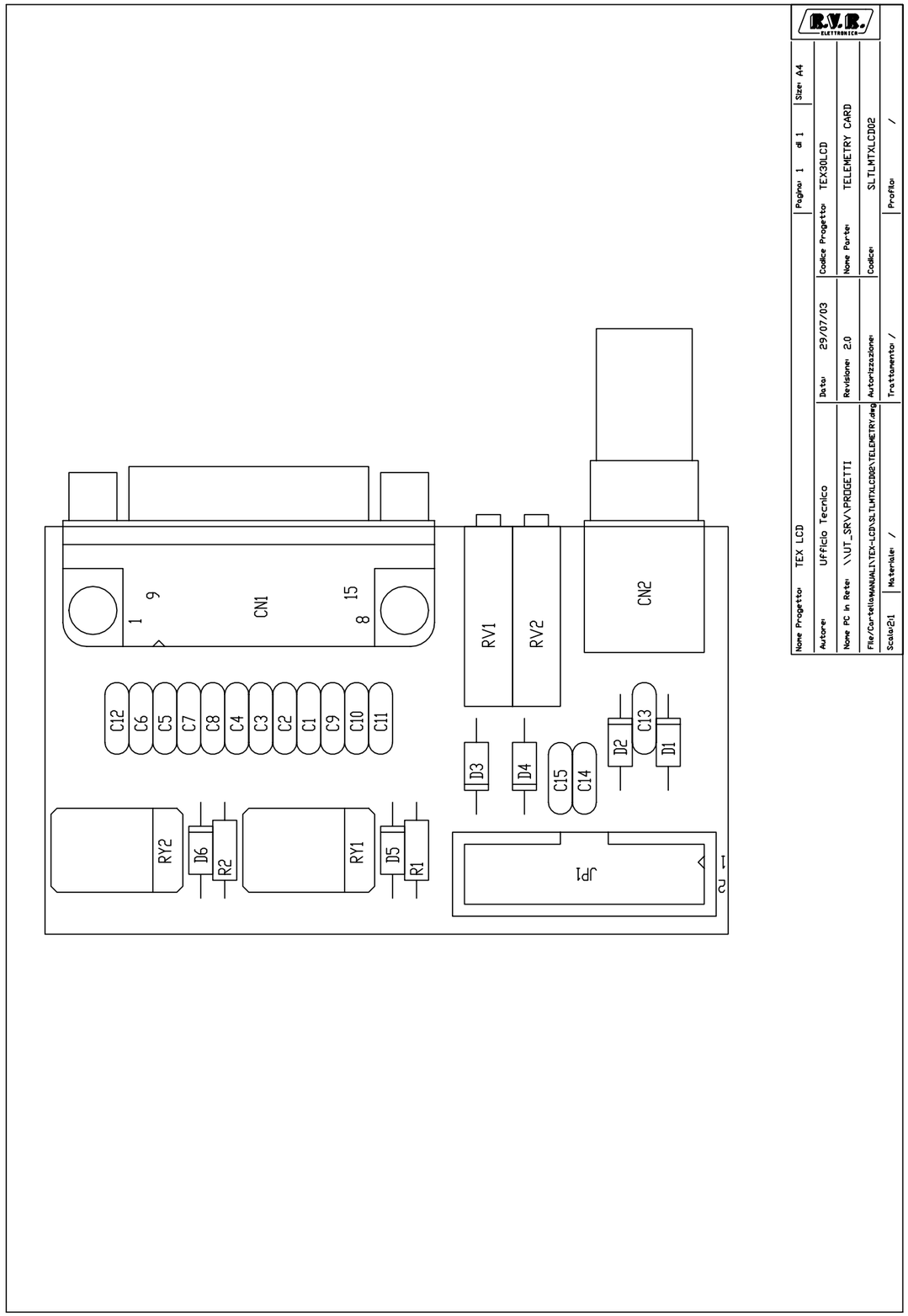


Power Supply - Bill Of Materials

Item	Q.ty	Reference	Part
1	1	BR1	KBL06
2	4	C1,C24,C25,C26	47/35
3	2	C2A,C2	0.1uF-X2
4	1	C3	CP.1uF/400
5	1	C4	CD4K7pF
6	3	C5,C6,C10	2200/35
7	1	C7	CP.22uF
8	1	C8	CD.1uF
9	3	C9,C21,C22	100/400
10	1	C11	CD100PF-1KV
11	1	C12	CP.1uF
12	2	C23,C13	CD10KpF-1kV
13	2	C14,C20	1/25
14	1	C15	XCD2K2pF-Y2
15	2	C16,C17	CD2K2pF-Y2
16	1	C18	XCP1KpF-600V
17	1	C19	XCP.22uF
18	1	C27	CP4K7pF
19	1	C28	CP.33uF
20	1	C29	CP47KpF
21	3	C30,C31,C32	XCD27pF
22	2	DL6,DL7	LEDV-3D
23	2	DZ3,DZ1	P6KE200
24	1	DZ2	TL431
25	1	DZ4	X6V8-0.5W
26	1	D1	1N4148
27	1	D2	P600G
28	2	D4,D3	UF4006
29	1	D5	XU1550
30	1	D6	BYQ28E
31	1	FS1	3101-0050
32	4	F1,F2,F3,F6	BL02
33	1	F4	TVO4A00M2-A
34	1	F5	CVO.1A8.10M-E
35	1	JP1	KP01-1112-11
36	2	JP3,JP2	2.5MSF
37	1	J1	FAST-ON
38	1	J2	FLAT-16A
39	1	RT1	NTC10R
40	1	RV1	10N431K
41	1	R1	1M-1W
42	2	R2,R4	1M0
43	1	R3	11K
44	1	R5	4R7
45	2	R6,R22	X47R
46	1	R7	470R/2W
47	1	R8	100K/2W
48	2	R10,R9	5M65
49	1	R11	6R8
50	1	R12	270R
51	2	R16,R13	1K
52	1	R14	10K
53	1	R15	2K2
54	1	R17	X5K11

55	1	R18	5K49
56	1	R19	X1K8
57	1	R20	47K5
58	1	R21	56K
59	1	R23	3K9
60	1	TR1	X500R
61	1	T1	TSWTCH6
62	1	U1	LM7805
63	1	U2	TOP249Y
64	1	U3	LM7818


Connessioni Telemetria
1 Interlock
2 RWD fold
3 GND
4 SDA IIC Bus
5 VPA Tlm
6 FWD Tlm
7 Power Good
8 GND
9 GND
10 RFL fold
11 SCL IIC Bus
12 IPA Tlm
13 RFL Tlm
14 ON cmd
15 OFF cmd
CN1
DB15FSO
CN2
BNC_IS90
C13
10nF
D2
1N4148
D1
1N4148
GNDH
C1 0.1uF
C2 0.1uF
C3 0.1uF
C4 0.1uF
C5 0.1uF
C6 0.1uF
C7 100pF
C8 100pF
C9 10nF
C10 10nF
C11 10nF
C12 10nF
RV1
20K
FWD Fold
RV2
20K
RFL Fold
D3
BAT83
D4
BAT83
C14
10nF
SDA
SCL
SDA1
SCL1
JP1
CN16PD
D6
1N4148
R2
150
RY2
RLTQ2A_12V
D5
1N4148
C15
10nF
R1
150
RY1
RLTQ2A_12V
Nome Progetto: TEX LCD
Autore: Ufficio Tecnico
Nome PC in Rete: \\UT_SRV\PROGETTI
File/Cartella: MANUALI\TEX-LCD\SLTLMTXLCD02\SLTLMTXLCD002.DSN
Pagina: 1 di 1
Size: A4
Data: 29/07/03
Revisione: 2.0
Codice Progetto: TEX30LCD
Nome Parte: TELEMETRY CARD
Autorizzazione:
Codice: SLTLMTXLCD002


CN1
CN2
RV1
RV2
C12
C6
C5
C7
C8
C4
C3
C2
C1
C9
C10
C11
D3
D4
C15
C14
D2
C13
D1
RY2
D6
R2
RY1
D5
R1
JP1
Nome Progetto: TEX LCD
Autore: Ufficio Tecnico
Nome PC in Rete: \\UT_SRV\PROGETTI
File/Cartella: MANUALI\TEX-LCD\SLTLMTXLCD02\TELEMETRY.dwg
Scala: 2:1
Materiale: /
Pagina: 1 di 1
Size: A4
Data: 29/07/03
Revisione: 2.0
Codice Progetto: TEX30LCD
Nome Parte: TELEMETRY CARD
Autorizzazione:
Codice: SLTLMTXLCD02
Trattamento: /
Profilo: /

Telemetry Card - Bill Of Materials

Item	Quantity	Reference	Part	Description
1	1	CN1	DB15FSO	DB15FCSH
2	1	CN2	BNC_IS90	BNCHCS
3	6	C1,C2,C3,C4,C5,C6	0.1uF	CCP5
4	2	C7,C8	100pF	CCP5
5	7	C9,C10,C11,C12,C13,C14, C15	10nF	CCP5
6	4	D1,D2,D5,D6	1N4148	DO35
7	2	D3,D4	BAT83	DO35
8	1	JP1	CN16PD	FLAT16V
9	2	RV1,RV2	20K	70Y
10	2	RY2,RY1	RLTQ2A_12V	RLYTQ2
11	2	R1,R2	150	R1/4W