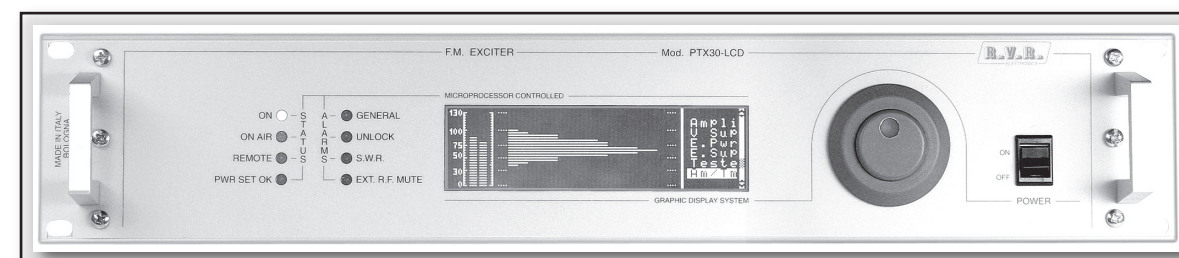

PTX LCD



User Manual Volume 2: Technical Appendix

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

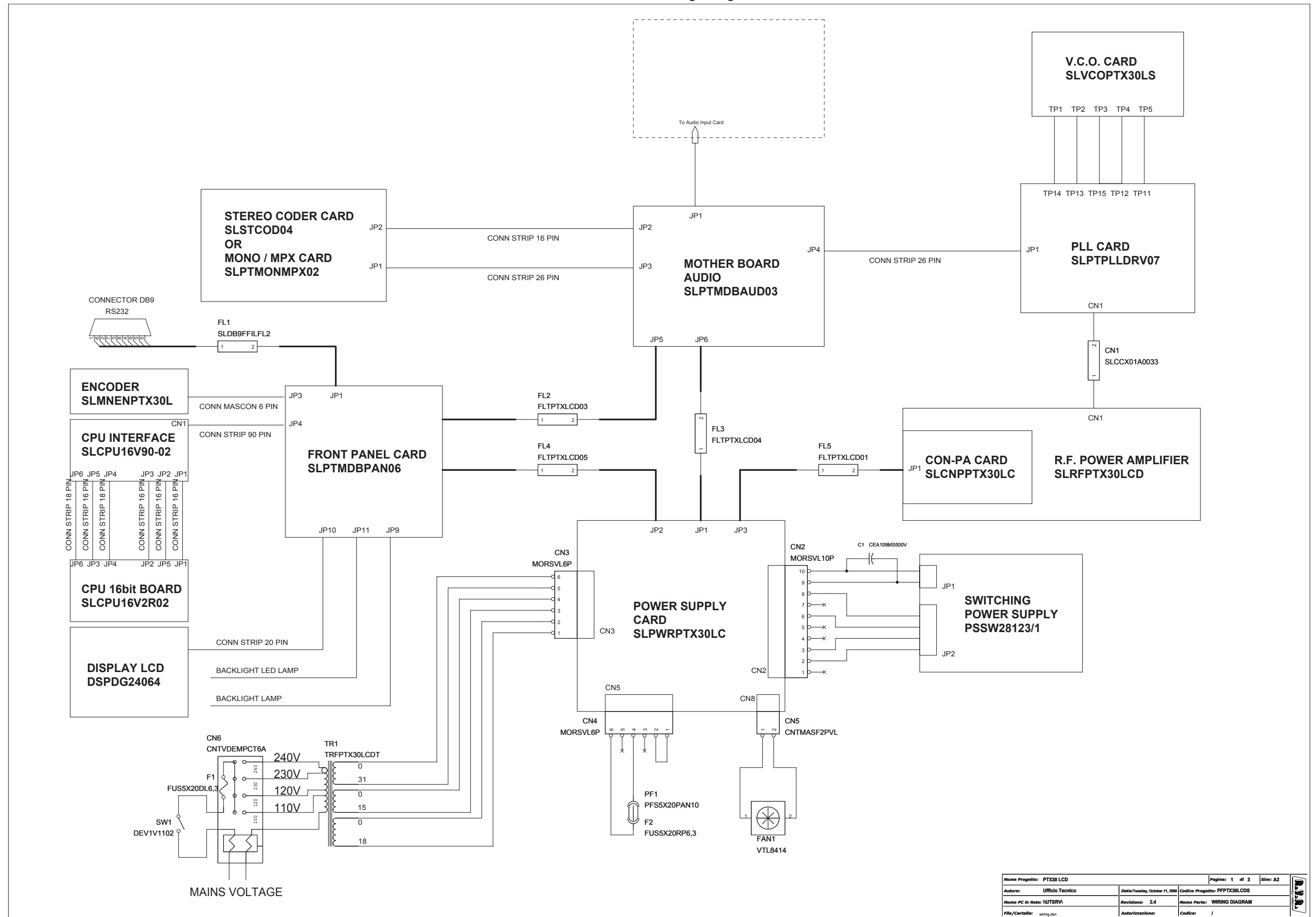
Questa parte del manuale contiene i dettagli tecnici riguardanti la costruzione delle singole schede componenti il PTX LCD. L'appendice è composta dalle seguenti sezioni:
This part of the manual contains the technical details about the different boards of the PTX LCD. This appendix is composed of the following sections:

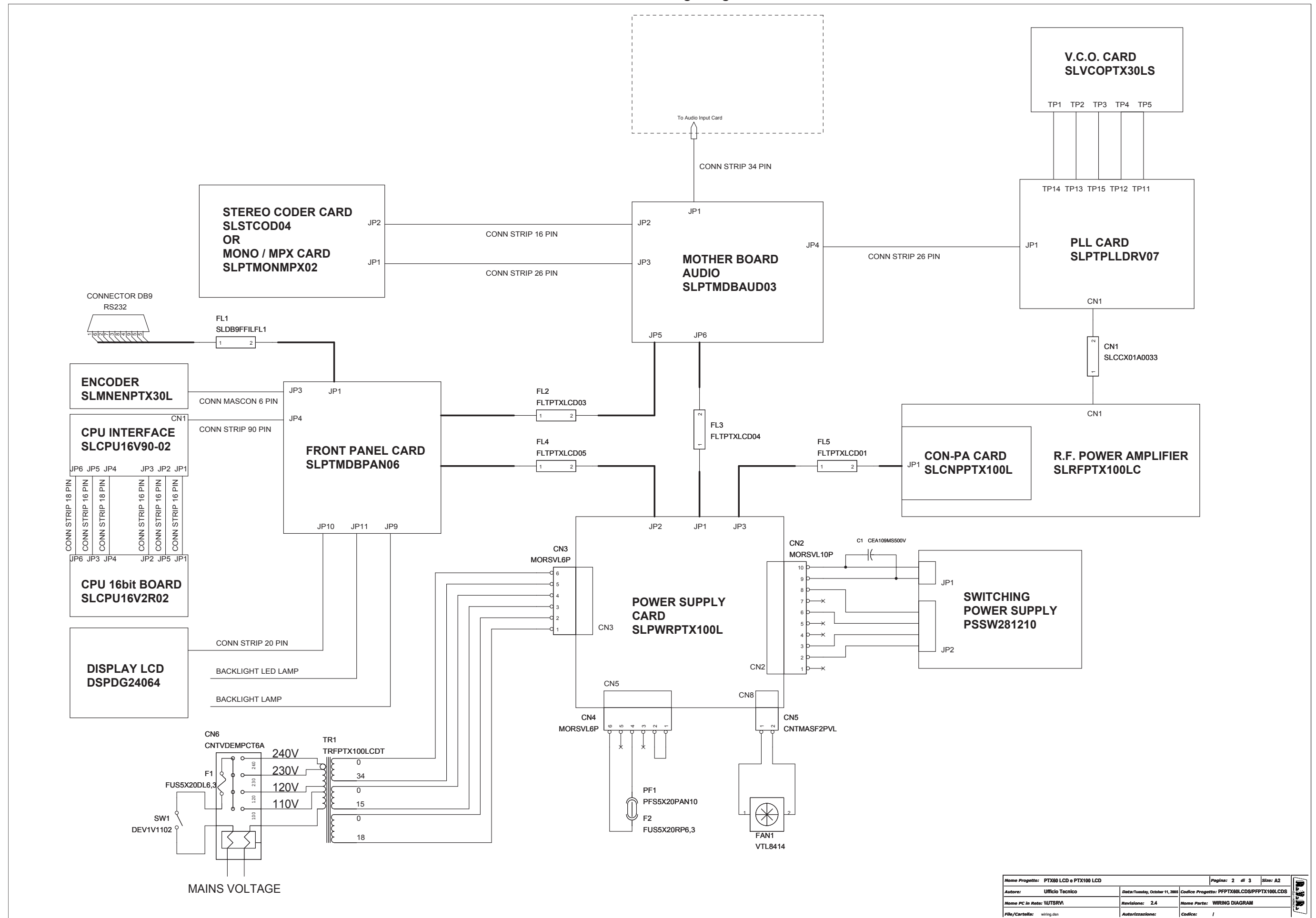
PTX30LCD	16-bit version	8-bit version		
<i>Description</i>	<i>RVR Code</i>	<i>RVR Code</i>	<i>Vers.</i>	<i>Page</i>
Wiring Diagrams		---	2.3	1
Wiring Diagrams	---		2.2	4
BNC Connectors Card	SLPTAUSBNC04	SLPTAUSBNC04	2.0	7
Audio Input Card	SLPTAUDINP04	SLPTAUDINP04	3.1	10
Audio Motherboard	SLPTMDBAUD03	SLPTMDBAUD03	2.0	13
Mono/MPX Coder Card	SLPTMONMPX02	SLPTMONMPX02	3.0	16
Stereo Coder Card	SLSTCOD04	SLSTCOD04	2.1	18
VCO Card	SLVCOPTX30LS	SLVCOPTX30LS	2.0	21
PLL & Driver Card	SLPTPLLDREV07	SLPTPLLDREV07	2.0	23
CPU Interface Card	SLCPU16V90-02	---	2.2	28
CPU 16Bit Card	SLCPU16V2R02	---	1.3	30
CPU 8Bit Card	---	SLPTCPU55202	2.1	32
Main Panel Card	SLPTMDBPAN06	SLPTMDBPAN06	2.2	34
Power Supply 30W	SLPWRPTX30LC	SLPWRPTX30LC	2.1	37
Switching Power Supply 30W	PSSW28123/1	PSSW28123/1	2.1	49
External Remote Card vers 1.3	SLTELEM013	SLTELEM013	2.0	57
External Remote Card vers 2.0	SLTELEM002	SLTELEM002	2.0	59
30W Power Amp connector	SLCNPPTX30LC	SLCNPPTX30LC	2.2	61
30W RF Power amplifier	SLREPTX30LCD	SLREPTX30LCD	2.2	65
Digital Audio Input	SLPTAUSBNC05	SLPTAUSBNC05	3.1	70
Audio Input Selector	RXAES	RXAES	2.0	72
Digital Audio Input TRDSP	TRDSP	TRDSP	2.0	75
Optional 24Vsupply board	SLBATT24-001	SLBATT24-001	2.1	76

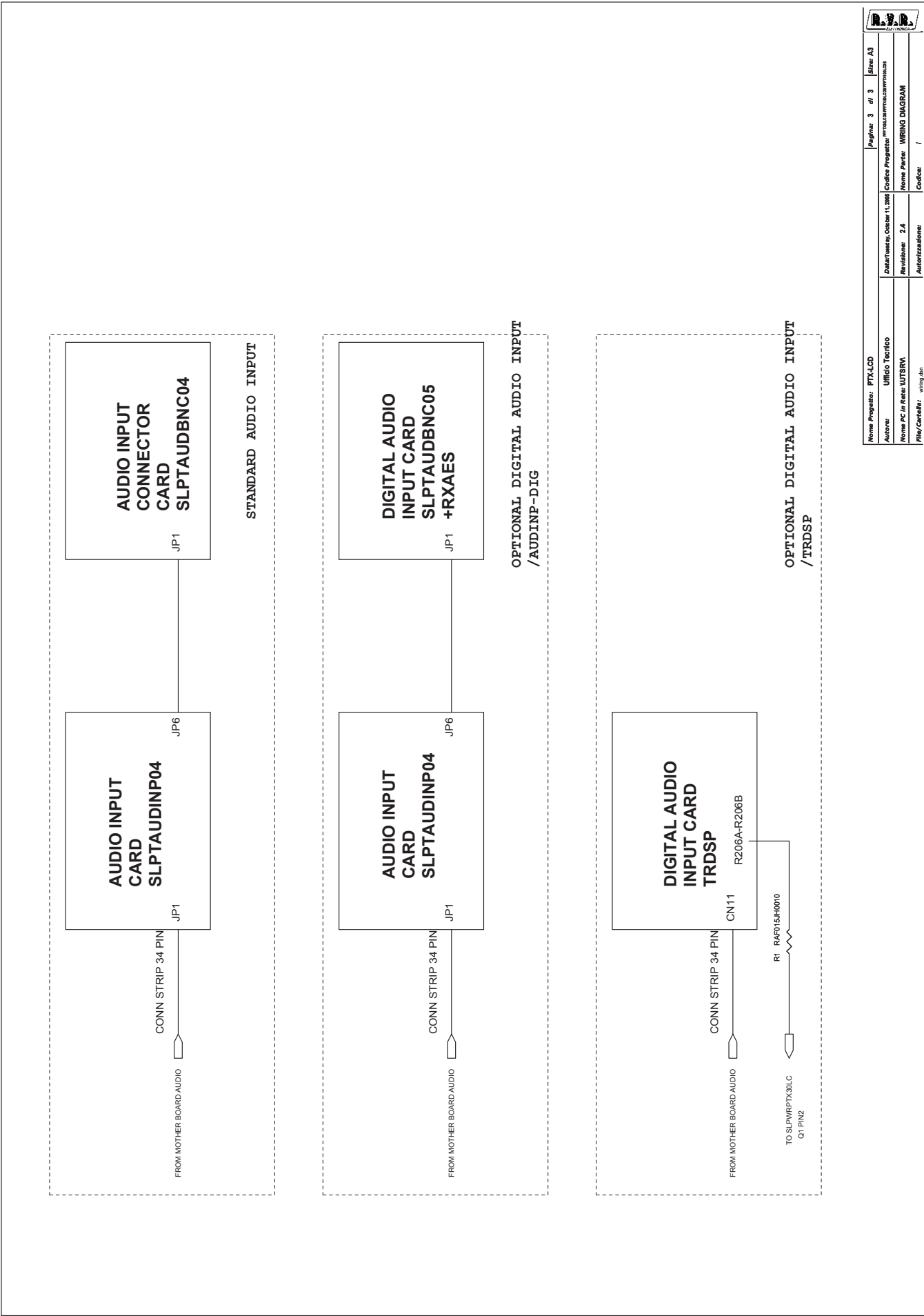
PTX60LCD&PTX100LCD	16-bit version	8-bit version		
<i>Description</i>	<i>RVR Code</i>	<i>RVR Code</i>	<i>Vers.</i>	<i>Page</i>
Wiring Diagrams		---	2.3	1
Wiring Diagrams	---		2.2	4
BNC Connectors Card	SLPTAUSBNC04	SLPTAUSBNC04	2.0	7
Audio Input Card	SLPTAUDINP04	SLPTAUDINP04	3.1	10
Audio Motherboard	SLPTMDBAUD03	SLPTMDBAUD03	2.0	13
Mono/MPX Coder Card	SLPTMONMPX02	SLPTMONMPX02	3.0	16
Stereo Coder Card	SLSTCOD04	SLSTCOD04	2.1	18
VCO Card	SLVCOPTX30LS	SLVCOPTX30LS	2.0	21
PLL & Driver Card	SLPTPLLDREV07	SLPTPLLDREV07	2.0	23
CPU Interface Card	SLCPU16V90-02	---	2.2	28
CPU 16Bit Card	SLCPU16V2R02	---	1.3	30
CPU 8Bit Card	---	SLPTCPU55202	2.1	32
Main Panel Card	SLPTMDBPAN06	SLPTMDBPAN06	2.2	34
Power Supply 60-100W	SLPWRPTX100L	SLPWRPTX100L	2.1	43
Switching Power Supply 60-100W	PSSW281210	PSSW281210	2.2	53
External Remote Card vers 1.3	SLTELEM013	SLTELEM013	2.0	57
External Remote Card vers 2.0	SLTELEM002	SLTELEM002	2.0	59
60-100W Power Amp connector	SLCNPPTX100L	SLCNPPTX100L	2.0	63
60-100W RF Power amplifier	SLREPTX100LC	SLREPTX100LC	3.1	68
Digital Audio Input	SLPTAUSBNC05	SLPTAUSBNC05	3.1	70
Audio Input Selector	RXAES	RXAES	2.0	72
Digital Audio Input TRDSP	TRDSP	TRDSP	2.0	75
Optional 24Vsupply board	SLBATT24-001	SLBATT24-001	2.1	76

Document History

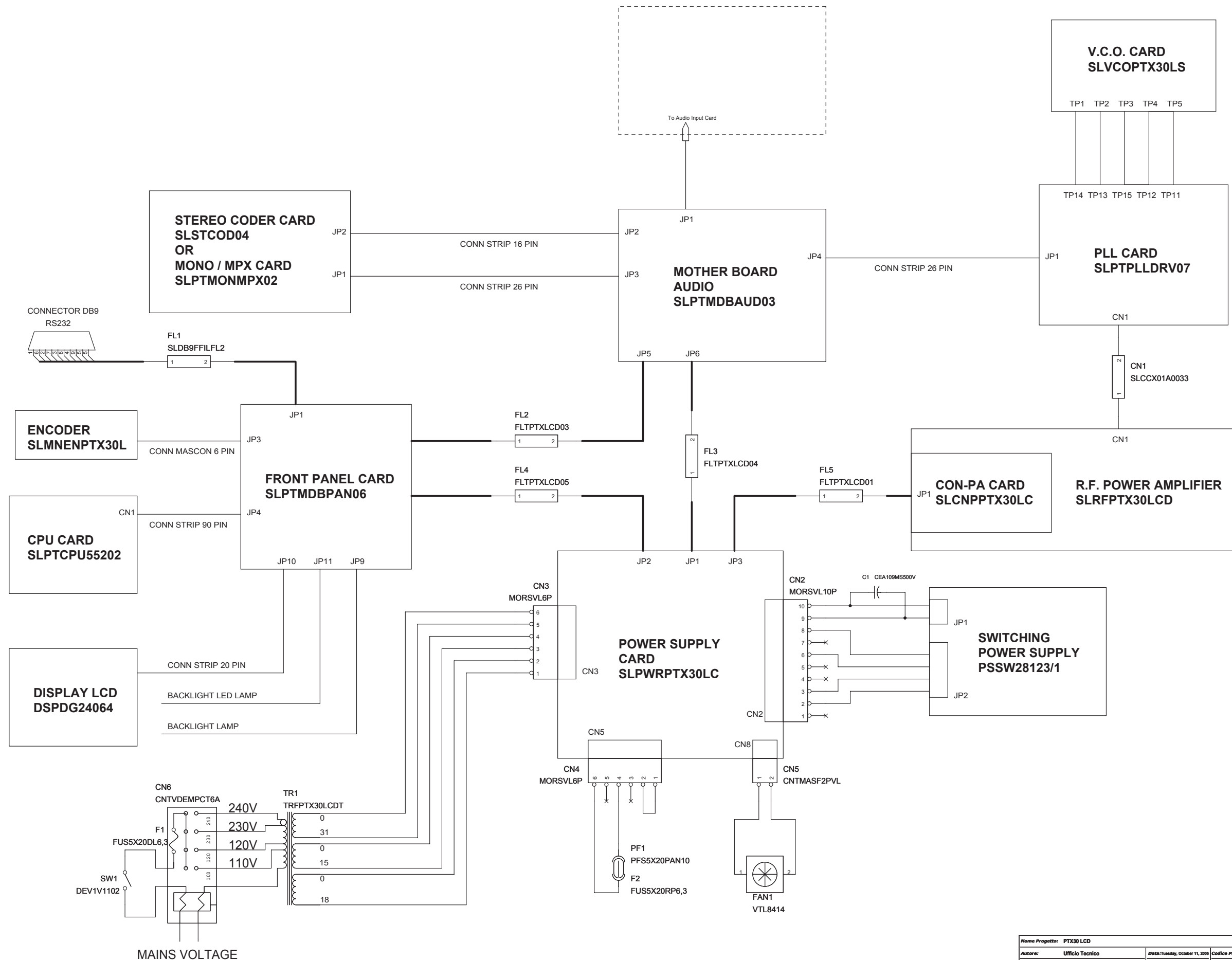
Date	Version	Reason	Editor
11/10/05	4.0	16bit & 8bit version in A3 Format	J.H. Berti



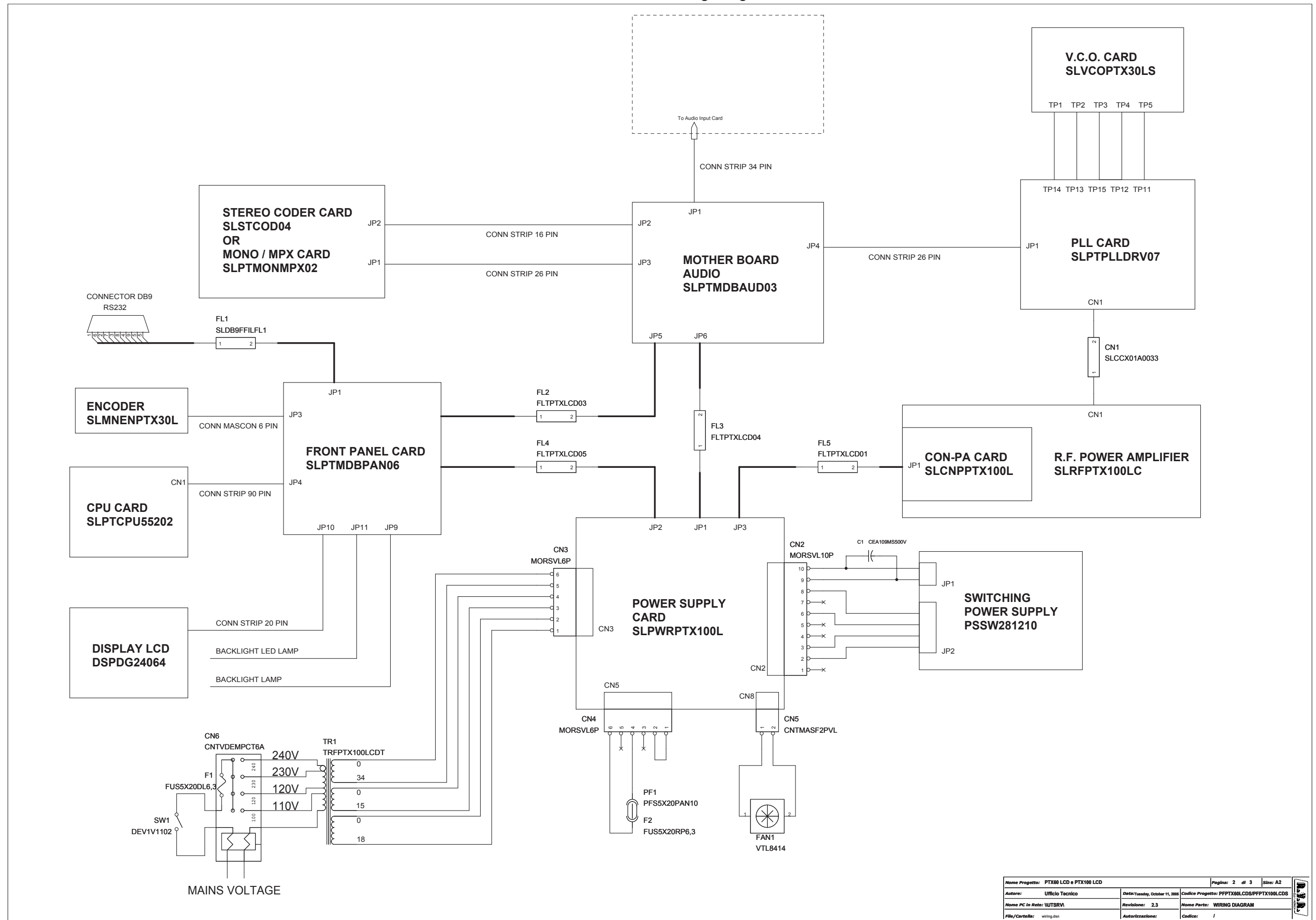


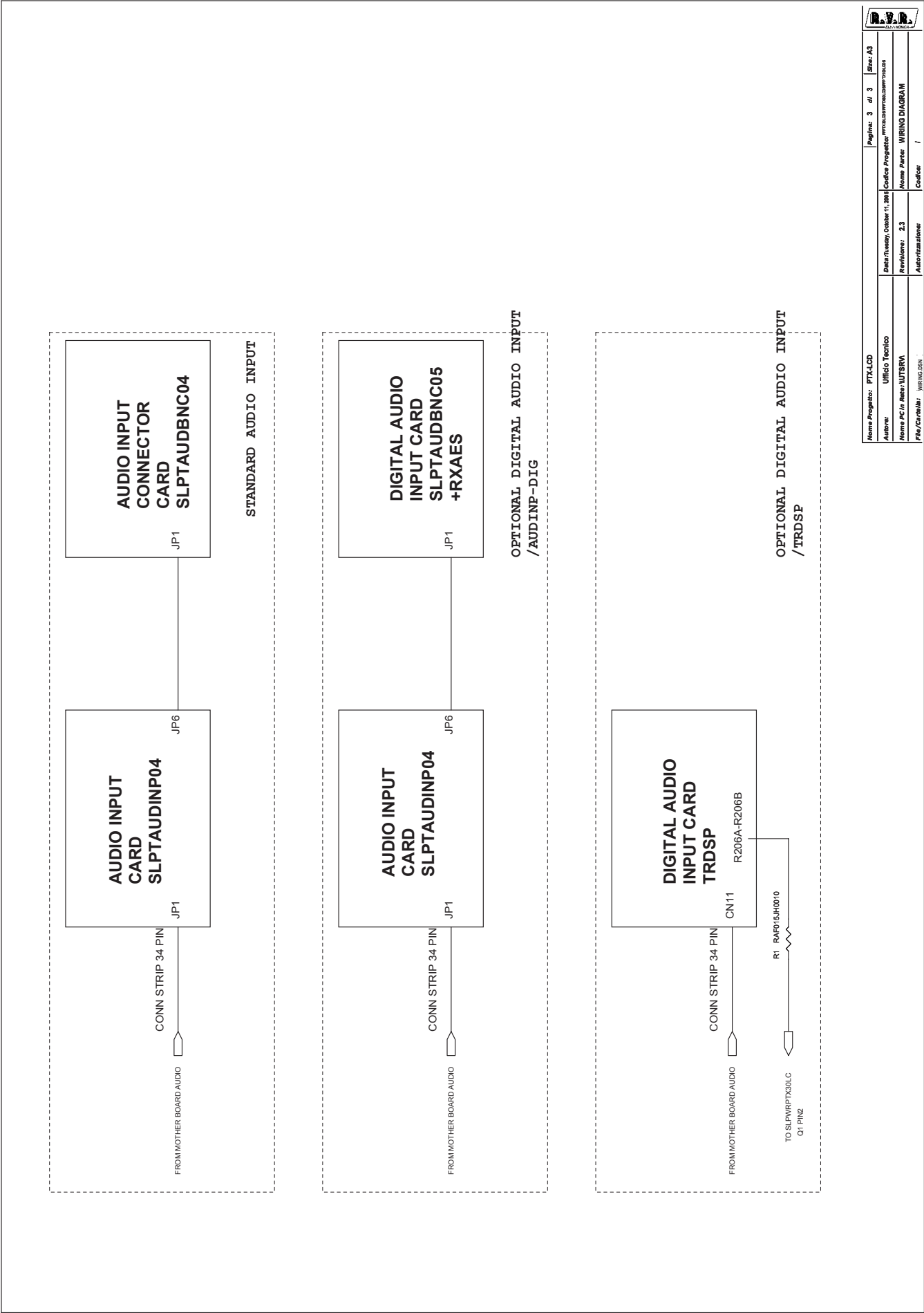


WIRING DIAGRAM - Bill Of Materials				
Item	Quan-tity	Reference	Part	
1	1	C1	CEA109MS500V	
2	1	CN1	SLCCX01A0033	
3	1	CN2	MORSVL10P	
4	2	CN4,CN3	MORSVL6P	
5	1	CN5	CNTMASF2PVL	
6	1	CN6	CNTVDEMPCT6A	
7	1	FAN1	VTL8414	
8	1	FL1	SLDB9FFILFL1	
9	1	FL2	FLTPTXLCD03	
10	1	FL3	FLTPTXLCD04	
11	1	FL4	FLTPTXLCD05	
12	1	FL5	FLTPTXLCD01	
13	1	F1	FUS5X20DL6,3	
14	1	F2	FUS5X20RP6,3	
15	1	PF1	PFS5X20PAN10	
16	1	SW1	DEV1V1102	
17	1	TR1	TRFPTX30LCDT	
18	1	R1	RAF015JH0010	(only with TRDSP option)



Nome Progetto: PTX30 LCD	Pagina: 1 di 3	Size: A2
Autore: Ufficio Tecnico	Data: Tuesday, October 11, 2005	Codice Progetto: PFPTX30LCDS
Nome PC in Rete: WUTSRV	Revisione: 2.3	Nome Parte: WIRING DIAGRAM
File/Cartella: wiring.dsn	Autore/Revisione:	Codice: /

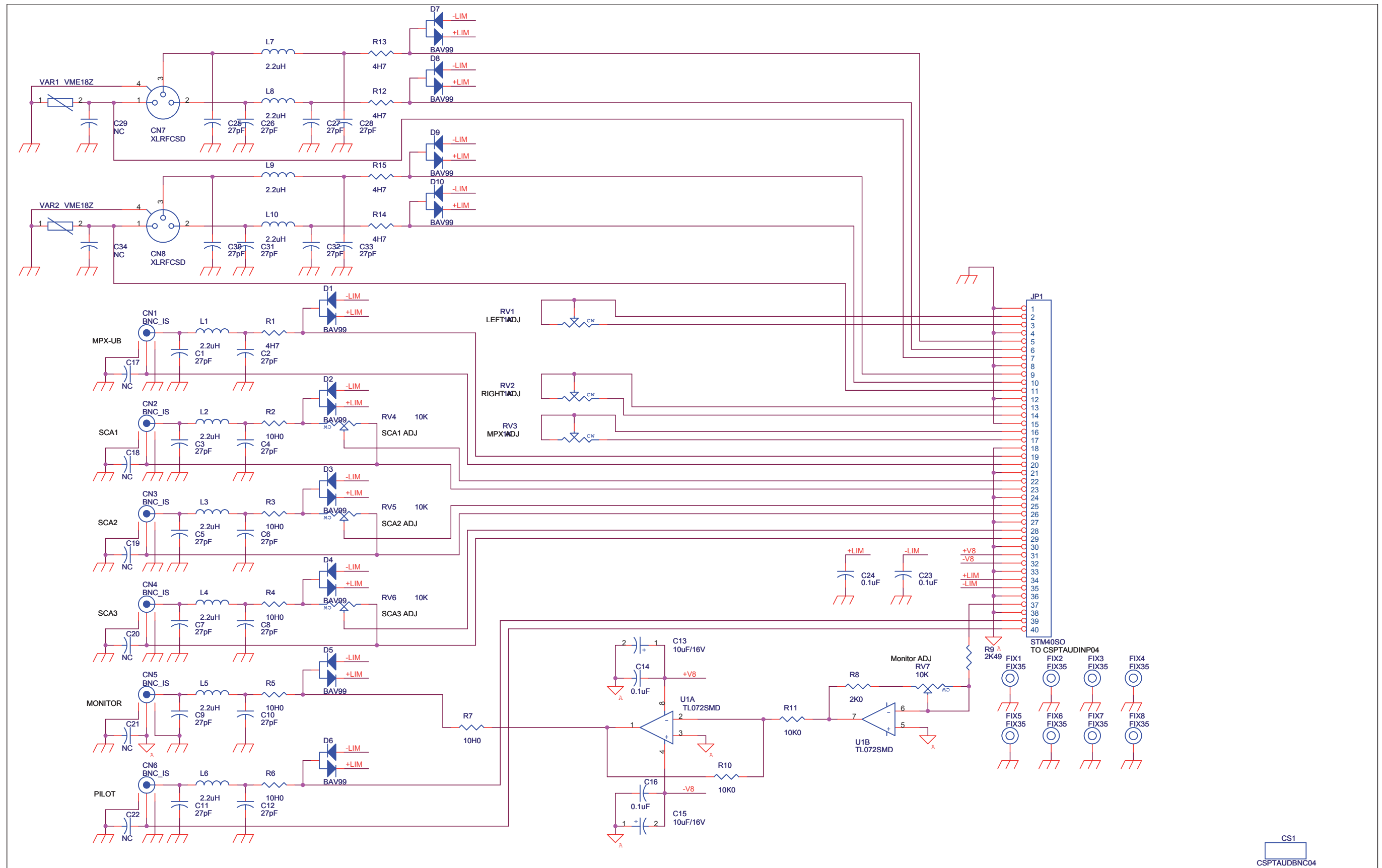




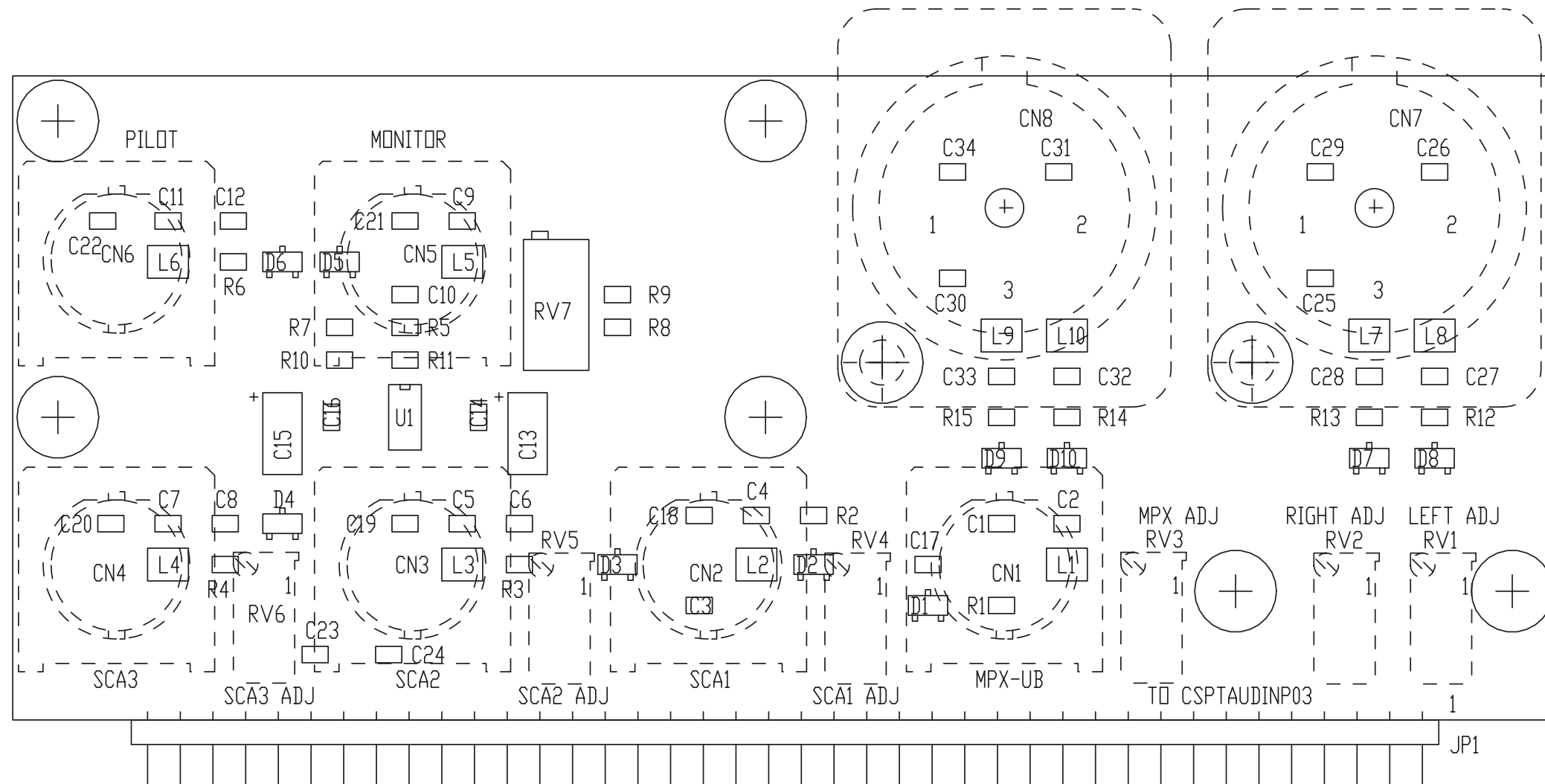
Nome Progetto: PTX-LCD	Page: 3 di 3	Size: A3
Autore: Ufficio Tecnico	Data: 11/10/05	Codice Progetto: 00000000000000000000
Nome P.C. in Rete: TUTERSA	Revisione: 2.3	Nome File: WIRING DIAGRAM
File/Caricabli: WIRING DIA	Autore/Revisione:	Codice:

WIRING DIAGRAM - Bill Of Materials

Item	Quantity	Reference	Part	
1	1	C1	CEA109MS500V	
2	1	CN1	SLCCX01A0033	
3	1	CN2	MORSVL10P	
4	2	CN4,CN3	MORSVL6P	
5	1	CN5	CNTMASF2PVL	
6	1	CN6	CNTVDEMPCT6A	
7	1	FAN1	VTL8414	
8	1	FL1	SLDB9FFILFL1	
9	1	FL2	FLTPTXLCD03	
10	1	FL3	FLTPTXLCD04	
11	1	FL4	FLTPTXLCD05	
12	1	FL5	FLTPTXLCD01	
13	1	F1	FUS5X20DL6,3	
14	1	F2	FUS5X20RP6,3	
15	1	PF1	PFS5X20PAN10	
16	1	SW1	DEV1V1102	
17	1	TR1	TRFPTX30LCDT	
18	1	R1	RAF015JH0010	(only with TRDSP option)



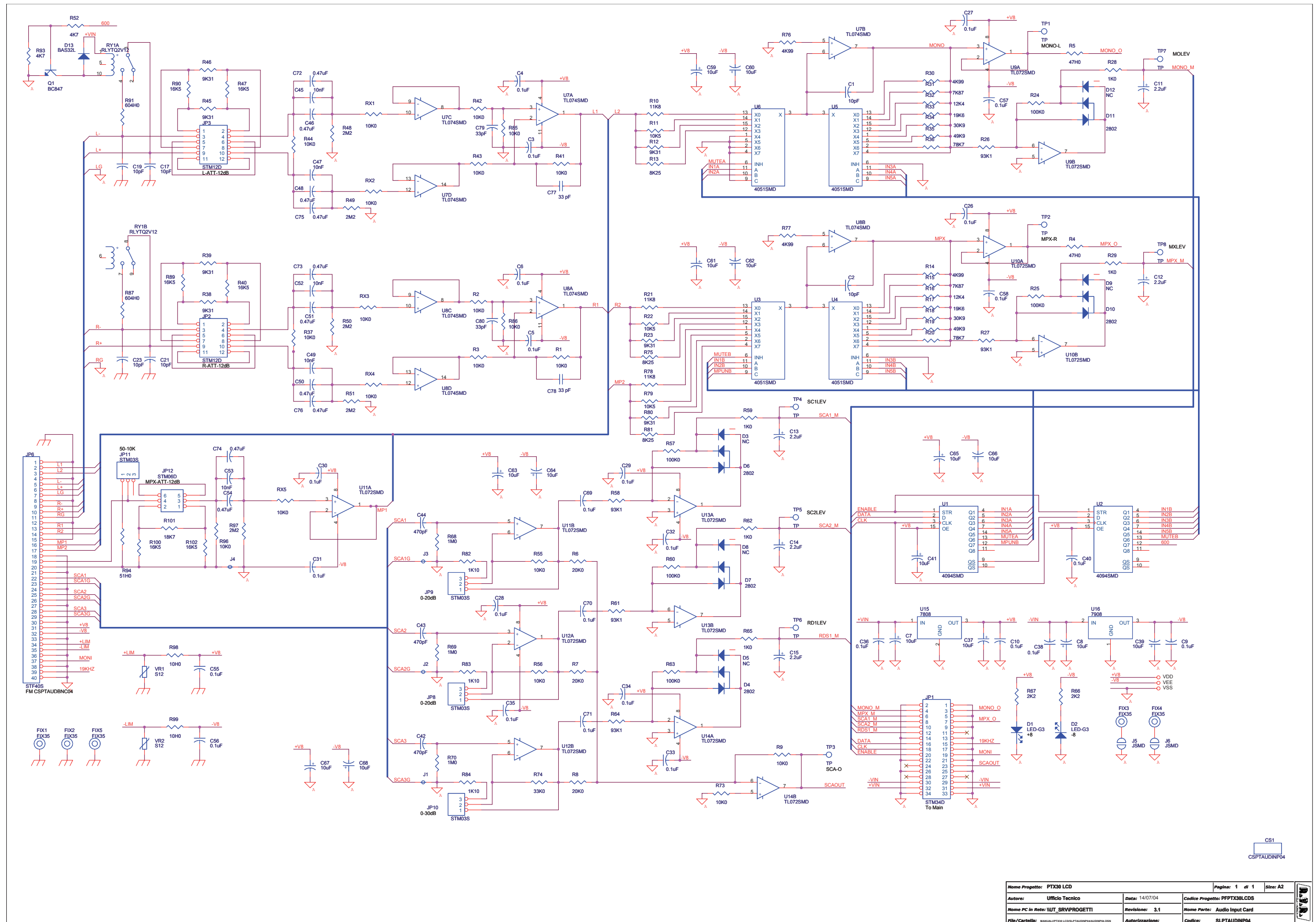
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Autore: Ufficio Tecnico	Data: 18/06/03	Codice Progetto: PFPTX30LCDS	
Nome PC in Rete: \\\UT_SRV\PROGETTI	Revisione: 2.1	Nome Parte: BNC Connectors Card	
File/Cartella: MANUALPTX30 LCD\SLPTAUDBNC04\BNC04.DSN	Autorizzazione:	Codice: SLPTAUDBNC04	

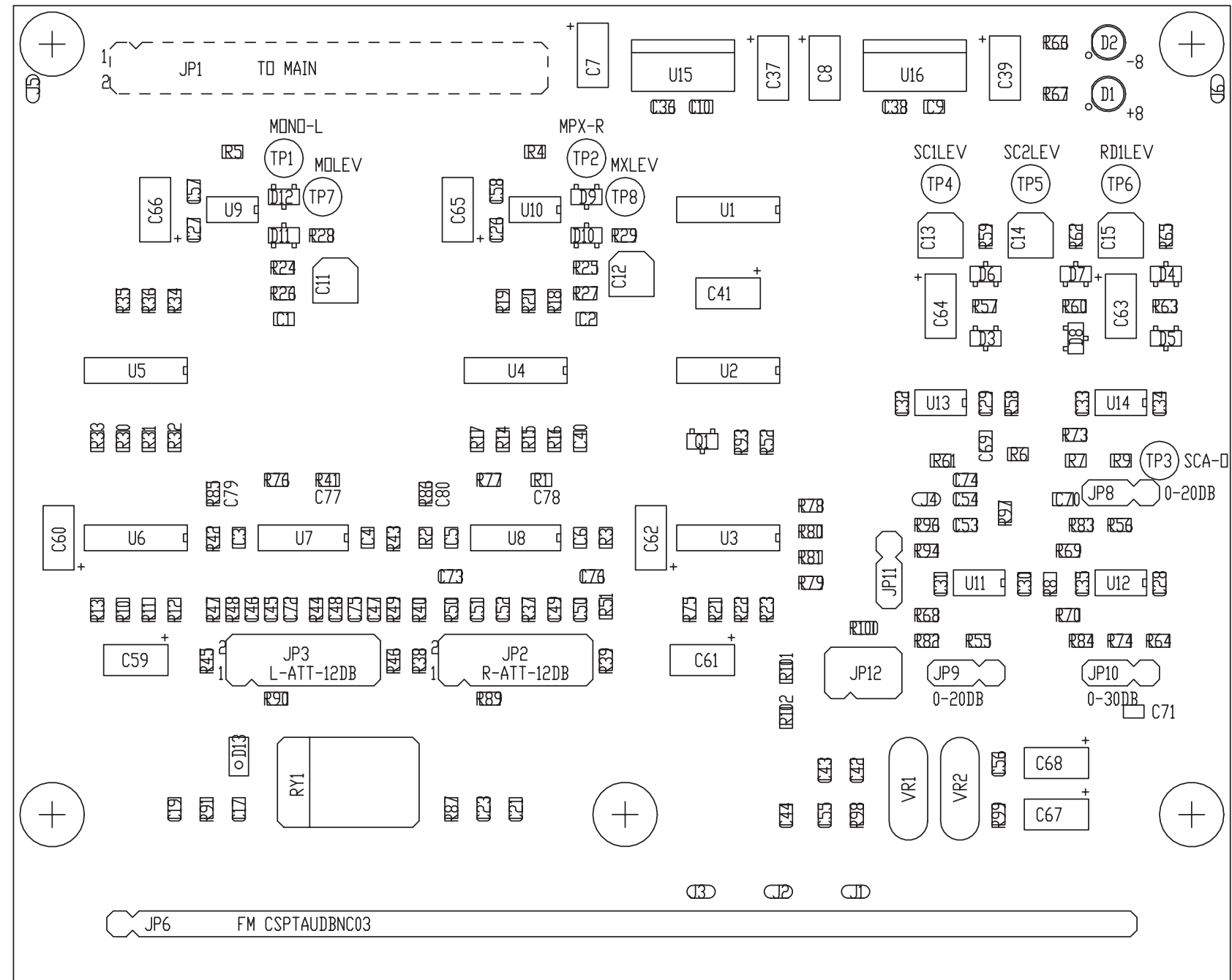


Nome Progetto: PTX30 LCD		Pagina: 1 di 1	Size: A3
Autore: Ufficio Tecnico	Data: 18/06/03	Codice Progetto: PFPTX30LCDS	
Nome PC in Rete: \\UT_SRV\PROGETTI	Revisione: 2.0	Nome Parte: BNC Connectors Card	
File/Cartella: MANUAL\PTX30 LCD\SLPTAUDBNC04\AUDBNC04.DWG	Autorizzazione:	Codice: SLPTAUDBNC04	
Scala: /	Materiale: /	Trattamento: /	Profilo: /

BNC Connectors Card Revised: Tuesday, September 06, 2005
SLPTAUSBNC04 Revision: 2.1
PTX30 LCD
PFPTX30LCDS
Ufficio Tecnico

Item	Quantity	Reference	Part	Description	Code
1	6	CN1, CN2, CN3, CN4, CN5, CN6	BNC_IS	Connettore BNC metallico	CNTBNCFCSPA
2	2	CN7, CN8	XLRFCSD	Connettore XLR femm. cs	CNTXLRFCSP
3	1	CS1	CSPTAUSBNC04	Circuito stampato	CSPTAUSBNC04
4	20	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C25, C26, C27, C28, C30, C31, C32, C33	27pF	Cond. SMD 0805	CCC085270JCC
5	2	C13, C15	10uF/16V	Cond. Elett. SMD d. 4mm	CET106C160SM
6	4	C14, C16, C23, C24	0.1uF	Cond. SMD 0805	CCC085104KXC
7	8	C17, C18, C19, C20, C21, C22, C29, C34	NC	Cond. SMD 0805	
8	10	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10	BAV99	Doppio Diodo SMD SOT23	DISBAV99
9	8	FIX1, FIX2, FIX3, FIX4, FIX5, FIX6, FIX7, FIX8	FIX35	Foro fissaggio 3.5mm	
10	1	JP1	STM40SO	Strip maschio 40 pin 90 gradi	CNTSTM40SAL
11	10	L1, L2, L3, L4, L5, L6, L7, L8, L9, L10	2.2uH	Induttanza SMD 3225 (1210)	IMP2U2S120
12	3	RV1, RV2, RV3	1K	Trimmer Rg V 3296W	RVT3296WK001
13	3	RV4, RV5, RV6	10K	Trimmer Rg V 3296W	RVT3296WK010
14	1	RV7	10K	Trimmer Rg H 3296X	RVT3296XK010
15	5	R1, R12, R13, R14, R15	4H7	Res. SMD 0805 1%	RCH085F004H7
16	6	R2, R3, R4, R5, R6, R7	10H0	Res. SMD 0805	RCH085F0010H
17	1	R8	2K0	Res. SMD 0805	RCH085F0002K
18	1	R9	2K49	Res. SMD 0805	RCH085F02K49
19	2	R10, R11	10K0	Res. SMD 0805 1%	RCH085F0010K
20	1	U1	TL072SMD	Dual Op. SMD SO8	CILTL072SMD
21	2	VAR1, VAR2	VME18Z	ESD SMD protector	MOV018V085

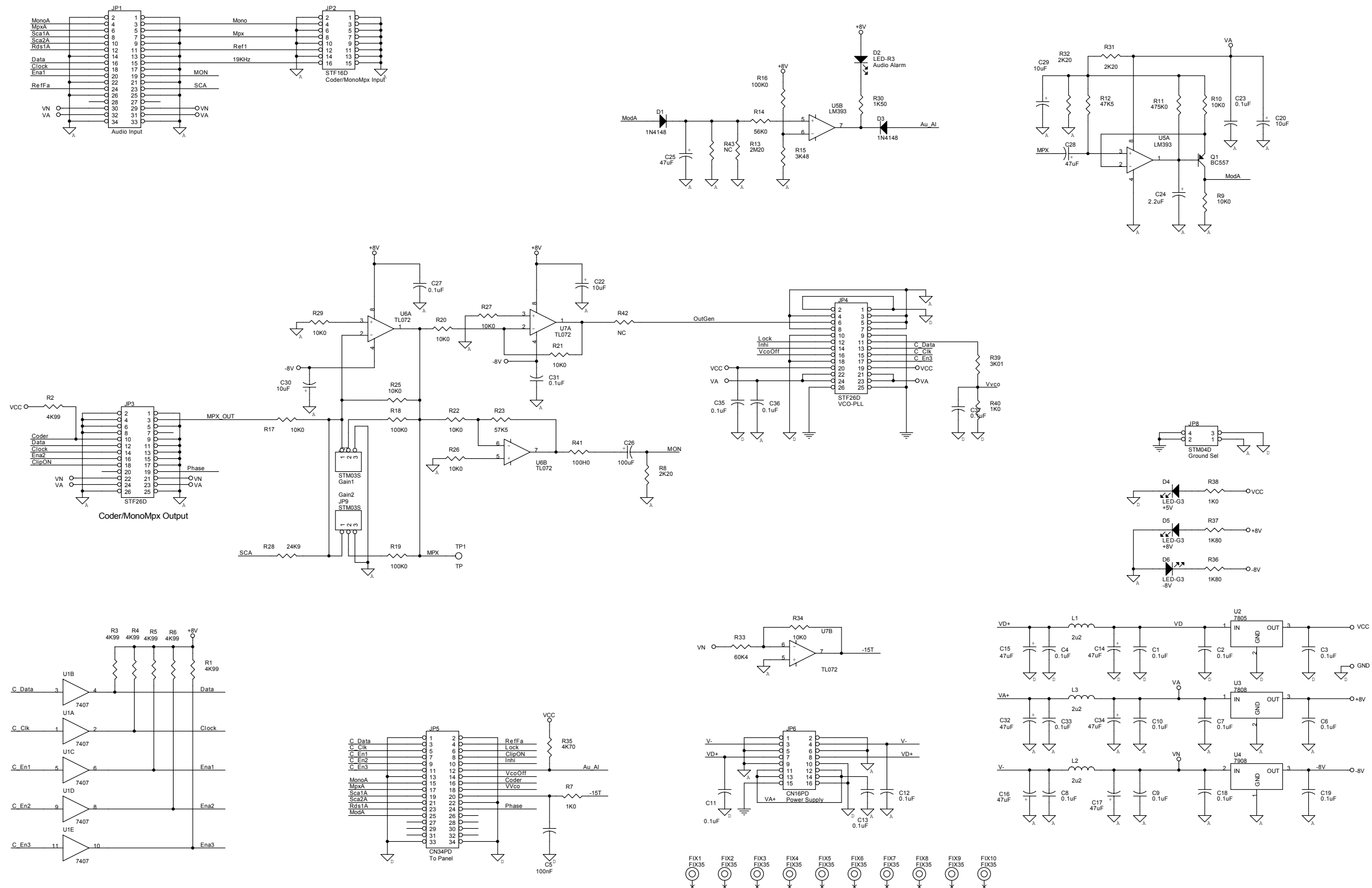




Nome Progetto: PTX30 LCD		Pagina: 1 di 1	Size: A3
Autore: Ufficio Tecnico	Data: 18/06/03	Codice Progetto: PFPTX30LCDS	
Nome PC in Rete: \\UT_SRV\PROGETTI	Revisione: 2.0	Nome Parte: Audio Input Card	
File/Cartella: Manuali\PTX30 LCD\SLPTAUDINP04\lyaudinp04.dwg	Autorizzazione:	Codice: SLPTAUDINP04	
Scala: 1:1	Materiale: /	Trattamento: /	Profilo: /

Audio Input Card Revised: Tuesday, September 06, 2005
SLPTAUDINP04 Revision: 3.1
PTX30 LCD
PFPTX30LCDS
Ufficio Tecnico

Item	Quantity	Reference	Part	Description	Code
1	1	CS1	CSPTAUDINP04	Circuito stampato	CSPTAUDINP04
2	6	C1, C2, C17, C19, C21, C23	10pF	Cond. SMD 0805	CCC085100JCC
3	26	C3, C4, C5, C6, C9, C10, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C38, C40, C55, C56, C57, C58, C69, C70, C71	0.1uF	Cond. SMD 0805	CCC085104KXC
4	15	C7, C8, C37, C39, C41, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68	10uF/16V	Condensatore SMD tant. size C	CET106C160SM
5	5	C11, C12, C13, C14, C15	2.2uF/50V	Cond. Elett. SMD d. 4mm	CES225A500
6	3	C42, C43, C44	470pF	Cond. SMD 0805	CCC085471JCC
7	5	C45, C47, C49, C52, C53	10nF	Cond. SMD 0805	CCC085103KXC
8	10	C46, C48, C50, C51, C54, C72, C73, C74, C75, C76	0.47uF	Cond. SMD 0805	CCC085474KXC
9	4	C77, C78, C79, C80	33pF	Cond. SMD 0805	CCC085330JCC
10					
11	2	D1, D2	LED-G3	LED dia. 3mm	LEDV03
12	5	D3, D5, D8, D9, D12	NC	Diodo SMD SOT23	
13	5	D4, D6, D7, D10, D11	2802	Doppio Diodo SMD SOT23	DISHSMS2802
14	1	D13	BAS32L	MINIMELF SMD Diode	DISBAS32MINI
15	5	FIX1, FIX2, FIX3, FIX4, FIX5	FIX35	Foro fissaggio 3.5mm	
16	1	JP1	STM34D		
17	2	JP2, JP3	STM12D		
18	1	JP6	NC		
19	4	JP8, JP9, JP10, JP11	STM03S	Strip maschio 3 pin	
20	1	JP12	STM06D	Strip maschio 3+3 pin	
21	4	J1, J2, J3, J4	GNDCC	Non e' un componente	
22	2	J5, J6	JSMD	Pad SMD a saldare	
23	1	Q1	BC847	Trans. NPN SOT23	TRNBC847
24	5	RX1, RX2, RX3, RX4, RX5	10K0	Res. SMD 0805 1%	RCH085F0010K
25	1	RY1	RLYTQ2V12	Rele' TQ2	
26	15	R1, R2, R3, R9, R37, R41, R42, R43, R44, R55, R56, R73, R85, R86, R96	10K0	Res. SMD 0805	RCH085F0010K
27	2	R4, R5	47H0	Res. SMD 0805	RCH085F0047H
28	3	R6, R7, R8	20K0	Res. SMD 0805	RCH085F0020K
29	3	R10, R21, R78	11K8	Res. SMD 0805	RCH085F011K8
30	3	R11, R22, R79	10K5	Res. SMD 0805	RCH085F010K5
31	7	R12, R23, R38, R39, R45, R46, R80	9K31	Res. SMD 0805	RCH085F09K31
32	3	R13, R75, R81	8K25	Res. SMD 0805	RCH085F08K25
33	4	R14, R30, R76, R77	4K99	Res. SMD 0805	RCH085F04K99
34	2	R15, R31	7K87	Res. SMD 0805	RCH085F07K87
35	2	R16, R32	12K4	Res. SMD 0805	RCH085F012K4
36	2	R17, R33	19K6	Res. SMD 0805	RCH085F019K6
37	2	R18, R34	30K9	Res. SMD 0805	RCH085F030K9
38	2	R19, R35	49K9	Res. SMD 0805	RCH085F049K9
39	2	R20, R36	78K7	Res. SMD 0805	RCH085F078K7
40	5	R24, R25, R57, R60, R63	100K0	Res. SMD 0805	RCH085F0100K
41	2	R26, R27	93K1	Res. SMD 0805	RCH085F093K1
42	5	R28, R29, R59, R62, R65	1K0	Res. SMD 0805	RCH085F0001K
43	6	R40, R47, R89, R90, R100, R102	16K5	Res. SMD 0805	RCH085F016K5
44	5	R48, R49, R50, R51, R97	2M2	Res. SMD 0805	RCH085F002M2
45	2	R52, R93	4K7	Res. SMD 0805	RCH085F004K7
46	3	R58, R61, R64	93K1	Res. SMD 0805	RCH085F093K1
47	2	R66, R67	2K2	Res. SMD 0805	RCH085F002K2
48	3	R68, R69, R70	1M0	Res. SMD 0805	RCH085F0001M
49	1	R74	33K0	Res. SMD 0805	RCH085F0033K
50	3	R82, R83, R84	1K10	Res. SMD 0805	RCH085F001K1
51	2	R87, R91	604H0	Res. SMD 0805	RCH085F0604H
52	1	R94	51H0	Res. SMD 0805	RCH085F0051H
53	2	R98, R99	10H0	Res. SMD 0805	RCH085F0010H
54	1	R101	18K7	Res. SMD 0805	RCH085F018K7
55	8	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8	NC	Test point	
56	2	U1, U2	4094SMD	Shift Reg. SMD SO16	CID4049SMD
57	4	U3, U4, U5, U6	4051SMD	Analog Switch SMD SO16	CID4051SMD
58	2	U7, U8	TL074SMD	Quad Op. SMD SO14	CILTL074SMD
59	6	U9, U10, U11, U12, U13, U14	TL072SMD	Dual Op. SMD SO8	CILTL072SMD
60	1	U15	7808	Stabilizzatore TO220	CIL7808P
61	1	U16	7908	Stabilizzatore TO220	CIL7908P
62	2	VR1, VR2	S12	Varistor	MOV012V07



Nome Progetto: PTX30 LCD		Pagina: 1 di 1		Size: A2
Autore: Ufficio Tecnico	Data: 18/06/93	Codice Progetto: PFPTX30LCDS		
Nome PC in Rete: \IUT_SRV\PROGETTI	Revisione: 2.0	Nome Parte: Audio Motherboard		
File/Cartella: MANUAL\PTX30 LCD\PTX30AUDIO\SLPTMBAUDIO.DSN	Autorizzazione:	Codice: SLPTMBAUDIO		

Audio Motherboard Revised: 14/07/04

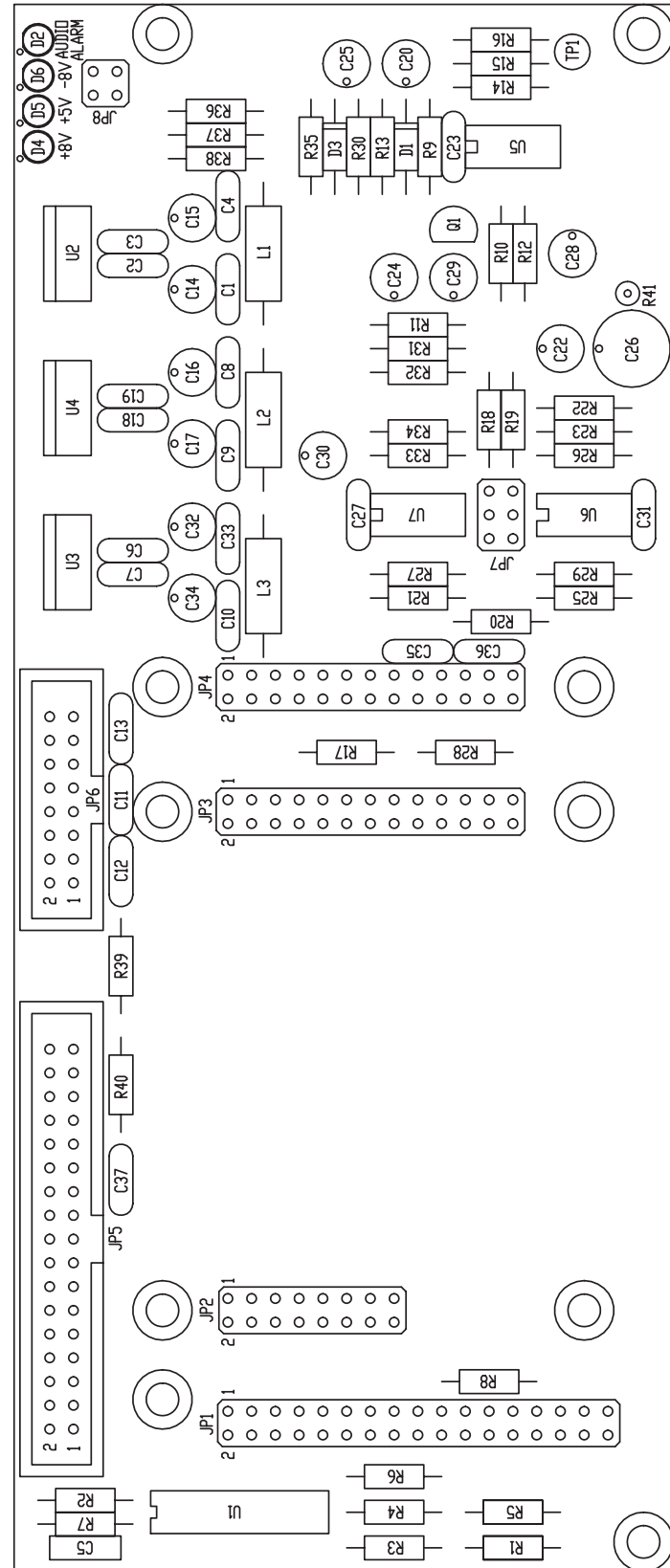
SLPTMDBAUD03 Revision: 3.0

PTX30 LCD

PFPTX30LCDS

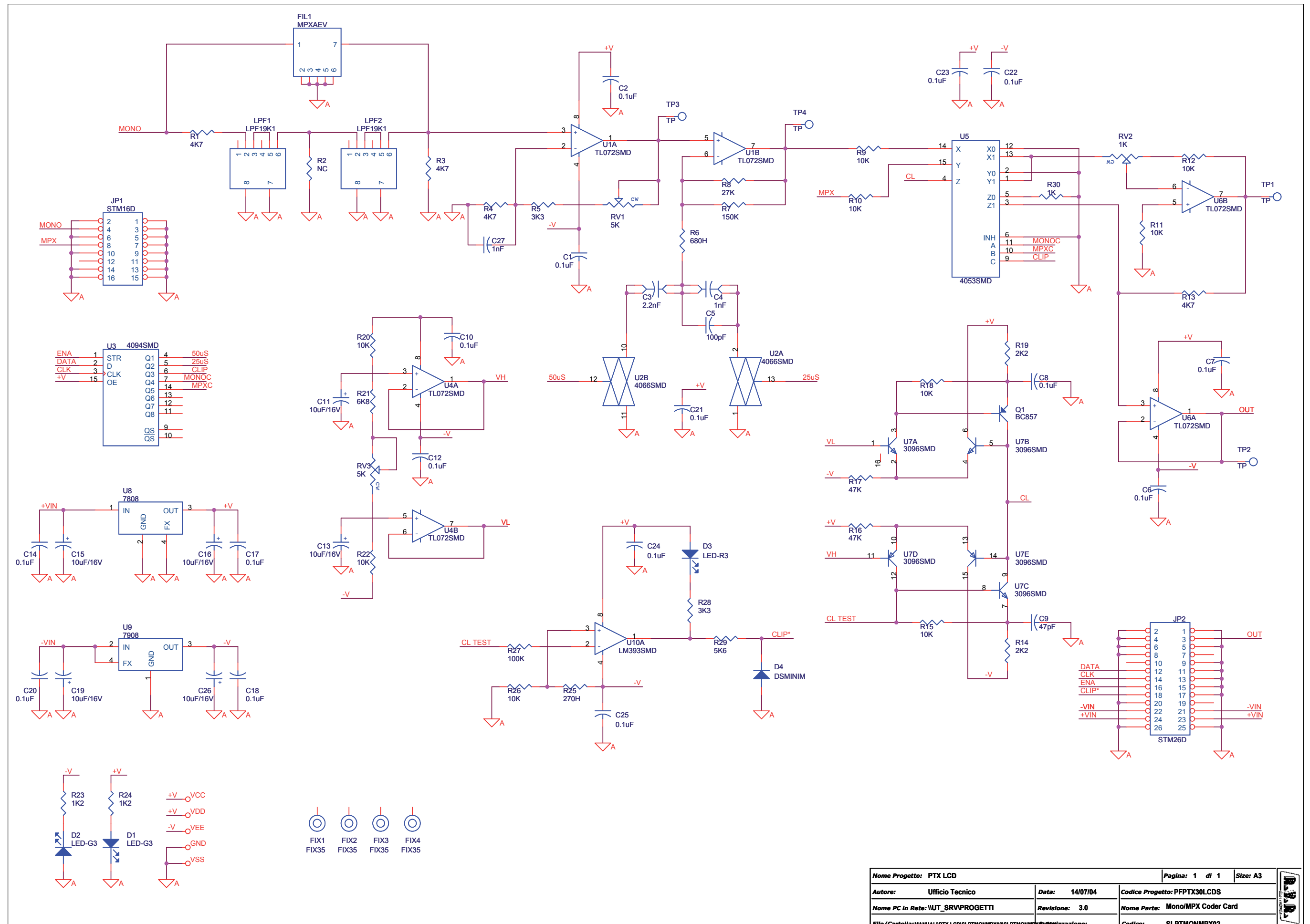
Ufficio Tecnico

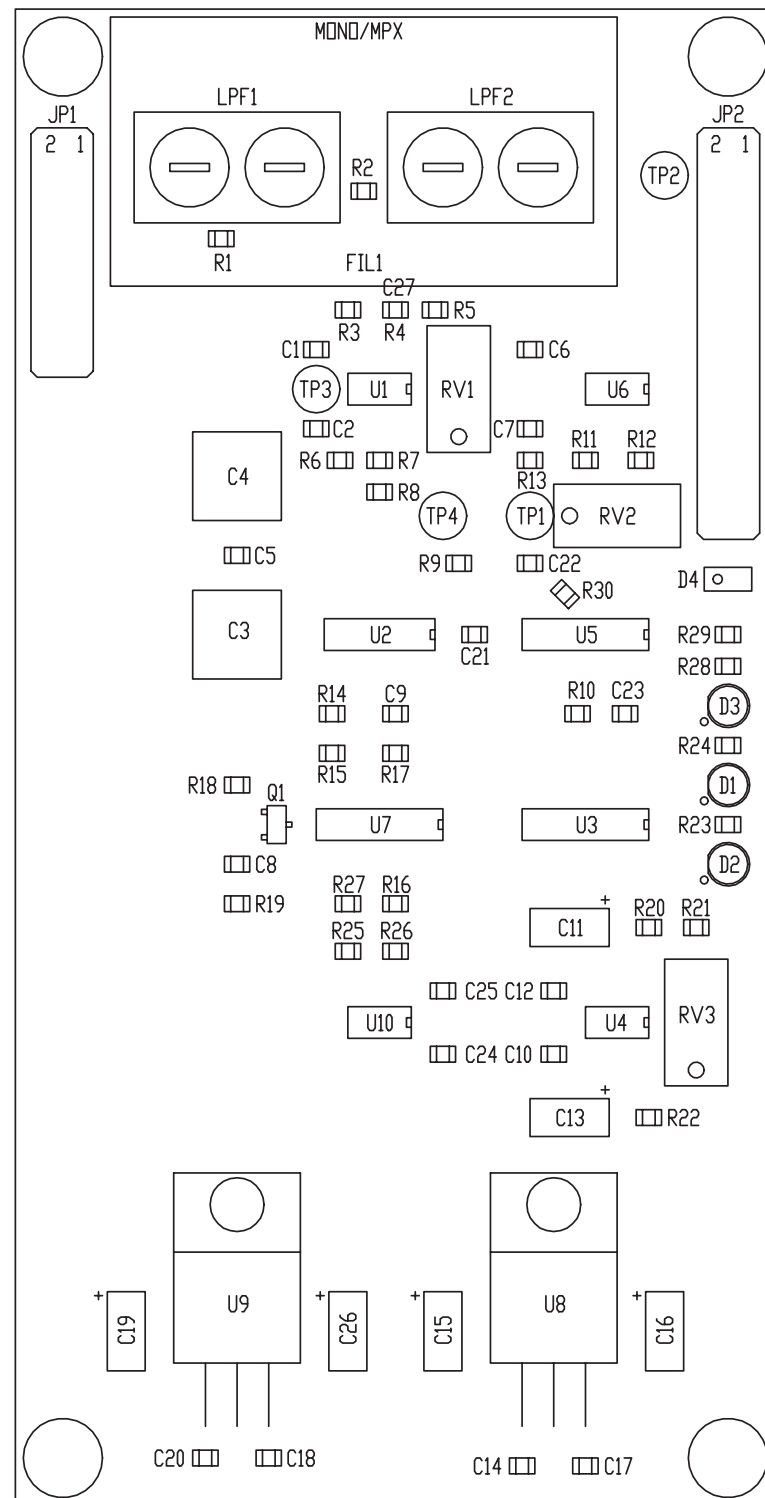
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2	1	C5	100nF	Cond. Poliestere p 5mm
3	8	C14, C15, C16, C17, C25, C28, C32, C34	47uF/16V	Cond. Elettr. Vert.
4	4	C20, C22, C29, C30	10uF/35V	Cond. Elettr. Vert.
5	1	C24	2.2uF/16V	Cond. Elettr. Vert.
6	1	C26	100uF/25V	Cond. Elettr. Vert.
7	2	D1, D3	1N4148	Diodo in vetro DO35
8	1	D2	LED-R3	LED dia. 3mm
9	3	D4, D5, D6	LED-G3	LED dia. 3mm
10	10	FIX1, FIX2, FIX3, FIX4, FIX5, FIX6, FIX35, FIX7, FIX8, FIX9, FIX10		Foro fissaggio 3.5mm
11	1	JP1	Audio Input	
12	1	JP2	STF16D	Strip femmina 8+8 pin
13	2	JP3, JP4	STF26D	Strip femmina 13+13 pin
14	1	JP5	CN34PD	Connettore 34 poli Flat cs
15	1	JP6	CN16PD	Connettore 16 poli Flat cs
16	1	JP7	STM06DO	Strip maschio 3+3 pin
17	1	JP8	STM04D	Strip maschio 2+2 pin
18	3	L1, L2, L3	2u2	Induttanza cilindrica
19	1	Q1	BC557	Trans. PNP TO92
20	6	R1, R2, R3, R4, R5, R6	4K99	Res. 1/4W 1%
21	1	R7	10K	Res. 1/4W 1%
22	3	R8, R31, R32	2K20	Res. 1/4W 1%
23	11	R9, R10, R17, R20, R21, R22, R25, 10K0, R26, R27, R29, R34		Res. 1/4W 1%
24	1	R11	475K0	Res. 1/4W 1%
25	1	R12	47K5	Res. 1/4W 1%
26	1	R13	2M20	Res. 1/4W 1%
27	1	R14	56K0	Res. 1/4W 1%
28	1	R15	3K48	Res. 1/4W 1%
29	3	R16, R18, R19	100K0	Res. 1/4W 1%
30	1	R23	5K76	Res. 1/4W 1%
31	1	R28	24K9	Res. 1/4W 1%
32	1	R30	1K50	Res. 1/4W 1%
33	1	R33	60K4	Res. 1/4W 1%
34	1	R35	4K70	Res. 1/4W 1%
35	2	R36, R37	1K80	Res. 1/4W 1%



Nome Progetto	PTX30 LCD	Autore	Ufficio Tecnico	Data	18/06/03	Codice Progetto	PFPTX30LCDS	Size	A4
Nome PC in Rete	\\UT_SRV\PROGETTI	Revisione	2.0	Nome Parte	AUDIO MOTHERBOARD	Codice	SLPTMDBAUD03	Profilo	/
File/Carrello/Manual/PC/SLPTMDBAUD03\slptmboard.dwg		Autore	Ufficio Tecnico	Trattamento	/	Codice	SLPTMDBAUD03		
Scala	/	Materiali	/	Trattamento	/	Codice	SLPTMDBAUD03		

36	2	R38, R40	1K0	Res. 1/4W 1%
37	1	R39	3K01	Res. 1/4W 1%
38	1	R41	100H0	Res. 1/4W 1%
39	2	R42, R43	NC	Res. 1/4W 1%
40	1	TP1	TP	Test point
41	1	U1	7407	
42	1	U2	7805	Stabilizzatore TO220
43	1	U3	7808	Stabilizzatore TO220
44	1	U4	7908	Stabilizzatore TO220
45	1	U5	LM393	
46	2	U6, U7	LF353	





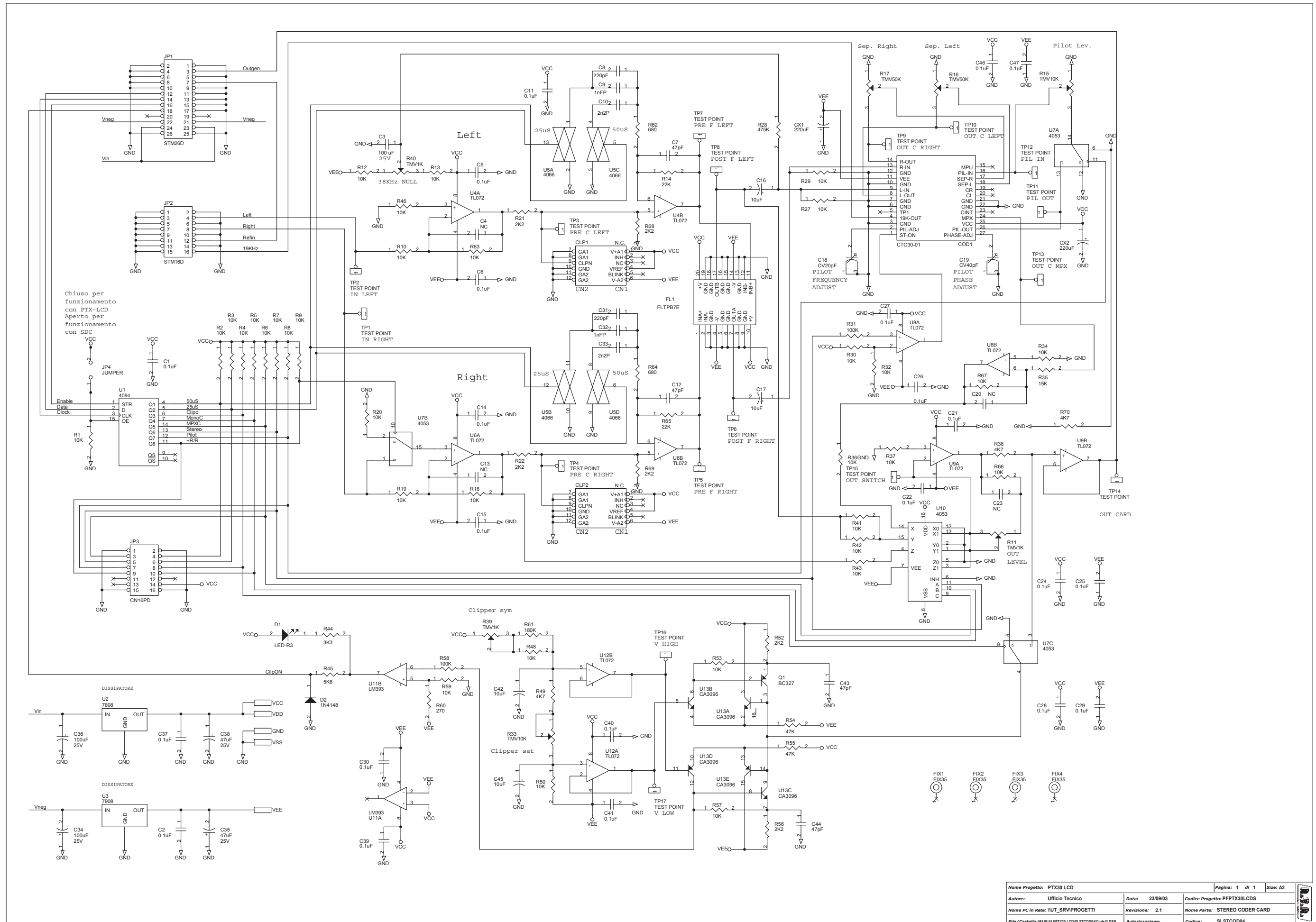
Nome Progettista		PTX30 LCD		Pagina 1 di 1		Size: A4
Autore:	Ufficio Tecnico			Data:	18/06/03	Coilice Progettista: PFTX30LCDS
Nome PC in Rete:	\\UT_SRVV\PROGETTI			Revisione:	2.0	Nome Parte: Mono/MFX. Coder. Card
File/Cartaella:	MANUAL\PTX30_LCD\SLFTHDIMP02\slfthdimp02			Autore:		Coilice: SLFTHDIMP02
Disegno:	Materiali:	/	Trattamento:	/	Profilo:	/

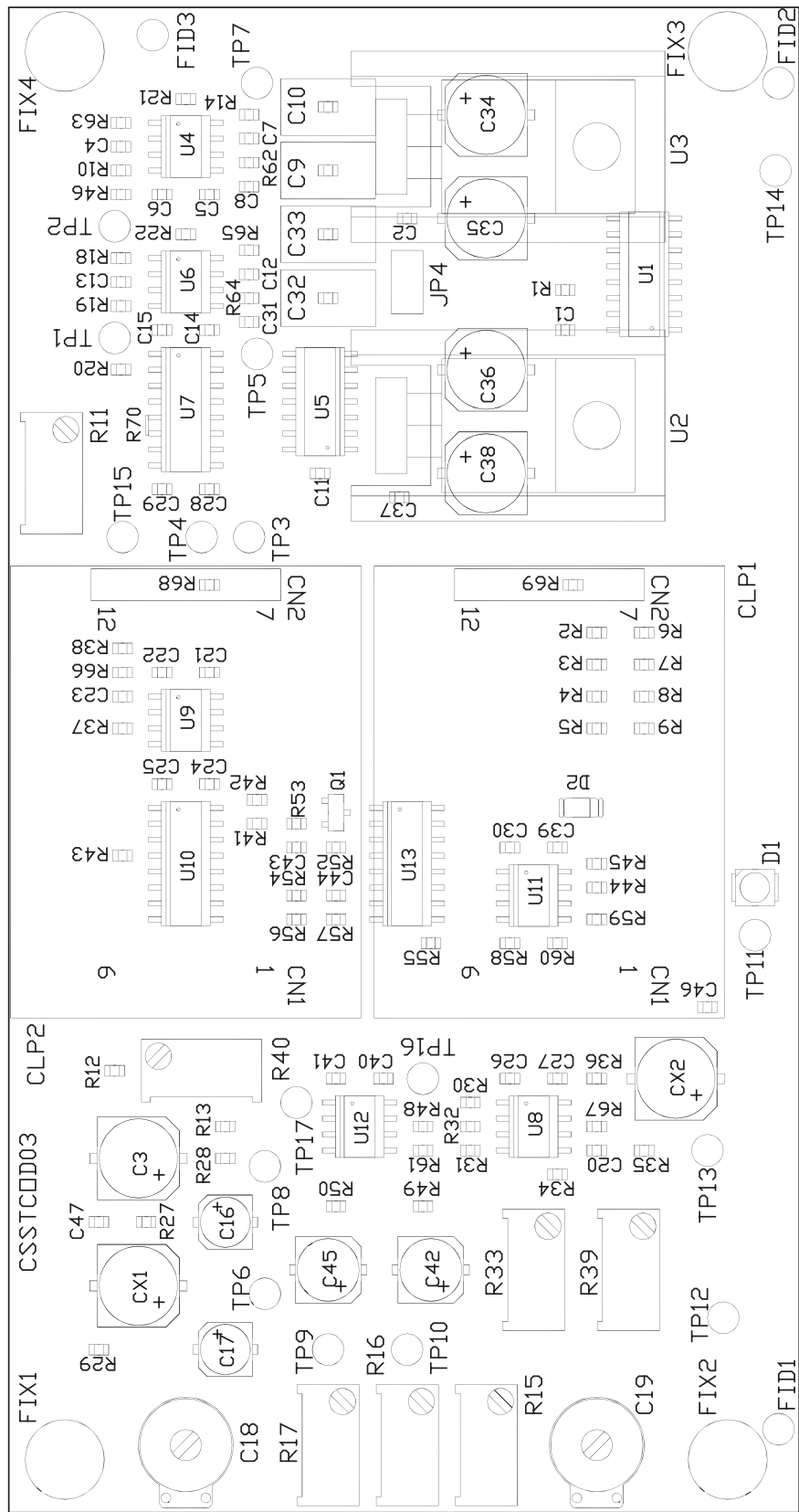
Mono/MPX Coder Card Revised: 14/07/04

SLPTMONMPX02 Revision: 3.0

PTX LCD

Item	Quantity	Reference	Part	Description
1	16	C1, C2, C6, C7, C8, C10, C12, C14, C17, C18, C20, C21, C22, C23, C24, C25	0.1uF	Cond. ceramico 0805
2	1	C3	2.2nF	Cond. ceramico 0805
3	2	C4, C27	1nF	Cond. ceramico 0805
4	1	C5	100pF	Cond. ceramico 0805
5	1	C9	47pF	Cond. ceramico 0805
6	6	C11, C13, C15, C16, C19, C26	10uF/16V	Cond. tantalio SMD
7	2	D1, D2	LED-G3	Led verde d. 3mm
8	1	D3	LED-R3	Led rosso d. 3mm
9	1	D4	DSMINIM	Diodo silicio Minimelf
10	1	FIL1	MPXAEV	Filtro 1938
11	4	FIX1, FIX2, FIX3, FIX4	FIX35	Foro fissaggio 3.5mm
12	1	JP1	STM16D	Strip maschio 8+8 pin
13	1	JP2	STM26D	Strip maschio 13+13 pin
14	2	LPF1, LPF2	LPF19K1	Filtro Toko LPF19K1
15	1	Q1	BC857	Transistor SMD SOT23
16	2	RV1, RV3	5K	Trimmer 3296
17	1	RV2	1K	Trimmer 3296
18	4	R1, R3, R4, R13	4K7	Res. SMD 0805 1%
19	1	R2	NC	Res. SMD 0805 1%
20	2	R5, R28	3K3	Res. SMD 0805 1%
21	1	R6	680H	Res. SMD 0805 1%
22	1	R7	150K	Res. SMD 0805 1%
23	1	R8	27K	Res. SMD 0805 1%
24	9	R9, R10, R11, R12, R15, R18, R20, R22, R26	10K	Res. SMD 0805 1%
25	2	R14, R19	2K2	Res. SMD 0805 1%
26	2	R16, R17	47K	Res. SMD 0805 1%
27	1	R21	6K8	Res. SMD 0805 1%
28	2	R23, R24	1K2	Res. SMD 0805 1%
29	1	R25	270H	Res. SMD 0805 1%
30	1	R27	100K	Res. SMD 0805 1%
31	1	R29	5K6	Res. SMD 0805 1%
32	1	R30	1K	Res. SMD 0805 1%
33	4	TP1, TP2, TP3, TP4	TP	Test point
34	3	U1, U4, U6	TL072SMD	Integrato lin. TL072 SMD
35	1	U2	4066SMD	Integrato dig. 4066 SMD
36	1	U3	4094SMD	Integrato ldig. 4094 SMD
37	1	U5	4053SMD	Integrato dig. 4053 SMD
38	1	U7	3096SMD	Integrato lin. 3096 SMD
39	1	U8	7808	Integrato 7808
40	1	U9	7908	Integrato 7908
41	1	U10	LM393SMD	Integrato lin. LM393 SMD





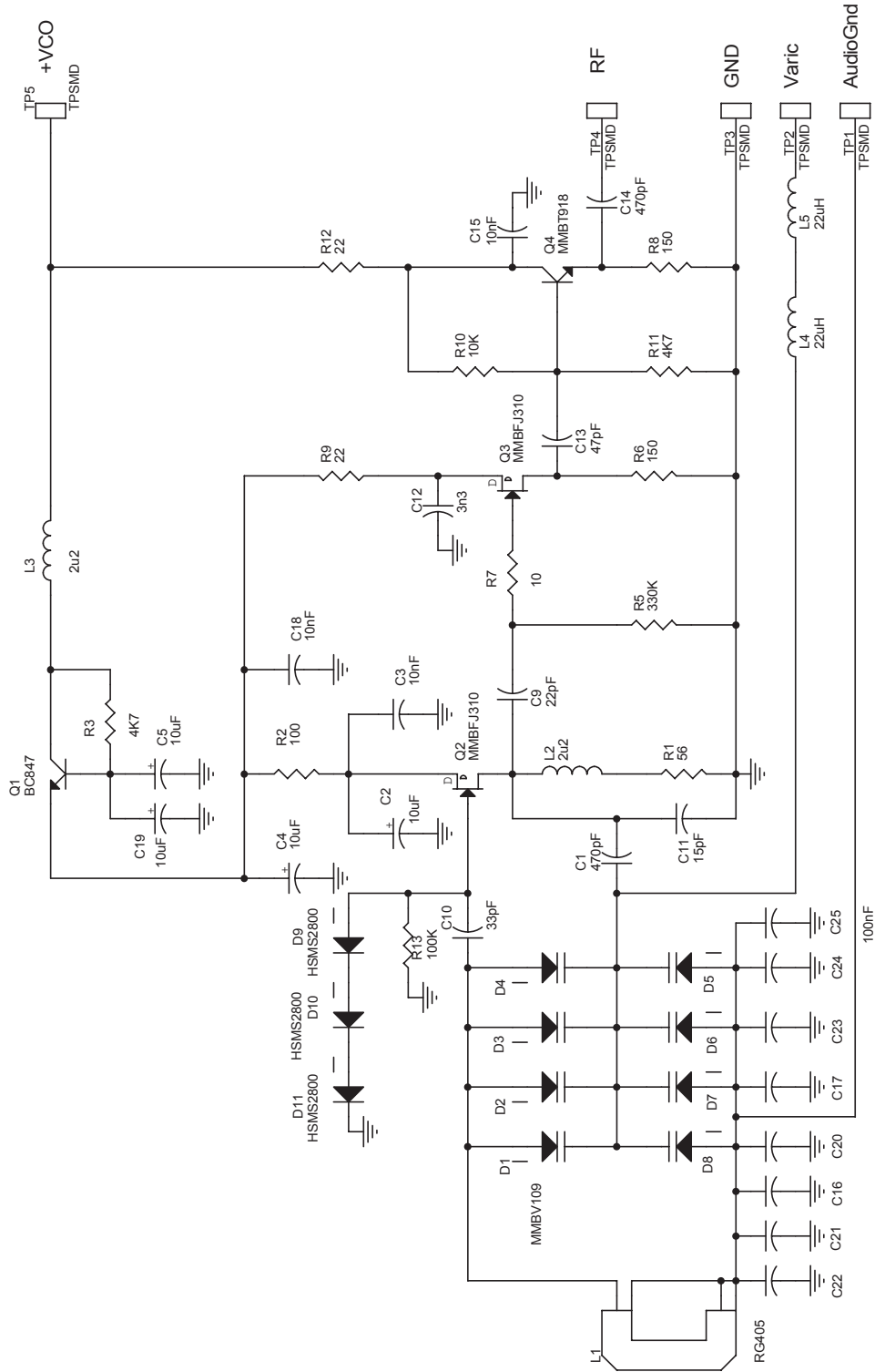
None Progettato		PTX30 LCD	Pagine		1	di	1	Size	A4
Autore		Ufficio Tecnico	Codice Progetto		PFPTX30LCDS		None Parte		STEREO CODER CARD LAYOUT
None PC in Rete		\\UT_SRV\PROGETTI	Data		23/09/03		Revisione		2.1
File/Cartella		MANUALI\PTX LCD\SLSTCOD04\laystcod03.DWG	Autore		SLSTCOD04		Trattamento		/
Scala		/	Materiale		/		Profilo		/

STEREO CODER CARD
SLSTCOD04 Revision: 3.0
PTXLCD
Date: 14/07/04 Rev.: 3.0

Item	Quantity	Reference	Part	Description
1	2	CLP1, CLP2	N.C.	
2	1	COD1	CTC30-01	Coder stereo IRV30CT
3	2	CX1, CX2	220uF 16V	Cond. elettrolitico
4	22	C1, C2, C5, C6, C11, C14, C15, C21, C22, C24, C25, C26, C27, C28, C29, C30, C37, C39, C40, C41, C46, C47	0.1uF	Cond. ceramico 0603/0805
5	3	C3, C34, C36	100uF 16V	Cond. elettrolitico
6	1	C4	NC	
7	4	C7, C12, C43, C44	47pF	Cond. ceramico 0603
8	2	C8, C31	220pF	Cond. ceramico 0805
9	2	C9, C32	1nF	Cond. ceramico 0805
10	2	C10, C33	2n2	Cond. ceramico 0805
11	3	C13, C20, C23	NC	
12	4	C16, C17, C42, C45	10uF 16V	Cond. elettrolitico
13	1	C18	CV20pF	Comp. ceramico dia. 7mm
14	1	C19	CV40pF	Comp. ceramico dia. 7mm
15	2	C35, C38	47uF 16V	Cond. elettrolitico
16	1	D1	LED-R3	LED rosso SMD TLMH3100
17	1	D2	1N4148	Diode al silicio BAS32
18	4	FIX1, FIX2, FIX3, FIX4	FIX35	Foro fissaggio 3.5mm
19	1	FL1	FLTPB7E	Filtro Audio Stereo Positron
20	1	JP1	STM26D	Connettore 26 poli Flat cs
21	1	JP2	STM16D	Connettore 16 poli Flat cs
22	1	JP3	CN16PD	Connettore 16 poli Flat cs
23	1	Q1	BC807	Transistor SMD
24	34	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R12, R13, R18, R19, R20, R27, R29, R30, R32, R34, R36, R37, R41, R42, R43, R46, R48, R50, R53, R57, R59, R63, R66, R67	10K	Res.0805 1%
25	3	R11, R39, R40	TMV1K	Trimmer 3296
26	2	R14, R65	22K	Res.0805 1%
27	2	R15, R33	TMV10K	Trimmer 3296
28	2	R16, R17	TMV50K	Trimmer 3296
29	6	R21, R22, R52, R56, R68, R69	2K2	Res.0805 1%
30	1	R28	475K	Res.0805 1%
31	2	R31, R58	100K	Res.0805 1%
32	1	R35	15K	Res.0805 1%
33	3	R38, R49, R70	4K7	Res.0805 1%
34	1	R44	3K3	Res.0805 1%
35	1	R45	5K6	Res.0805 1%
36	2	R54, R55	47K	Res.0805 1%

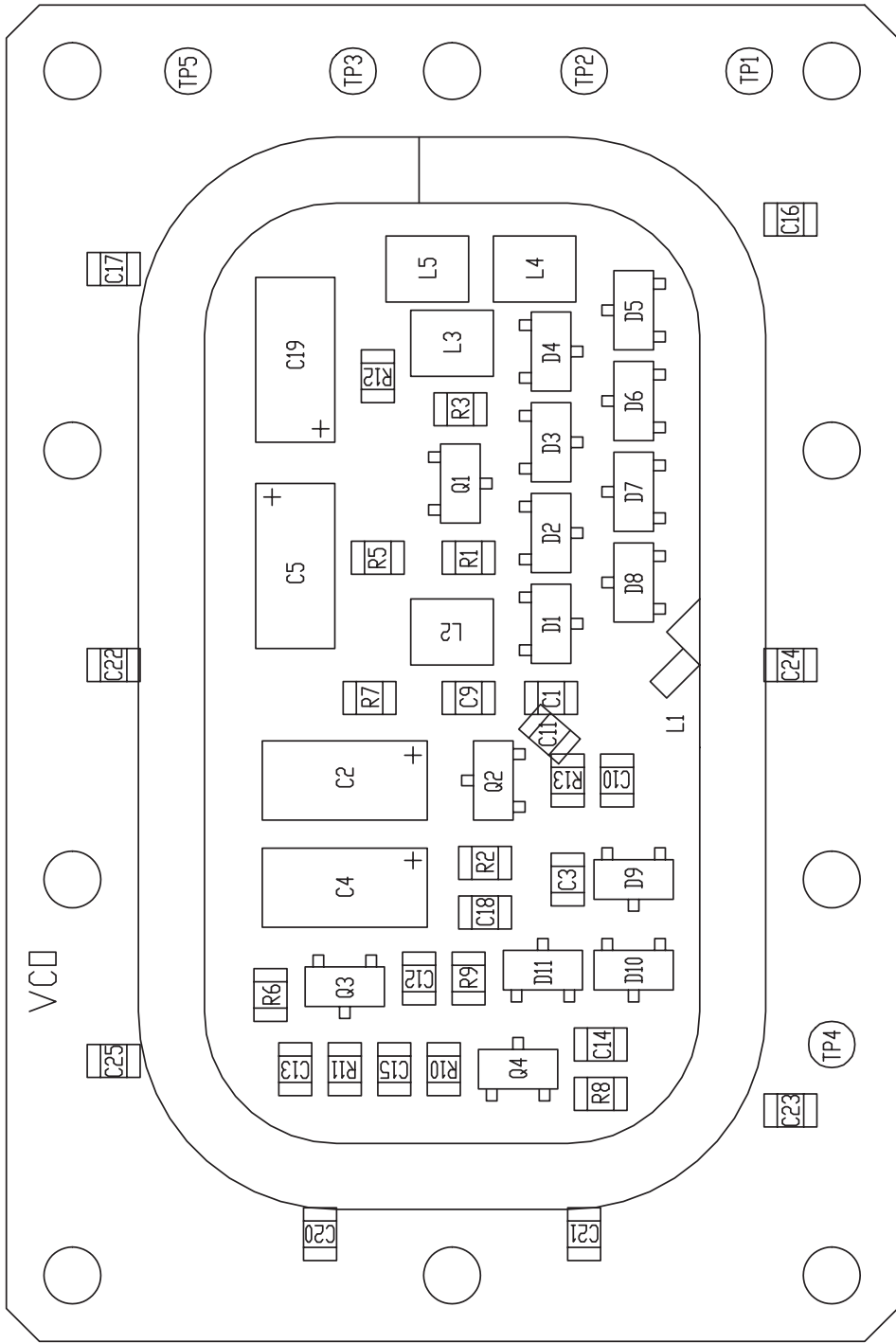
SLSTCOD04

37	1	R60	270	Res.0805 1%
38	1	R61	180K	Res.0805 1%
39	2	R62, R64	680	Res.0805 1%
40	1	U1	4094	Shift Reg. DIP16
41	1	U2	7808	Integrato SMD 7808
42	1	U3	7908	Integrato SMD 7908
43	5	U4, U6, U8, U9, U12	TL072	Dual Op. DIP8
44	1	U5	4066	Integrato SMD 4066
45	1	U7	4053	Analog Switch SMD SO16
46	1	U10	4053	Triple Analog switch DIP16
47	1	U11	LM393	Dual Comp. SMD SO8
48	1	U13	CA3096	Integrato SMD CA3096



L1 = Cavo schermato semirigido 17cm estremita' calza

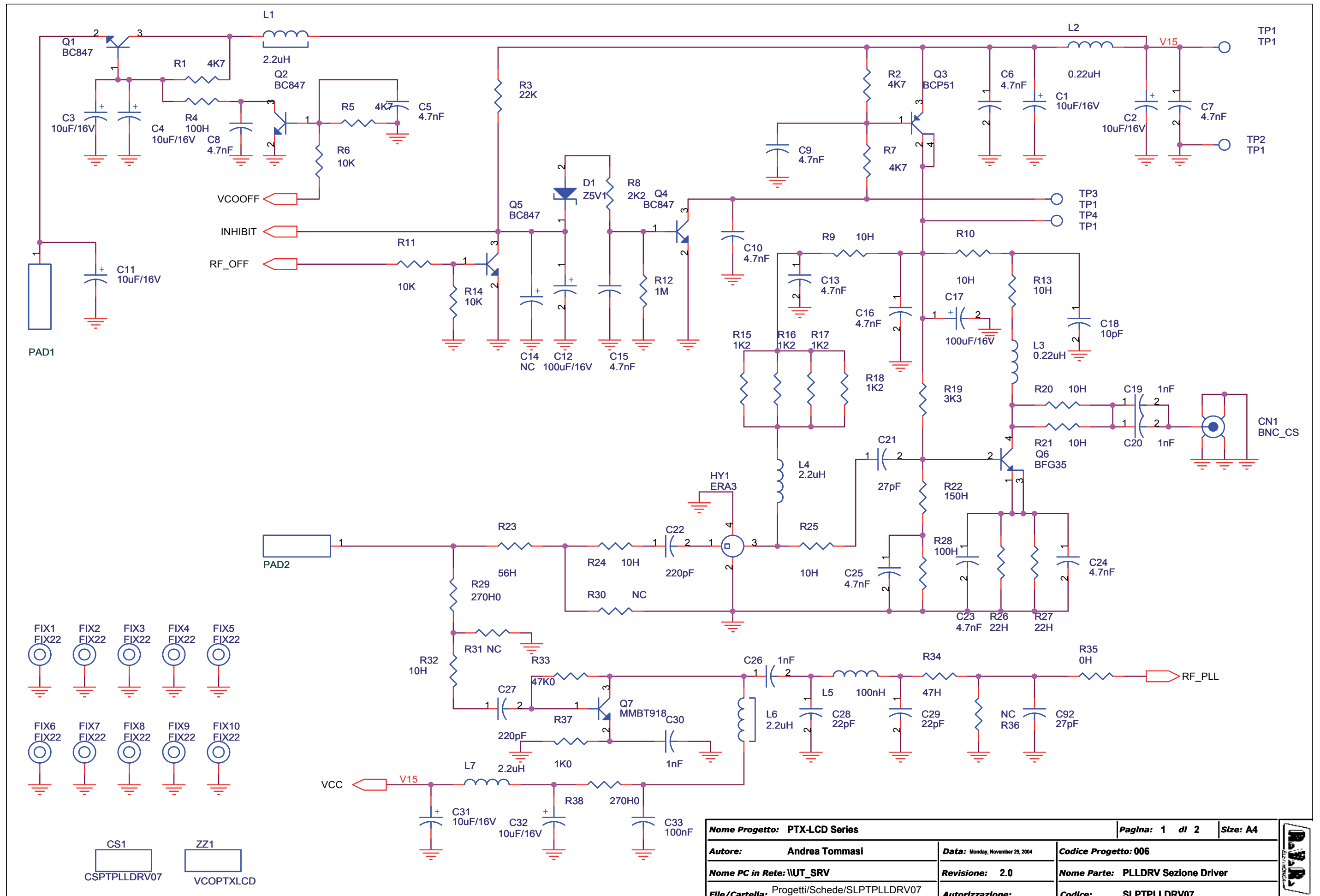
Nome Progetto: PTX30 LCD		Pagina: 1	di 1	Size: A4
Autore:	Ufficio Tecnico	Data:	18/06/03	Codice Progetto: PFPTX30LCDS
Nome PC in Rete:	\\UT_SRV\PROGETTI	Revisione:	2.0	Nome Parte: VCO Card
File/ Cartella:	MANUAL\PTX30_LCD\SLVCOPTX30LS_CEL\PTXCOB1.DSN	Autorizzazione:		Codice: SLVCOPTX30LC



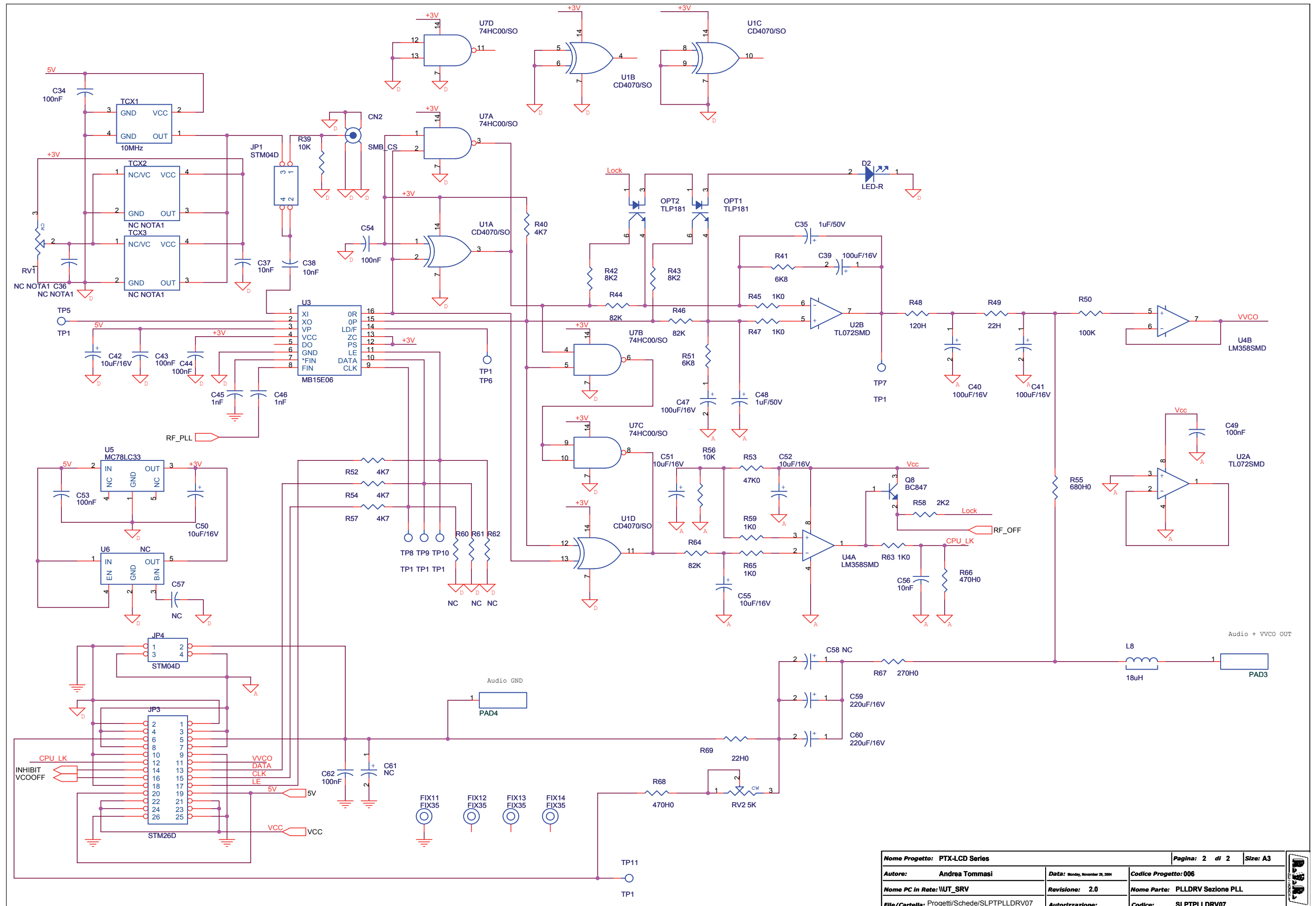
Nome Progetto: PTX30 LCD		Pagina: 1	di 1	Size: A4
Autore:	Ufficio Tecnico	Data:	18/06/03	Codice Progetto: PFPTX30LCDS
Nome PC in Rete:	\\UT_SRV\PROGETTI	Revisione:	2.0	Nome Parte: VCO CARD COMPONENT
File/ Cartella:	MANUAL\PTX30_LCD\SLVCOPTX30LS_CEL\PTXCOB1.DSN	Autorizzazione:		Codice: SLVCOPTX30LC
Scala: 2:1	Materiali:	Trattamenti:	/	Profilo:

SLVCOPTX30LC Revised: 14/07/04
Revision: 3.0
Scheda VCO

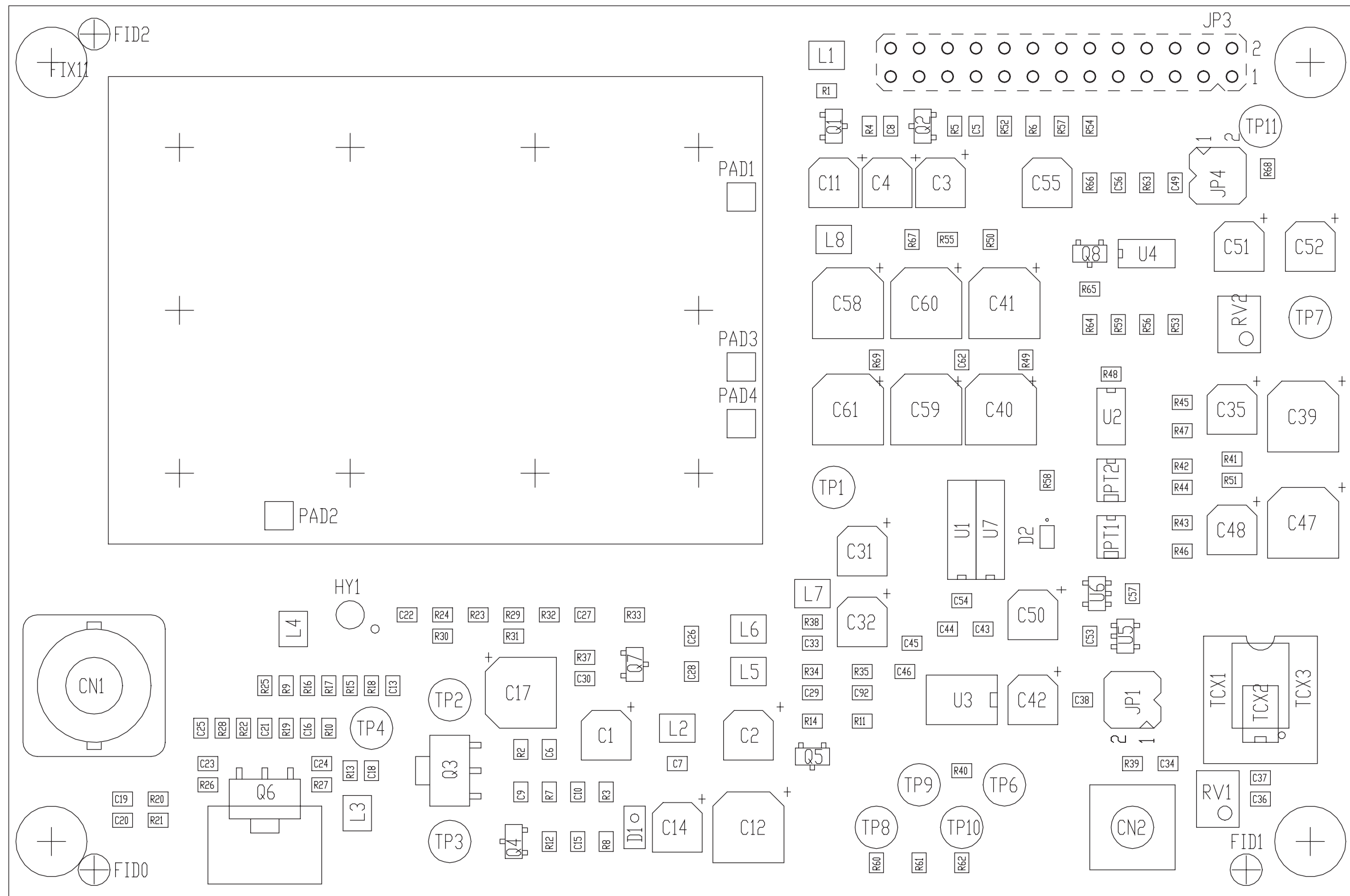
Item	Quantity	Reference	Part	Description
1	1	C1	470pF	Cond. SMD 0805
2	4	C2, C4, C5, C19	10uF/16V	Cond. Tantalio
3	4	C3, C14, C15, C18	10nF	Cond. SMD 0805
4	1	C9	22pF	Cond. SMD 0805
5	1	C10	33pF	Cond. SMD 0805
6	1	C11	15pF	
7	1	C12	3n3	Cond. SMD 0805
8	1	C13	47pF	Cond. SMD 0805
9	8	C16, C17, C20, C21, C22, C23, C24, C25	100nF	Cond. SMD 0805
10	8	D1, D2, D3, D4, D5, D6, D7, D8	MMBV109	Diodo Varicap SMD SOT23
11	3	D9, D10, D11	HSMS2800	Diodo SMD SOT23
12	1	L1	RG405	Induttanza a cavo RG
13	2	L2, L3	2u2	Induttanza SMD 3225 (1210)
14	2	L4, L5	22uH	Induttanza SMD 3225 (1210)
15	1	Q1	BC847	Trans. NPN SOT23
16	2	Q2, Q3	MMBFJ310	Trans. FET SOT23
17	1	Q4	MMBT918	Trans. NPN SOT23
18	1	R1	56	Res. SMD 0805
19	1	R2	100	Res. SMD 0805
20	2	R3, R11	4K7	Res. SMD 0805
21	1	R5	330K	Res. SMD 0805
22	2	R6, R8	150	Res. SMD 0805
23	1	R7	10	Res. SMD 0805
24	2	R9, R12	22	Res. SMD 0805
25	1	R10	10K	Res. SMD 0805
26	1	R13	100K	Res. SMD 0805
27	5	TP1, TP2, TP3, TP4, TP5	TPSMD	



Nome Progetto: PTX-LCD Series		Pagina: 1 di 2	Size: A4
Autore: Andrea Tommasi	Data: Monday, November 29, 2004	Codice Progetto: 006	
Nome PC in Rete: \UT_SRV	Revisione: 2.0	Nome Parte: PLLDRV Sezione Driver	
File/Cartella: Progetti/Schede/SLPTPLLDREV07	Autorizzazione:	Codice: SLPTPLLDREV07	



Nome Progetto: PTX-LCD Series		Pagina: 2 di 2	Size: A3
Autore: Andrea Tommasi	Data: Monday, November 28, 2004	Codice Progetto: 006	
Nome PC in Rete: \UT_SRV	Revisione: 2.0	Nome Parte: PLLDRV Sezione PLL	
File/Cartella: Progetti/Schede/SLPTPLLDREV07	Autorizzazione:	Codice: SLPTPLLDREV07	



NOME PROGETTO: PLL DRY CARD AUTORE: A. TOMMASI ARCHIVIAZIONE ELETTRONICA: "CARTELLA PROGETTI" SU "UT_SRV" MATERIALE: <>	NOME PARTE: PLL DRIVER CARD LAYOUT COMPONENT			
	DATA: 26/11/2004	REVISIONE: 2.0	SCALE: 2:1	SIZE: A4
CODICE PROGETTO: 006		CODICE DISEGNO: SLPTPLLDREV07		
TRATTAMENTO: <>		PROFILO: <>		STATO: ESECUTIVO

SLPTPLLDRV07

PLLDRV Sezione Driver Revised: Monday, November 29, 2004					
SLPTPLLDRV07 Revision: 2.0					
PTX-LCD Series					
006					
Andrea Tommasi					
Item	Quan- tity	Reference	Part	Description	
1	1	CN1	BNC_CS	Connettore BNC 10x10 cs	
2	1	CN2	SMB_CS	Connettore SMB cs	
3	1	CS1	CSPTPLL- DRV07	Circuito stampato	
4	12	C1, C2, C3, C4, C11, C31, C32, C42, C50, C51, C52, C55	10uF/16V	Cond. Elett. SMD d. 4mm	
5	12	C5, C6, C7, C8, C9, C10, C13, C15, C16, C23, C24, C25	4.7nF	Cond. SMD 0805	
6	6	C12, C17, C39, C40, C41, C47	100uF/16V	Cond. Elett. SMD d. 6.3mm	
7	1	C14	NC	Cond. Elett. SMD d. 4mm	
8	1	C18	10pF	Cond. SMD 0805	
9	6	C19, C20, C26, C30, C45, C46	1nF	Cond. SMD 0805	
10	2	C21, C92	27pF	Cond. SMD 0805	Nota 6
11	2	C22, C27	220pF	Cond. SMD 0805	
12	2	C28, C29	22pF	Cond. SMD 0805	
13	8	C33, C34, C43, C44, C49, C53, C54, C62	100nF	Cond. SMD 0805	
14	2	C35, C48	1uF/50V	Cond. Elett. SMD d. 4mm	
15	1	C36	NC NOTA1	Cond. SMD 0805	
16	3	C37, C38, C56	10nF	Cond. SMD 0805	
17	1	C57	NC	Cond. SMD 0805	
18	2	C58, C61	NC	Cond. Elett. SMD d. 6.3mm	
19	2	C59, C60	220uF/16V	Cond. Elett. SMD d. 6.3mm	
20	1	D1	Z5V1	MINIMELF SMD Zener Diode	
21	1	D2	LED-R	LED SMD 0805	
22	10	FIX1, FIX2, FIX3, FIX4, FIX5, FIX6, FIX7, FIX8, FIX9, FIX10	FIX22	Foro fissaggio 2.2mm	
23	4	FIX11, FIX12, FIX13, FIX14	FIX35	Foro fissaggio 3.5mm	
24	1	HY1	ERA3	Ibrido MAR/ERA	
25	2	JP1, JP4	STM04D	Strip maschio 2+2 pin	

26	1	JP3	STM26D	Strip maschio 13+13 pin	
27	2	L1, L6	2.2uH	Induttanza SMD 3225 (1210) Schermata	
28	2	L2, L3	0.22uH	Induttanza SMD 3225 (1210)	
29	2	L4, L7	2.2uH	Induttanza SMD 3225 (1210)	
30	1	L5	100nH	Induttanza SMD 3225 (1210)	
31	1	L8	18uH	Induttanza SMD 3225 (1210) Schermata	
32	2	OPT1, OPT2	TLP181	Optoisolatore SMD SO6	Nota 2
33	4	PAD1, PAD2, PAD3, PAD4	PAD2525	Pad a saldare 2.5x2.5 mm	
34	5	Q1, Q2, Q4, Q5, Q8	BC847	Trans. NPN SOT23	
35	1	Q3	BCP51	Trans. PNP SOT223	
36	1	Q6	BFG35	Trans. NPN SOT223	
37	1	Q7	MMBT918	Trans. NPN SOT23	
38	1	RV1	NC NOTA1	Trimm. multi SMD PVG5 Murata	Nota 1
39	1	RV2	5K	Trimm. multi SMD PVG5 Murata	
40	8	R1, R2, R5, R7, R40, R52, R54, R57	4K7	Res. SMD 0805	
41	1	R3	22K	Res. SMD 0805	
42	2	R4, R28	100H	Res. SMD 0805	
43	5	R6, R11, R14, R39, R56	10K	Res. SMD 0805	
44	2	R8, R58	2K2	Res. SMD 0805	
45	8	R9, R10, R13, R20, R21, R24, R25, R32	10H	Res. SMD 0805	
46	1	R12	1M	Res. SMD 0805	
47	4	R15, R16, R17, R18	1K2	Res. SMD 0805	
48	1	R19	3K3	Res. SMD 0805	
49	1	R22	150H	Res. SMD 0805	
50	1	R23	56H	Res. SMD 0805	
51	3	R26, R27, R49	22H	Res. SMD 0805	
52	3	R29, R38, R67	270H0	Res. SMD 0805	
53	6	R30, R31, R36, R60, R61, R62	NC	Res. SMD 0805	
54	2	R33, R53	47K0	Res. SMD 0805	
55	1	R34	47H	Res. SMD 0805	
56	1	R35	0H	Res. SMD 0805	
57	6	R37, R45, R47, R59, R63, R65	1K0	Res. SMD 0805	
58	2	R41, R51	6K8	Res. SMD 0805	
59	2	R42, R43	8K2	Res. SMD 0805	
60	3	R44, R46, R64	82K	Res. SMD 0805	

61	1	R48	120H	Res. SMD 0805	
62	1	R50	100K	Res. SMD 0805	
63	1	R55	680H0	Res. SMD 0805	
64	2	R66, R68	470H0	Res. SMD 0805	
65	1	R69	22H0	Res. SMD 0805	
66	1	TCX1	10MHz	TCXO SMD	
67	1	TCX2	NC NOTA1	TCXO SMD 50x32mm	Nota 1
68	1	TCX3	NC NOTA1	TCXO SMD 70x52mm	Nota 1
69	11	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11	NC	Test point	
70	1	U1	CD4070/SO	Quad XOR SMD SO14	Nota 4
71	1	U2	TL072SMD	Dual Op. SMD SO8	
72	1	U3	MB15E06	Integrated PLL	Nota 3
73	1	U4	LM358SMD	Dual Op. SMD SO8	
74	1	U5	MC78LC33	Stab. SMD SOT23-5	
75	1	U6	NC	Stab. SMD SOT23-5	
76	1	U7	74HC00/SO	Quad NAND SMD SO14	Nota 4
77	1	ZZ1	VCOPTX- LCD	Mettere descrizione	Nota 5

NOTA 1
 TCXO alternativi allo standard 10 MHz che prevedono la regolazione fine della
 frequenza tramite un trimmer.
 In caso montare RV1 da 5K o 10K e C36 100nF

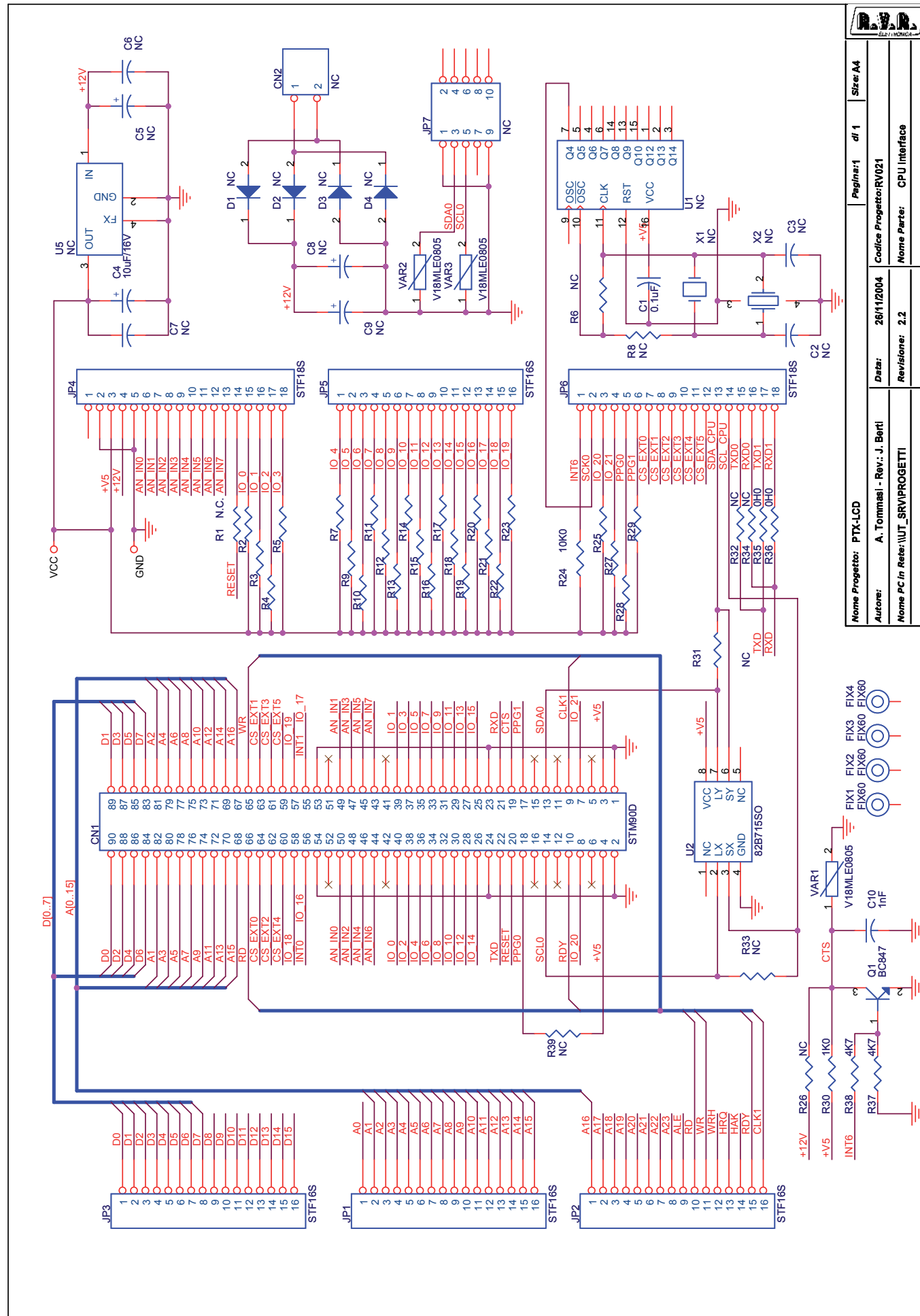
NOTA 2
 O equivalente SFH690

NOTA 3
 Test alternative possibili MB15E03 e MB15E05

NOTA 4
 In alternativa a U1 CD4070 puo' essere montato U7 74HC00

NOTA 5
 Fissare il CS del VCO tramite 10 viti da 2MA utilizzando l'apposita
 piastrina di alluminio e unire con filo di rame le piazzole del VCO con
 quelle del CS (4 in tutto)

NOTA 6
 C92 e' nella posizione di R36



NOME PROGETTO: PTX-LCD

AUTORE: S. Poluzzi - Rev.: Berti J.

NOME PARTE: CPU INTERFACE

DATA: 12/02/2004 REVISIONE: 2.1 SCALA: 1:1 SIZE: A4 PAGINA: 1 DI 1

ARCHIVIAZIONE ELETTRONICA: "CARTELLA PROGETTI" SU "UT_SRV"

CODICE PROGETTO: RV021

CODICE DISEGNO: CSCPU16V90-02

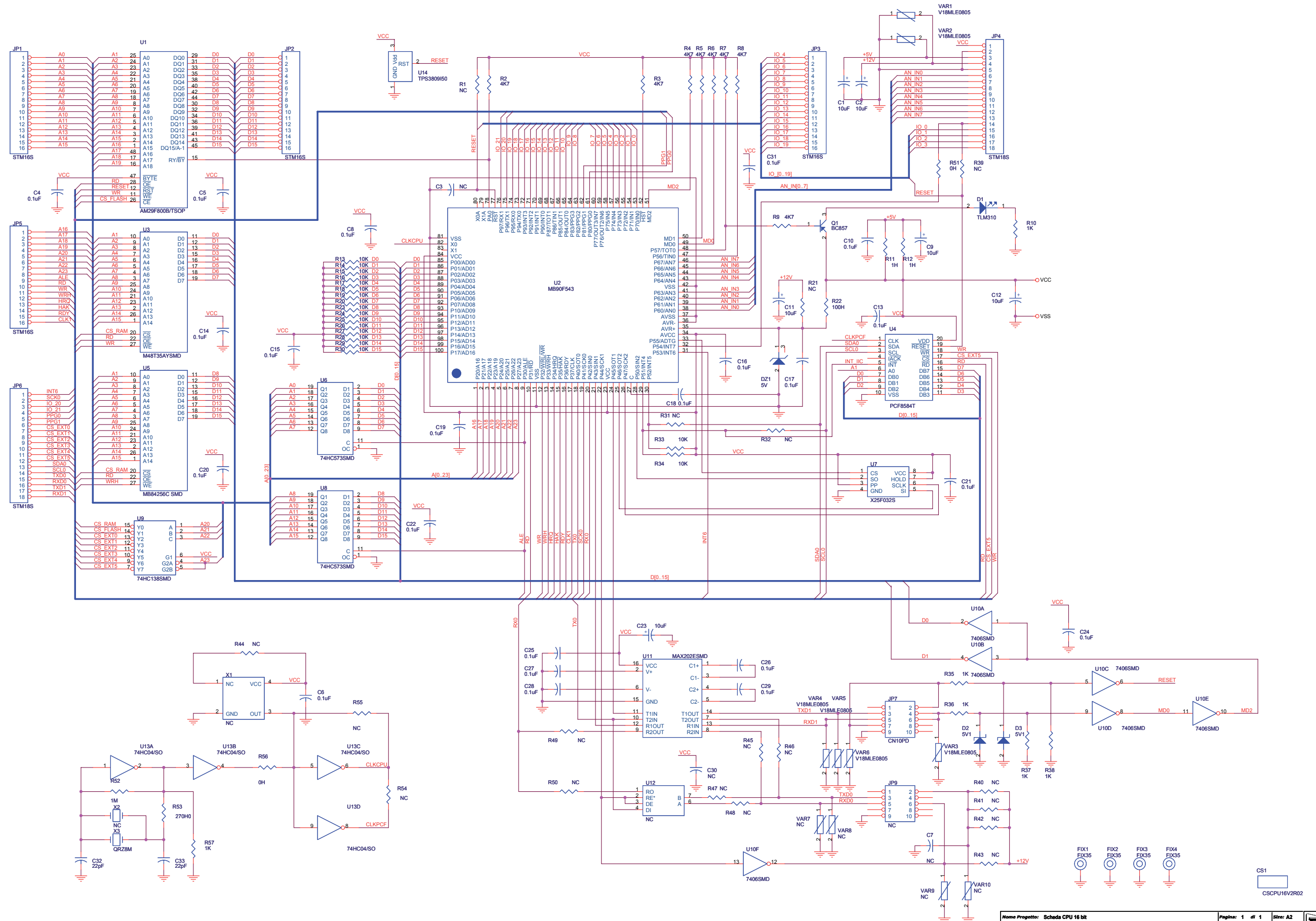
MATERIALE: FR4-74 1.6mm Cu 35um

TRATTAMENTO: STANDARD COSTRUTTORE

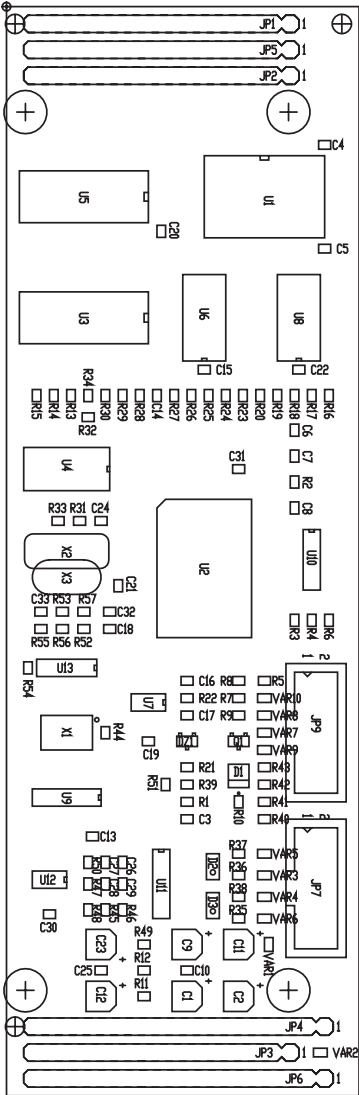
PROFILO: Positivo

STATO: <>

SLCPU16V90-2					
Revised: 26/11/2004					
Revision: 2.2					
Item	Quan- tity	Reference	Part	Description	
1	1	CN1	STM90D	Strip maschio 45+45 pin	Nota 1
2	1	CN2	NC	Conn. tipo KRA a 2 poli	
3	1	C1	0.1uF	Cond. SMD 0805	
4	4	C2, C3, C6, C7	NC	Cond. SMD 0805	
5	1	C4	10uF/16V	Cond. Elett. SMD d. 4mm	
6	3	C5, C8, C9	NC	Cond. Elett. SMD d. 6.3mm	
7	1	C10	1nF	Cond. SMD 0805	
8	4	D1, D2, D3, D4	NC	MELF SMD Diode	
9	4	FIX1, FIX2, FIX3, FIX4	FIX60	Foro fissaggio 6mm	
10	4	JP1, JP2, JP3, JP5	STF16S	Strip femmina 16 pin	Nota 2
11	2	JP4, JP6	STF18S	Strip femmina 18 pin	Nota 2
12	1	JP7	NC	Connettore 10 poli Flat cs a 90°	
13	1	Q1	BC847	Trans. NPN SOT23	
14	1	R1	N.C.	Res. SMD 0805	
15	25	R2, R3, R4, R5, R7, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R27, R28, R29	10K0	Res. SMD 0805	
16	8	R6, R8, R26, R31, R32, R33, R34, R39	NC	Res. SMD 0805	
17	1	R30	1K0	Res. SMD 0805	
18	2	R35, R36	0H0	Res. SMD 0805	
19	2	R37, R38	4K7	Res. SMD 0805	
20	1	U1	NC	Divider SMD SO16	
21	1	U2	82B715SO	IIC Bus driver SMD SO8	
22	1	U5	NC	Stabilizzatore TO220	
23	3	VAR1, VAR2, VAR3		ESD SMD protector	
24	1	X1	NC	Quarzo SMD HC49SMD	
25	1	X2	NC	Quarzo HC25 orizz.	
Nota 1: Montare lato 'Saldature'					
Nota 2: Montare lato Componenti					



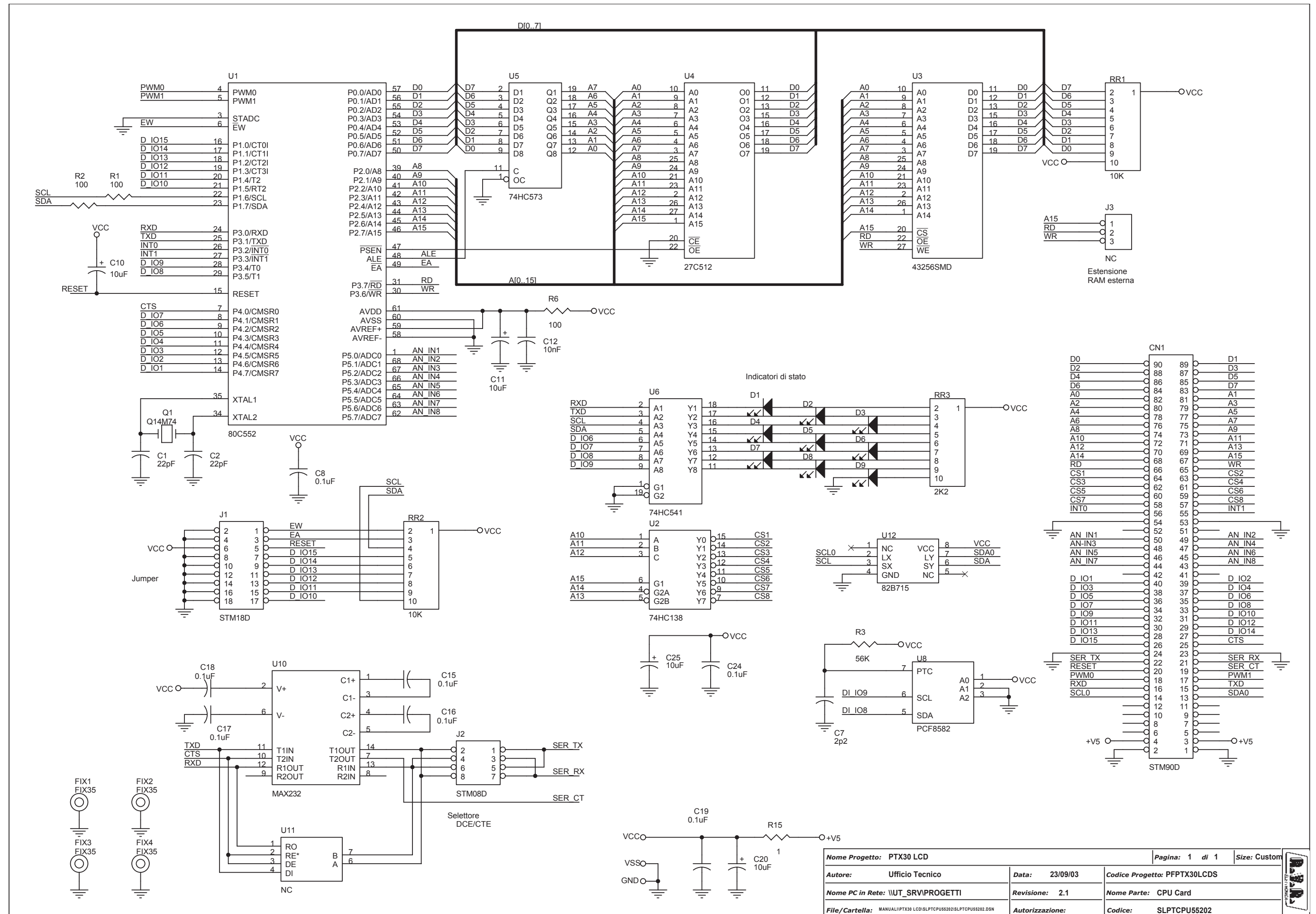
Nome Progetto: Scheda CPU 16 bit		Pagina: 1 di 1	Size: A2
Autore: A. Tommasi / F. Thi	Data: Tuesday, February 15, 2005	Codice Progetto: RVR021	
Nome PC in Rete: IUT_SRVPROGETTI	Revisione: 1.3	Nome Parte: Scheda CPU	
File/Cartella: /	Autore/Revisione:	Codice: SLCPU16V2R02	

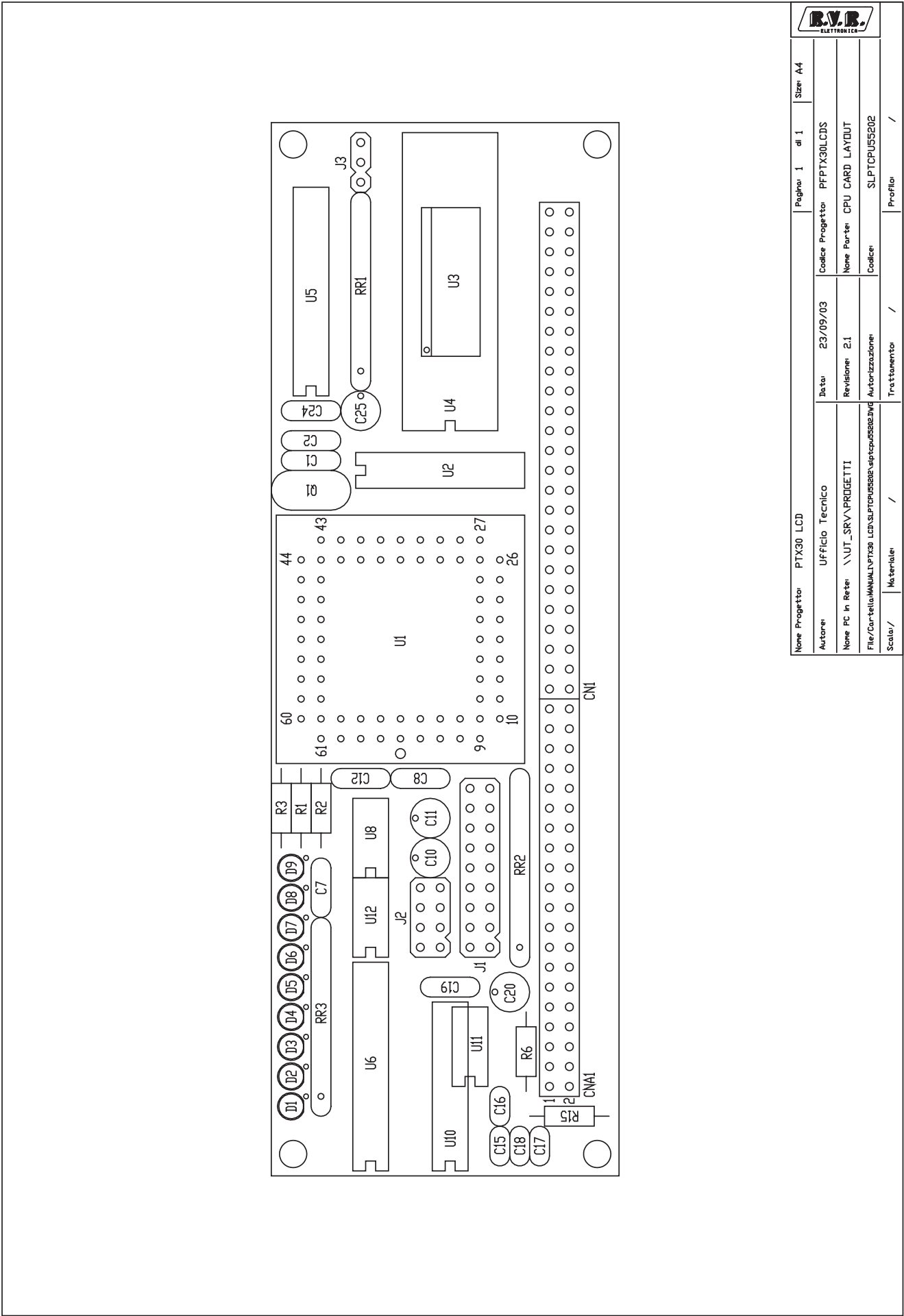


Scheda CPU Revised:15/02/2005
SLCPU16V2R02 Revision:1.3
Scheda CPU 16 bit
RVR021
A. Tommasi/F. Thei

Item	Quantity	Reference	Part	PCB Footprint	Description
1	1	CS1	CSCPU16V2R02	CS	Ciruito stampato
2	6	C1,C2,C9,C11,C12,C23	10uF	CES4	Cond.Elett.SMD d.4mm
3	3	C3,C7,C30	NC	CC0805,0603	Cond.SMD 0805
4	22	C4,C5,C6,C8,C10,C13,C14,C15,C16,C17,C18,C19,C20,C21,C22,C24,C25,C26,C27,C28,C29,C31	0.1uF	CC0805,0603	Cond.SMD 0805
5	2	C32,C33	22pF	CC0805,0603	Cond.SMD 0805
6	1	DZ1	5V	SOT23	Diode Zener SMD SOT23
7	1	D1	TLM 310	PLCC2	LED SMD PLCC2
8	2	D2,D3	5V1	MNMELF	MNMELF SMD Zener Diode
9	4	FX1,FX2,FX3,FX4	FX35	FX35	Foro fissaggio
10	4	JP1,JP2,JP3,JP5	STM 16S	STM 16S	Strip maschio 16 pin
11	2	JP4,JP6	STM 18S	STM 18S	Strip maschio 18 pin
12	1	JP7	CN10PD	CN10PD	Connettore 10 polifatics
13	1	JP9	NC	CN10PD	Connettore 10 polifatics
14	1	Q1	BC857	SOT23	Trans. PNP SOT23
15	18	R1,R21,R31,R32,R39,R40,R41,R42,R43,R44,R45,R46,R47,R48,R49,R50,R54,R55	NC	RS0805,0603	Res.SMD 0805
16	8	R2,R3,R4,R5,R6,R7,R8,R9	4K7	RS0805,0603	Res.SMD 0805
17	6	R10,R35,R36,R37,R38,R57	1K	RS0805,0603	Res.SMD 0805
18	2	R12,R11	1H	RS0805,0603	Res.SMD 0805
19	18	R13,R14,R15,R16,R17,R18,R19,R20,R23,R24,R25,R26,R27,R28,R29,R30,R33,R34	10K	RS0805,0603	Res.SMD 0805
20	1	R22	100H	RS0805,0603	Res.SMD 0805
21	2	R56,R51	0H	RS0805,0603	Res.SMD 0805
22	1	R52	1M	RS0805,0603	Res.SMD 0805
23	1	R53	270H0	RS0805,0603	Res.SMD 0805
24	1	U1	AM29F800B(TSOP	TSOP48	Flash Eeprom SMD TSOP48
25	1	U2	MB90F543	QFP100	QFP100 SMD Microprocessor
26	1	U3	M48T35AYSMD	SO28	RAM+RTC with Battery SMD
27	1	U4	PCF8584T	SO20	IC Bus controller SMD
28	1	U5	MB84256C SMD	SO28	RAM+RTC with Battery SMD
29	2	U6,U8	74HC573SMD	SO20	Octal Latch SMD
30	1	U7	X25F032S	SO8	Serial EEPROM SMD
31	1	U9	74HC138SMD	SO16	8 line decoder SMD
32	1	U10	7406SMD	SO14	Hex inv OC SMD SO14
33	1	U11	MAX202ESMD	SO16	RS232 Driver SMD SO16
34	1	U12	NC	SO8	RS485 driver SMD SO8
35	1	U13	74HC04SO	SO14	Hex Inv. SMD SO14
36	1	U14	TPS380950	SOT23	uP supply supervisor
37	6	VAR1,VAR2,VAR3,VAR4,VAR5,VAR6	V18MLE0805	RS0805	ESD SMD protector
38	4	VAR7,VAR8,VAR9,VAR10	NC	RS0805	ESD SMD protector
39	1	X1	NC	XOSCM N92AT	Osc. quarzo SMD
40	1	X2	NC	QRZ49SM	Quarzo SMD HC49SMD
41	1	X3	QRZ8M	QRZ18	Quarzo HC18

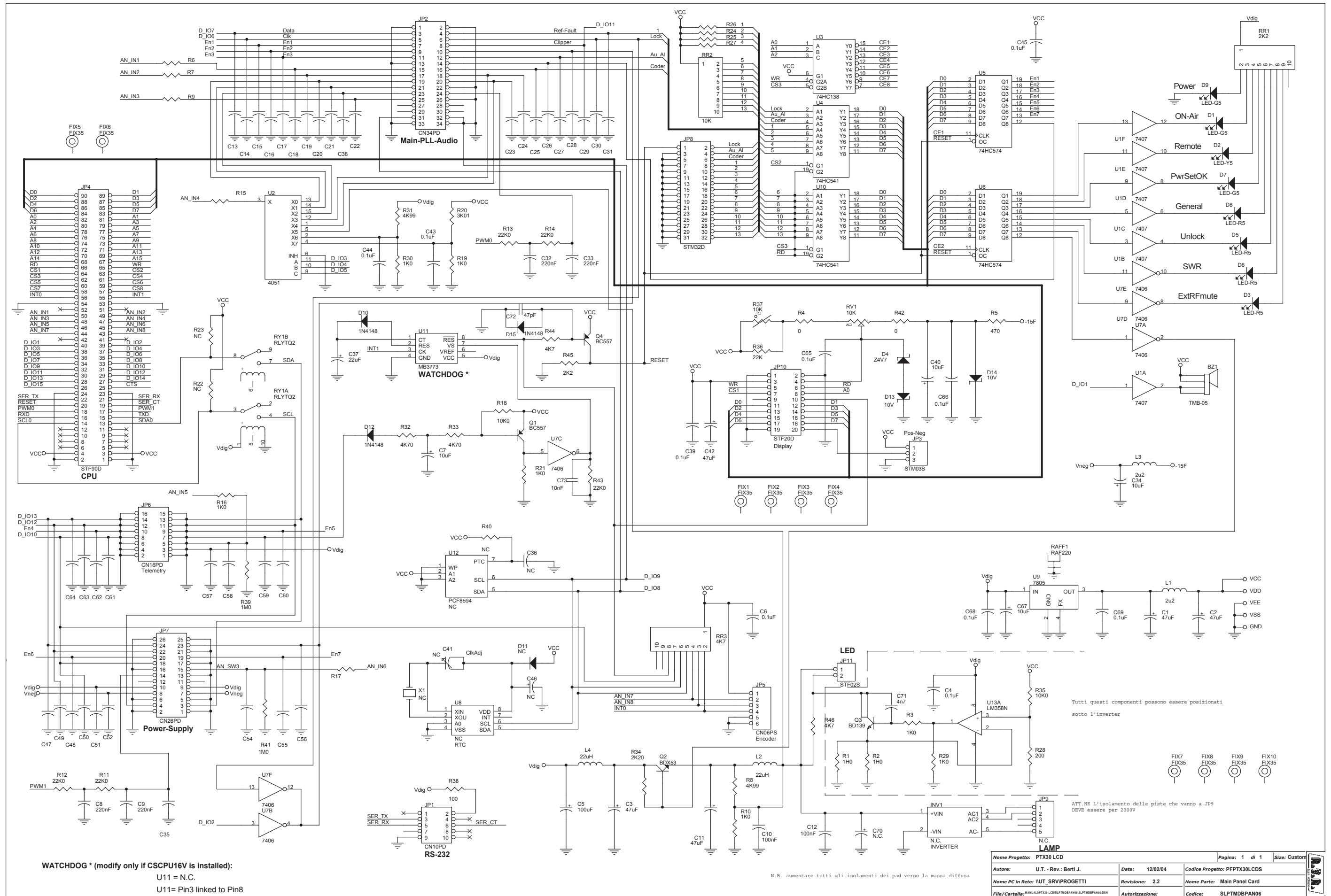
	NOME PROGETTO: PTX-LCD		NOME PARTE: SCHEDA CPU BUS 16BIT				
	AUTORE: S. Poluzzi - Rev.: Berti J.		DATA: 12/02/2004	REVISIONE: 2.1	SCALA: 1:1	SIZE: A4	PAGINA: 1 DI 1
ARCHIVIAZIONE ELETTRONICA: "CARTELLA PROGETTI" SU "UT_SRV"			CODICE PROGETTO: RV021		CODICE DISEGNO: CSCPU16V2R02		
MATERIALE: FR4-74 1.6mm Cu 35um 4 LAYER			TRATTAMENTO: STANDARD COSTRUTTORE		PROFILO: Positivo		STATO: <>

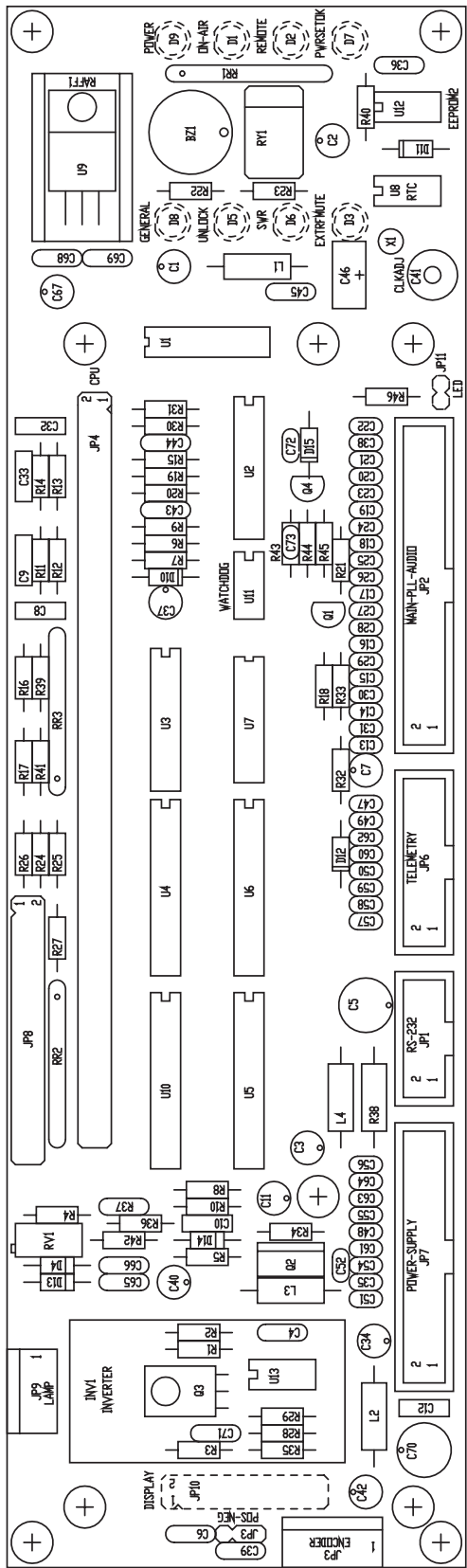




Nome Progetto: PTX30 LCD		Pagina: 1 di 1		Size: A4	
Autore: Ufficio Tecnico		Data: 23/09/03		Codice Progetto: PFPTX30LCDS	
Nome PC in Rete: \\\UT_SRV\PROGETTI		Revisione: 2.1		Nome Parte: CPU CARD LAYOUT	
File/Cartella/MANUALI/PTX30 LCD/SUPPL/SLPTCPU55202.DWG		Autore: /		Codice: SLPTCPU55202	
Scala: /		Trattamento: /		Profilo: /	

CPU Card Revised: 14/07/04				
SLPTCPU55202 Revision: 3.0				
PTX30 LCD				
PFPTX30LCDS				
Item	Quan- tity	Reference	Part	Description
1	1	CN1	STM90D	Strip maschio 45+45 pin
2	2	C1, C2	22pF	Cond. ceramico p 5mm
3	1	C7	2p2	Cond. ceramico p 5mm
4	3	C8, C19, C24	0.1uF	Cond. ceramico p 5mm
5	4	C10, C11, C20, C25	10uF/50V	Cond. Elettr. Vert.
6	1	C12	10nF	Cond. ceramico p 5mm
7	4	C15, C16, C17, C18	0.1uF	Cond. ceramico multistrato p 5mm
8	9	D1, D2, D3, D4, D5, D6, D7, D8, D9	LED-R3	LED dia. 3mm
9	4	FIX1, FIX2, FIX3, FIX4	FIX35	Foro fissaggio 3.5mm
10	5	JP1, JP2, JP3, JP4, JP5	JUMP	Mini jumper
11	1	J1	STM18D	
12	1	J2	STM08D	
13	2	J3, U11	NC	
14	1	Q1	Q14M74	Quarzo HC18
15	2	RR1, RR2	10K	Rete resistiva 9R
16	1	RR3	2K2	Rete resistiva 9R
17	3	R1, R2, R6	100	Res. 1/4W 5%
18	1	R3	56K	Res. 1/4W 5%
19	1	R15	1	Res. 1/4W 5%
20	1	U1	80C552	
21	1	U2	74HC138	
22	1	U3	76C256C	
23	1	U4	27C512	
24	1	U5	74HC573	
25	1	U6	74HC541	
26	1	U8	PCF8582	
27	1	U10	MAX202	
28	1	U12	82B715	IIC Bus driver DIP8





						
Nome Progetto		PTX30 LCD		Pagina: 1	di 1	Size: A4
Autore		Ufficio Tecnico		Codice Progetto		
Data		12/02/04			PFPTX30LCDS	
Nome PC in Rete		\\UT_SRV\PROGETTI		Nome Parte		
Revisione		2.2			MAIN PANEL CARD LAYOUT	
File/Carta/Manual/PTX30 LCD		SLPTMDBPAN06		Autore/Revisione		
Scala /		Ma scalati /		Trattamento /		
Profilo		/				

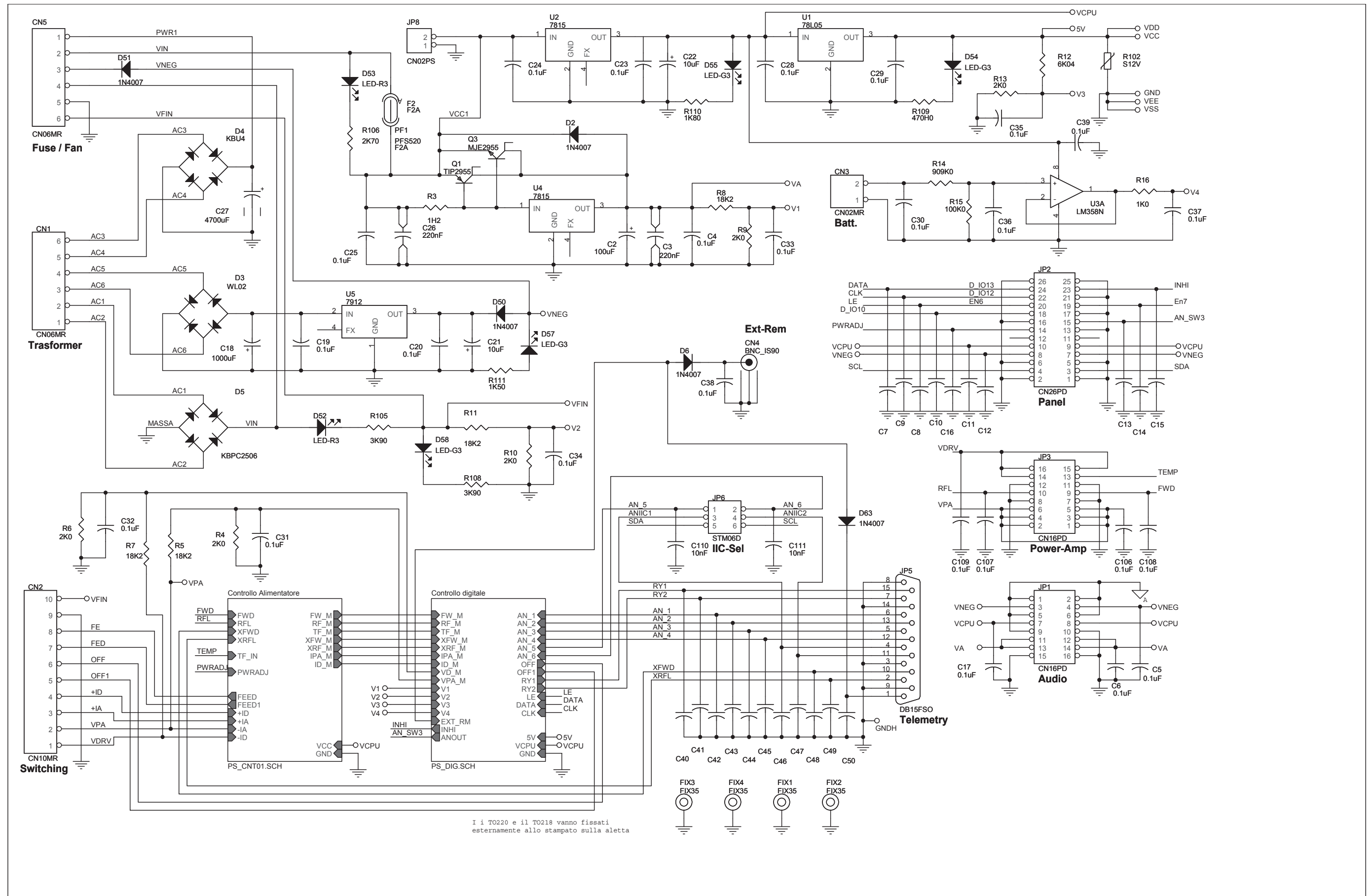
Main Panel Card Revised: Jul 19, 2004				
SLPTMDBPAN06 Revision: 3.0				
PTX LCD				
PFPTX30LCDS				
Item	Quantity	Reference	Part	Description
1	1	BZ1	TMB-05	Buzzer TMB-05
2	5	C1, C2, C3, C11, C42	47uF/16V	Cond. Elettr. Vert.
3	10	C4, C6, C39, C43, C44, C45, C65, C66, C68, C69	0.1uF	Cond. ceramico p 5mm
4	1	C5	100uF/25V	Cond. Elettr. Vert.
5	4	C7, C34, C40, C67	10uF/35V	Cond. Elettr. Vert.
6	4	C8, C9, C32, C33	220nF	Cond. Poliestere p 5mm
7	2	C10, C12	100nF	Cond. Poliestere p 5mm
8	35	C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C35, C38, C47, C48, C49, C50, C54, C55, C56, C58, C59, C60, C61, C62, C63, C64	100pF	Cond. Ceramico p 2.5mm NPO
9	1	C36	NC	Cond. ceramico p 5mm
10	1	C37	22uF/16V	Cond. Elettr. Vert.
11	1	C41	NC	Comp. ceramico dia. 7mm
12	4	X1, U8, U12, C46	NC	
13	3	C51, C52, C57	10nF	Cond. Ceramico p 2.5mm
14	1	C70	N.C.	Cond. Elettr. Vert.
15	1	C71	4n7	Cond. ceramico p 5mm
16	1	C72	470pF	Cond. ceramico p 5mm
17	1	C73	100nF	Cond. ceramico p 5mm
18	3	D1, D7, D9	LED-G5	LED dia. 5mm
19	1	D2	LED-Y5	LED dia. 5mm
20	4	D3, D5, D6, D8	LED-R5	LED dia. 5mm
21	1	D4	Z4V7	1/2W Zener Diode
22	3	D10, D12, D15	1N4148	Diodo in vetro DO35
23	1	D11	NC	Diodi Hot carrier DO35
24	2	D13, D14	10V	1/2W Zener Diode
25	10	FIX1, FIX2, FIX3, FIX4, FIX5, FIX6, FIX7, FIX8, FIX9, FIX10	FIX35	Foro fissaggio 3.5mm
26	1	INV1	N.C.	
27	1	JP1	CN10PD	Connettore 10 poli Flat cs

Main Panel Card

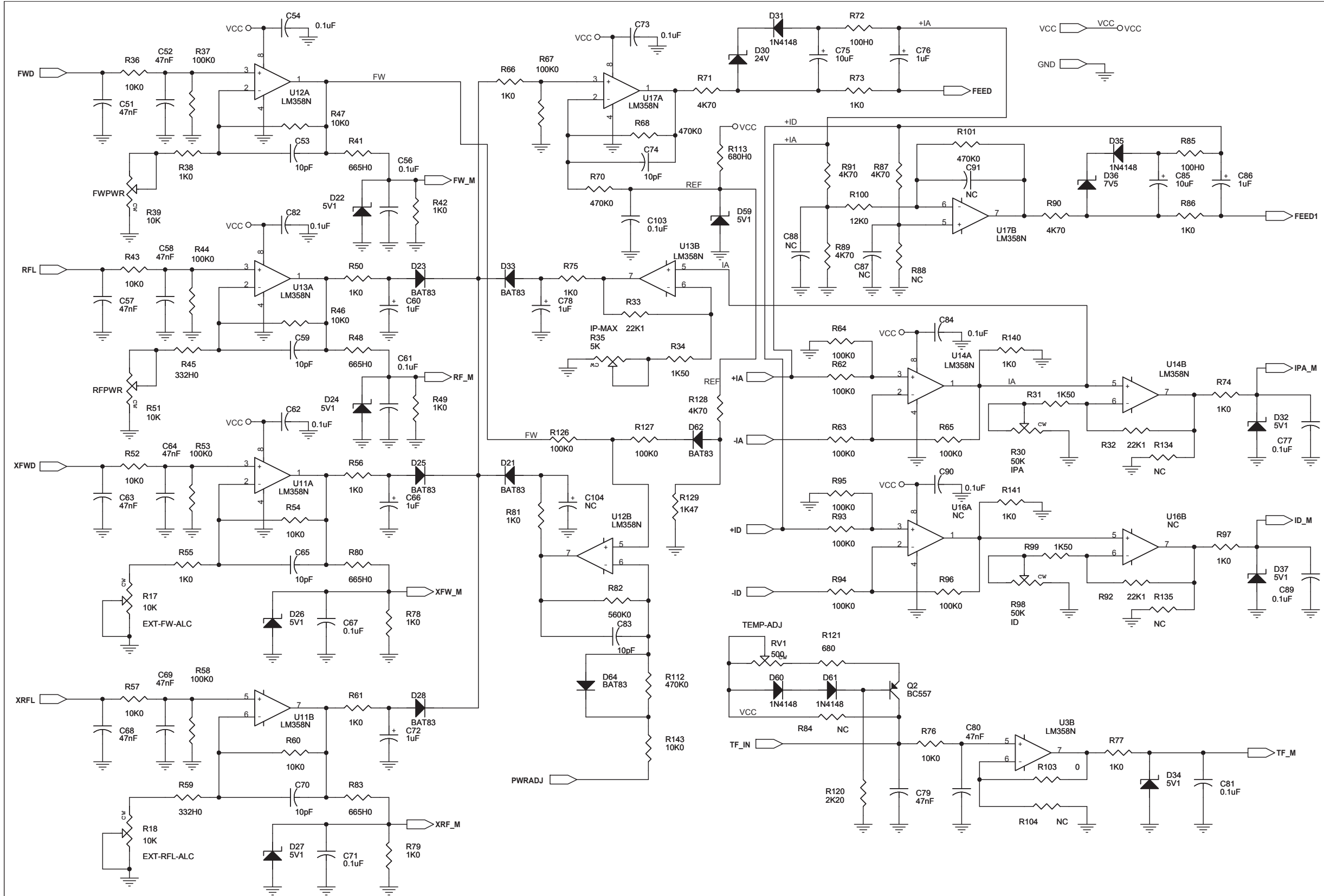
SLPTMDBPAN06

28	1	JP2	CN34PD	Connettore 34 poli Flat cs
29	1	JP3	NC	Strip maschio 3 pin
30	1	JP4	STF90D	Strip femmina 45+45 pin
31	1	JP5	CN06PS	Connettore 6 poli Pan-duit
32	1	JP6	CN16PD	Connettore 16 poli Flat cs
33	1	JP7	CN26PD	Connettore 26 poli Flat cs
34	1	JP8	STM32D	Strip maschio 2X16 pin
35	1	JP9	N.C.	Connettore 5 poli Pan-duit
36	1	JP10	STF20D	Strip femmina 10+10 pin
37	1	JP11	STF02S	Strip femmina 2 pin
38	1	JP12	Mini Jumper	
39	2	L1, L3	2u2	Induttanza cilindrica
40	2	L2, L4	22uH	Induttanza cilindrica
41	2	Q1, Q4	BC557	Trans. PNP TO92
42	1	Q2	BDX53	Trans. NPN TO220
43	1	Q3	BD139	
44	1	RAFF1	RAF220	Dissipatore TO220
45	1	RR1	2K2	Rete resistiva 9R
46	1	RR2	10K	Rete resistiva 9R
47	1	RR3	4K7	Rete resistiva 9R
48	1	RV1	10K	Trimmer Rg H 3296X
49	1	RY1	RLYTQ2	Rele' TQ2
50	2	R1, R2	1H0	Res. 1/4W 1%
51	12	R3, R6, R7, R9, R10, R15, R16, R17, R19, R21, R29, R30	1K0	Res. 1/4W 1%
52	2	R4, R42	0	Res. 1/4W 1%
53	2	R5, R45	470H	Res. 1/4W 1%
54	2	R8, R31	4K99	Res. 1/4W 1%
55	8	R11, R12, R18, R24, R25, R26, R27, R35	10K0	Res. 1/4W 1%
56	4	R13, R14, R36, R43	22K0	Res. 1/4W 1%
57	1	R20	3K01	Res. 1/4W 1%
58	3	R22, R23, R40	NC	Res. 1/4W 1%
59	1	R28	200H	Res. 1/4W 1%
60	4	R32, R33, R44, R46	4K70	Res. 1/4W 1%
61	1	R34	2K20	Res. 1/4W 1%
62	1	R37	10K0 NTC	

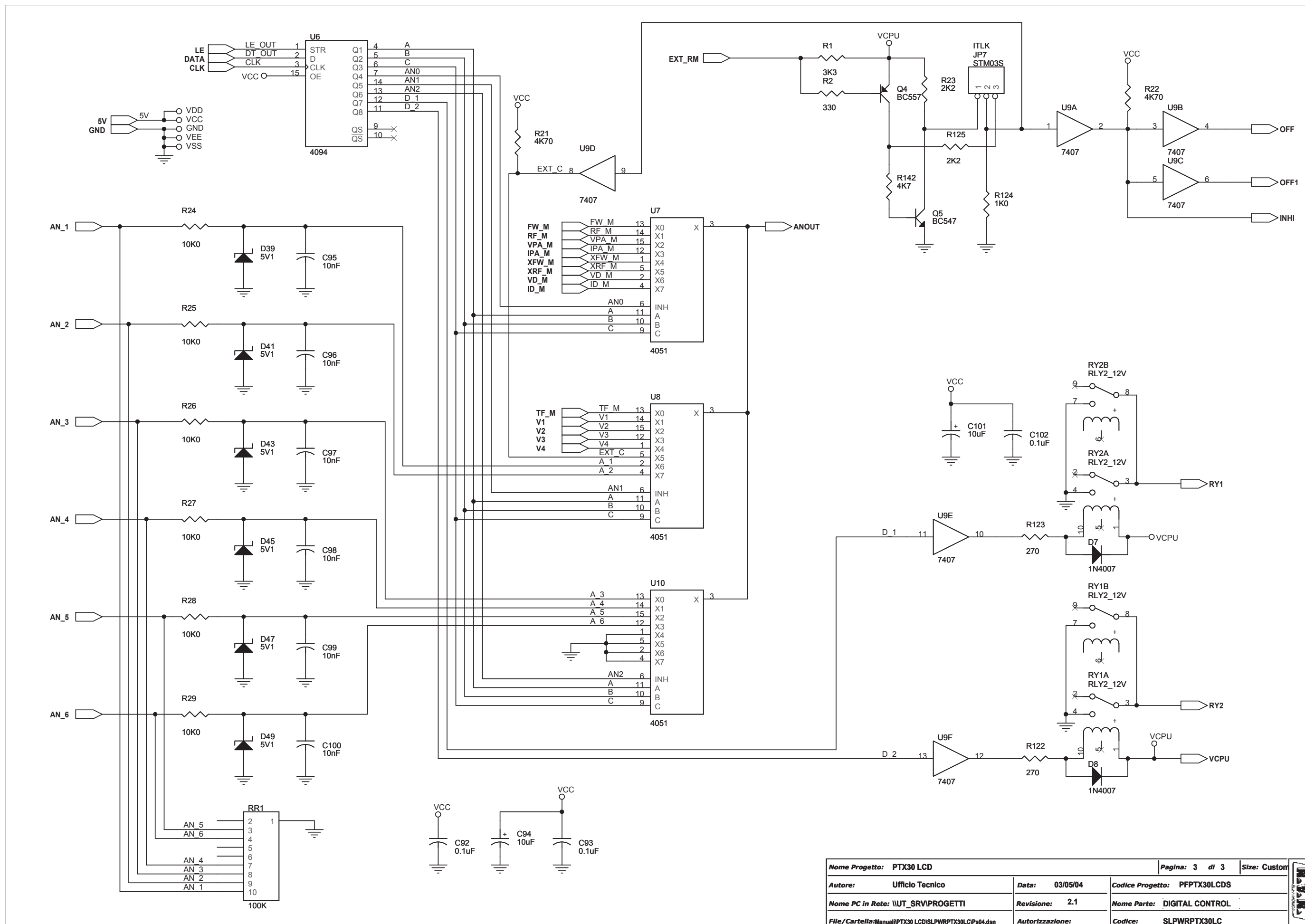
63	1	R38	100H	Res. 1/2W
64	2	R39, R41	1M0	Res. 1/4W 1%
65	1	U1	7407	
66	1	U2	4051	
67	1	U3	74HC138	
68	2	U4, U10	74HC541	
69	2	U5, U6	74HC574	
70	1	U7	7406	
71	1	U9	7805	Stabilizzatore TO220
72	1	U11	MB3773	
73	1	U13	LM358N	
		NOTE		
		Se viene montata la CPU 16 bit:		
		- R22 e R23 diventano da 1K 1/4 1%		
		- U11 diventa NC e vengono cortocircuitati PIN 3 e PIN 8 dello zoccolo		



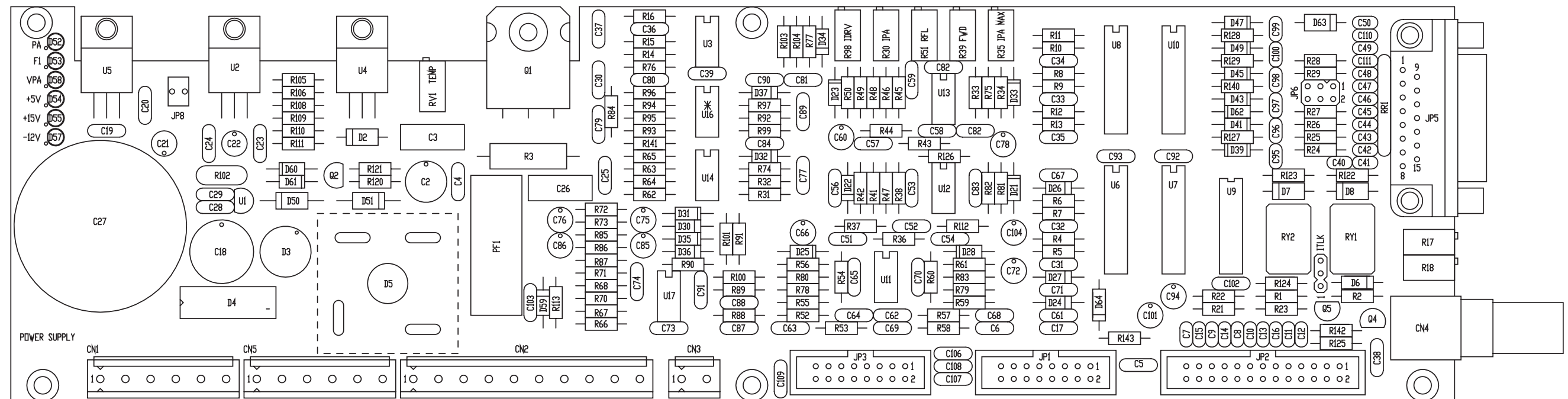
Nome Progetto: PTX30 LCD		Pagina: 1 di 3	Size: A3
Autore: Ufficio Tecnico	Data: 03/05/04	Codice Progetto: PFPPTX30LCDS	
Nome PC in Rete: \UT_SRVPROGETTI	Revisione: 2.1	Nome Parte: POWER SUPPLY	
File/Cartella: Manuali\PTX30 LCD\SLPWRPTX30LC\PS04.dsn	Autorizzazione:	Codice: SLPWRPTX30LC	



Nome Progetto: PTX30 LCD		Pagina: 2 di 3	Size: A3
Autore: Ufficio tecnico	Data: 03/05/04	Codice Progetto: PFPTX30LCDS	
Nome PC in Rete: \WUT_SRV\PROGETTI	Revisione: 2.1	Nome Parte: CONTROL SUPPLY	
File/ Cartella: \Manual\PTX30 LCD\SLPWRPTX30LC\PS04.dsn	Autorizzazione:	Codice: SLPWRPTX30LC	



Nome Progetto: PTX30 LCD		Pagina: 3 di 3	Size: Custom
Autore: Ufficio Tecnico	Data: 03/05/04	Codice Progetto: PFPTX30LCDS	
Nome PC in Rete: \\UT_SRV\PROGETTI	Revisione: 2.1	Nome Parte: DIGITAL CONTROL	
File/Cartella: Manual\PTX30 LCD\SLPWRPTX30LC\Ps04.dsn	Autorizzazione:	Codice: SLPWRPTX30LC	



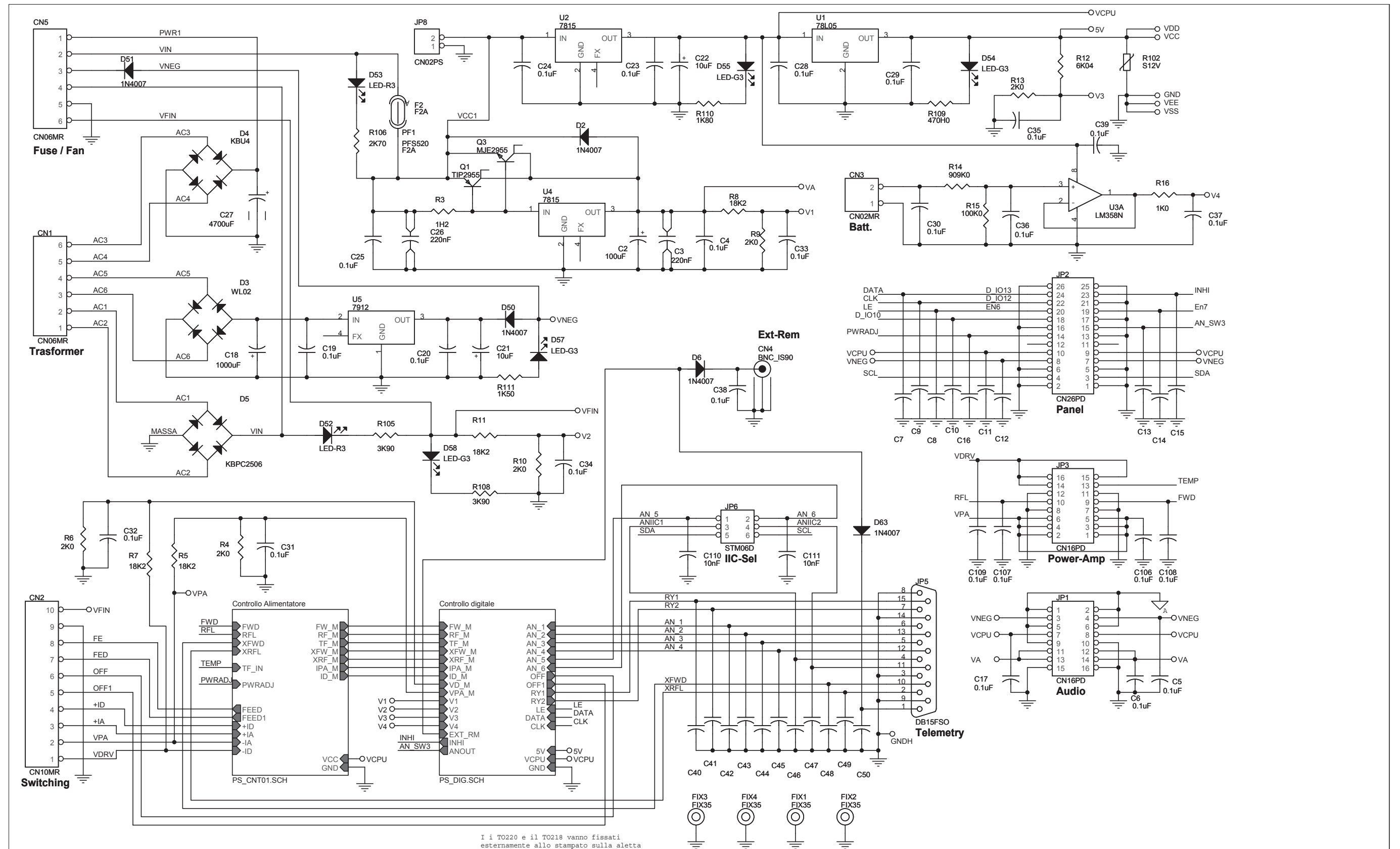
* N.B.:
U16 = N.C.

Nome Progetto: PTX30 LCD		Pagina: 1 di 1	Size: A3
Autore: Ufficio Tecnico		Data: 29/04/04	Codice Progetto: PFPTX30LCDS
Nome PC in Rete: \\UT_SRV\PROGETTI		Revisione: 2.1	Nome Parte: POWER SUPPLY PTX30LCD
File/Cartella: MANUALI\PTX LCD\SLPWRPTX30LC\laypsup.DWG		Autorizzazione:	Codice: SLPWRPTX30LC
Scala: /	Materiale: /	Trattamento: /	Profilo: /

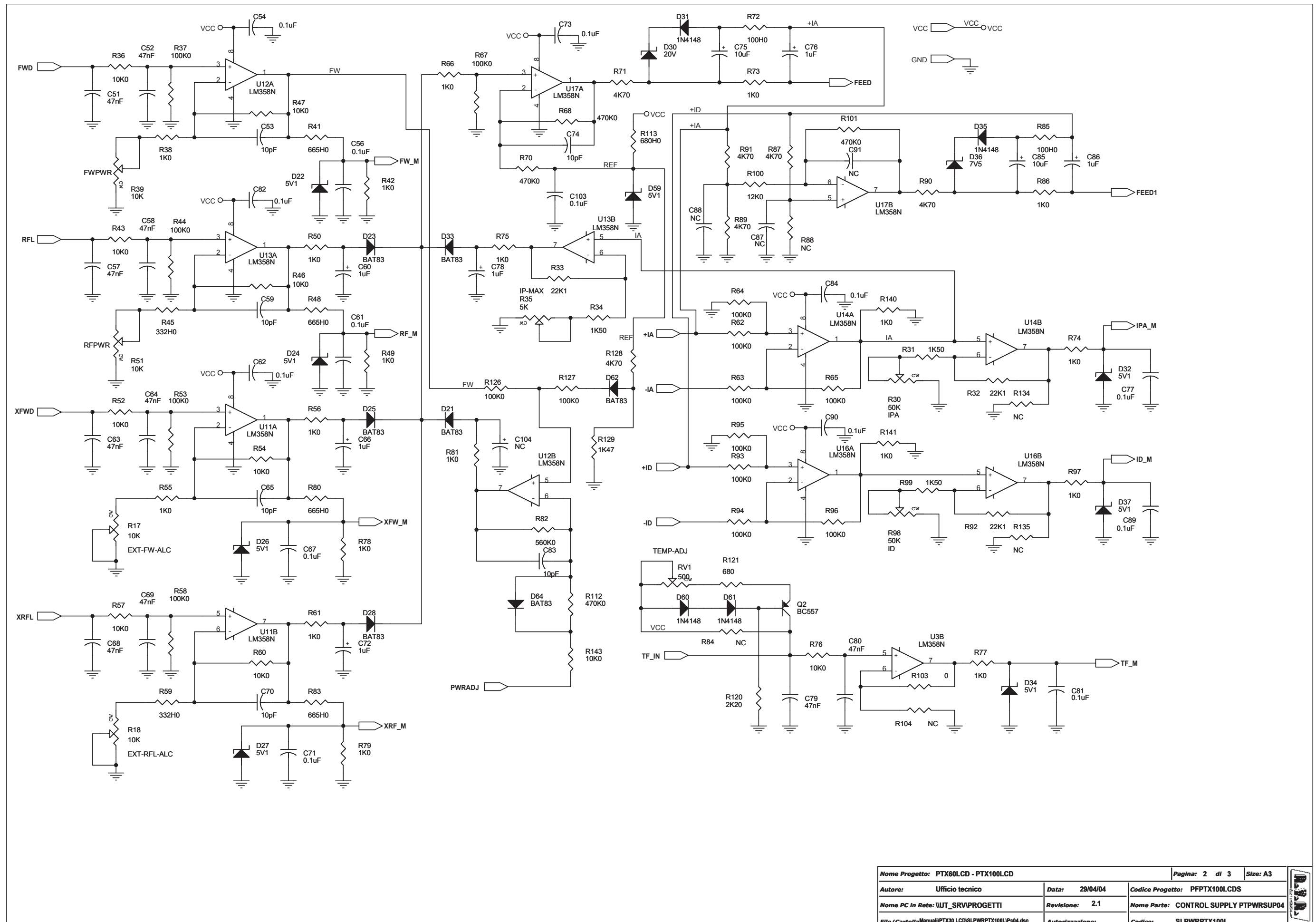
Power supply - Bill of materials			
Item	Q.ty	Reference	Part
1	2	CN1,CN5	CN06MR
2	1	CN2	CN10MR
3	1	CN3	CN02MR
4	1	CN4	BNC_IS90
5	1	C2	100uF
6	2	C26,C3	220nF
7	42	C4,C5,C6,C17,C19,C20,C23, C24,C25,C28,C29,C30,C31, C32,C33,C34,C35,C36,C37, C38,C39,C54,C56,C61,C62, C67,C71,C73,C77,C81,C82, C84,C89,C90,C92,C93,C102, C103,C106,C107,C108,C109	0.1uF
8	10	C7,C8,C9,C10,C13,C14,C15, C16,C46,C47	100pF
9	19	C11,C12,C40,C41,C42,C43, C44,C45,C48,C49,C50,C95, C96,C97,C98,C99,C100, C110,C111	10nF
10	1	C18	1000uF
11	6	C21,C22,C75,C85,C94,C101	10uF
12	1	C27	4700uF
13	10	C51,C52,C57,C58,C63,C64, C68,C69,C79,C80	47nF
14	6	C53,C59,C65,C70,C74,C83	10pF
15	6	C60,C66,C72,C76,C78,C86	1uF
16	10	R84,C87,R88,C88,C91,R104, C104,R134,R135,U16	NC
17	7	D2,D6,D7,D8,D50,D51,D63	1N4007
18	1	D3	WL02
19	1	D4	KBU4
20	1	D5	KBPC2506
21	7	D21,D23,D25,D28,D33,D62, D64	BAT83
22	14	D22,D24,D26,D27,D32,D34, D37,D39,D41,D43,D45,D47, D49,D59	5V1
23	1	D30	24V
24	4	D31,D35,D60,D61	1N4148

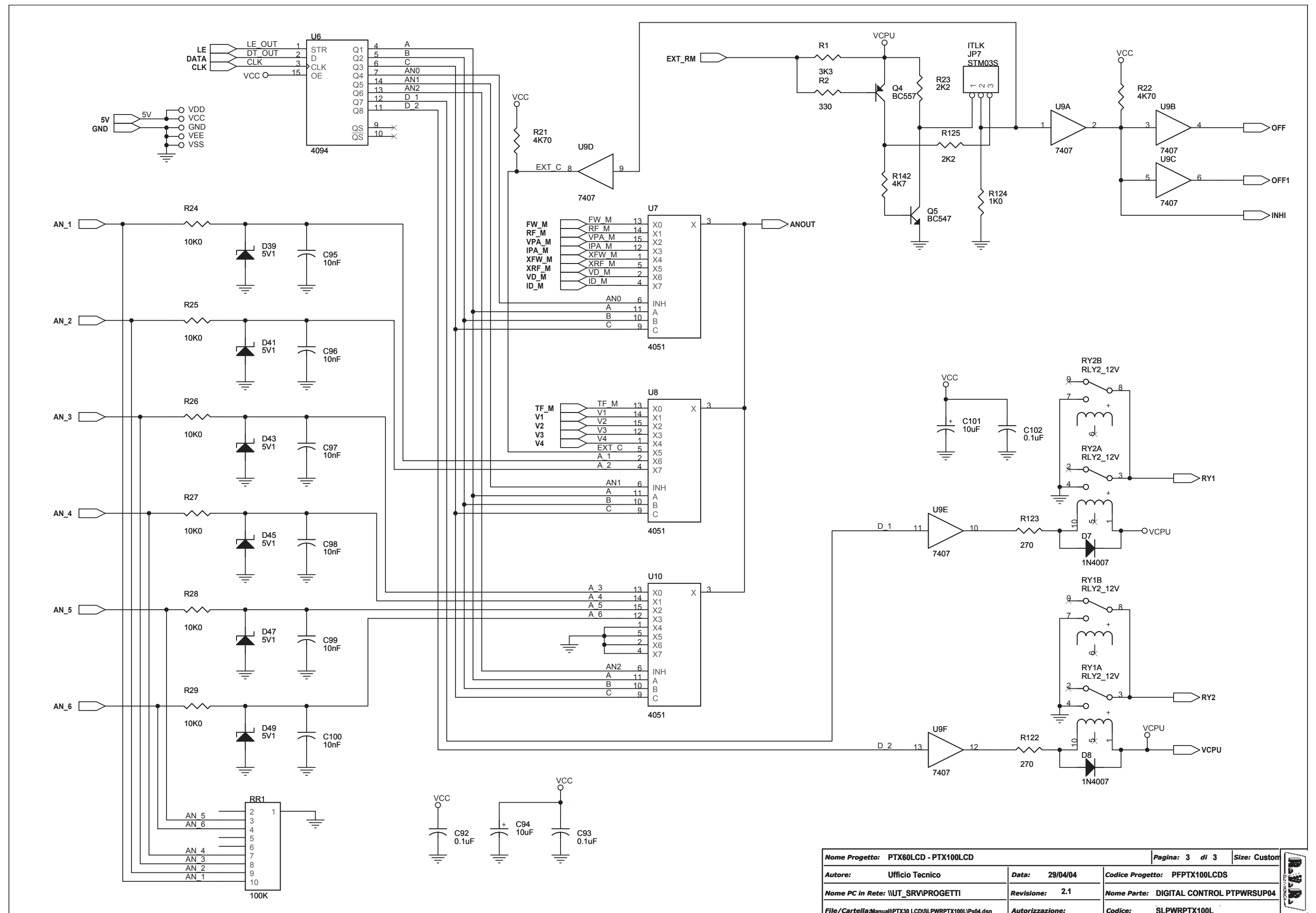
25	1	D36	7V5
26	2	D52,D53	LED-R3
27	4	D54,D55,D57,D58	LED-G3
28	4	FIX1,FIX2,FIX3,FIX4	FIX35
29	1	F2	F2A
30	2	JP1,JP3	CN16PD
31	1	JP2	CN26PD
32	1	JP5	DB15FSO
33	1	JP6	STM06D
34	1	JP7	STM03S
35	1	JP8	CN02PS
36	1	PF1	PFS520
37	1	Q1	TIP2955
38	2	Q4,Q2	BC557
39	1	Q3	MJE2955
40	1	Q5	BC547
41	1	RR1	100K
42	1	RV1	500
43	2	RY1,RY2	RLY2_12V
44	1	R1	3K3
45	1	R2	330
46	1	R3	1H2
47	5	R4,R6,R9,R10,R13	2K0
48	4	R5,R7,R8,R11	18K2
49	1	R12	6K04
50	1	R14	909K0
51	16	R15,R37,R44,R53,R58,R62, R63,R64,R65,R67,R93,R94, R95,R96,R126,R127	100K0
52	21	R16,R38,R42,R49,R50,R55, R56,R61,R66,R73,R74,R75, R77,R78,R79,R81,R86,R97, R124,R140,R141	1K0
53	4	R17,R18,R39,R51	10K
54	8	R21,R22,R71,R87,R89,R90, R91,R128	4K70
55	2	R125,R23	2K2
56	16	R24,R25,R26,R27,R28,R29, R36,R43,R46,R47,R52,R54, R57,R60,R76,R143	10K0
57	2	R98,R30	50K
58	4	R31,R34,R99,R111	1K50
59	3	R32,R33,R92	22K1
60	1	R35	5K

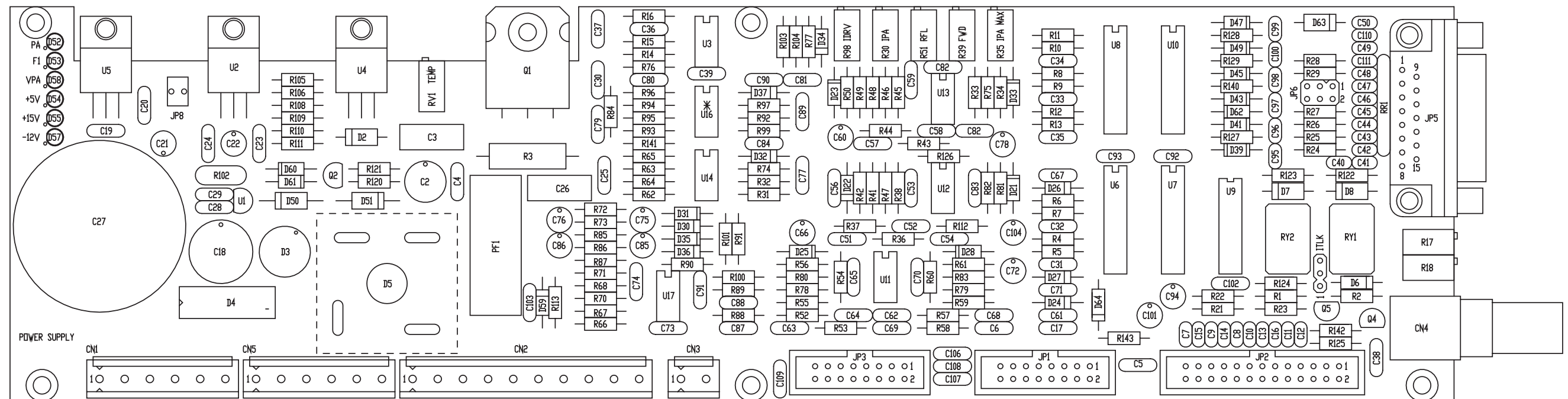
61	4	R41,R48,R80,R83	665H0
62	2	R45,R59	332H0
63	4	R68,R70,R101,R112	470K0
64	2	R72,R85	100H0
65	1	R82	560K0
66	1	R100	12K0
67	1	R102	S12V
68	1	R103	0
69	2	R105,R108	3K90
70	1	R106	2K70
71	1	R109	470H0
72	1	R110	1K80
73	1	R113	680H0
74	1	R120	2K20
75	1	R121	680
76	2	R123,R122	270
77	1	R129	1K47
78	1	R142	4K7
79	1	U1	78L05
80	2	U4,U2	7815
81	6	U3,U11,U12,U13,U14,U17	LM358N
82	1	U5	7912
83	1	U6	4094
84	3	U7,U8,U10	4051
85	1	U9	7407



Nome Progetto: PTX60LCD - PTX100LCD		Pagina: 1 di 3	Size: A3
Autore: Ufficio Tecnico	Data: 29/04/04	Codice Progetto: PFPTX100LCS	
Nome PC in Rete: \WUT_SRV\PROGETTI	Revisione: 2.0	Nome Parte: POWER SUPPLY PTPWRSUP04	
File/Cartella: Manuali\PTX30 LCD\SLPWRPTX100L\Ps04.dsn	Autorizzazione:	Codice: SLPWRPTX100L	







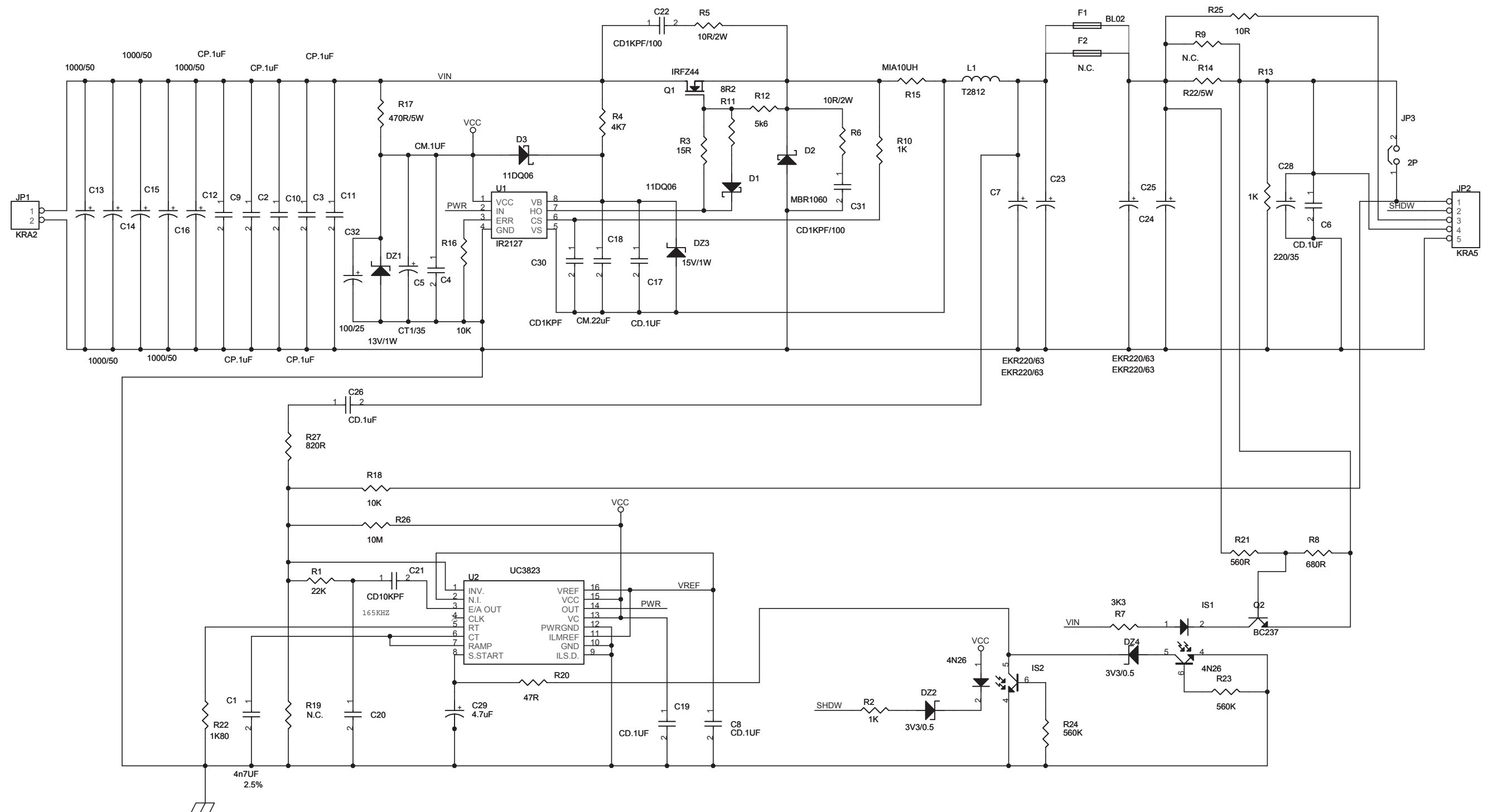
* N.B.:
U16 = N.C.

Nome Progetto: PTX60LCD - PTX100LCD			Pagina: 1 di 1	Size: A3
Autore: Ufficio Tecnico		Data: 29/04/04	Codice Progetto: PFPTX100LCDS	
Nome PC in Rete: \\UT_SRV\PROGETTI		Revisione: 2.1	Nome Parte: POWER SUPPLY PTX30/100LCD	
File/Cartella: MANUALE\PTX LCD\SLPWPTX100L\laypsup.DWG		Autorizzazione:	Codice: SLPWRPTX100L	
Scala: /	Materiale: /	Trattamento: /	Profilo: /	

POWER SUPPLY PTPWRSUP04 Revised: 14/07/04				
SLPWRPTX100L Revision: 3.0				
PTX60LCD - PTX100LCD				
PFPTX100LCDS				
Item	Quan- tity	Reference	Part	Description
1	2	CN1, CN5	CN06MR	Connettore Lumberg KB p. 5mm 6 pin
2	1	CN2	CN10MR	Connettore Lumberg KB p. 5mm 10 pin
3	1	CN3	CN02MR	Connettore Lumberg KB p. 5mm 2 pin
4	1	CN4	BNC_IS90	Connettore BNC metallico 90°
5	1	C2	100uF/25V	Cond. Elettr. Vert.
6	2	C3, C26	220nF	Cond. Poli. p 5/7.5/10mm
7	42	C4, C5, C6, C17, C19, C20, C23, C24, C25, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C54, C56, C61, C62, C67, C71, C73, C77, C81, C82, C84, C89, C90, C92, C93, C102, C103, C106, C107, C108, C109	0.1uF	Cond. ceramico p 5mm
8	10	C7, C8, C9, C10, C13, C14, C15, C16, C46, C47	100pF	
9	19	C11, C12, C40, C41, C42, C43, C44, C45, C48, C49, C50, C95, C96, C97, C98, C99, C100, C110, C111	10nF	
10	1	C18	1000uF/ 35V	
11	6	C21, C22, C75, C85, C94, C101	10uF/35V	Cond. Elettr. Vert.
12	1	C27	4700uF/ 40V	
13	10	C51, C52, C57, C58, C63, C64, C68, C69, C79, C80	47nF	Cond. ceramico p 5mm
14	6	C53, C59, C65, C70, C74, C83	10pF	Cond. ceramico p 5mm
15	6	C60, C66, C72, C76, C78, C86	1uF/50V	Cond. Elettr. Vert.
16	3	C87, C88, C91	NC	Cond. ceramico p 5mm
17	1	C104	NC	Cond. Elettr. Vert.
18	5	D2, D6, D7, D8, D63	1N4007	Diodo in vetro DO35

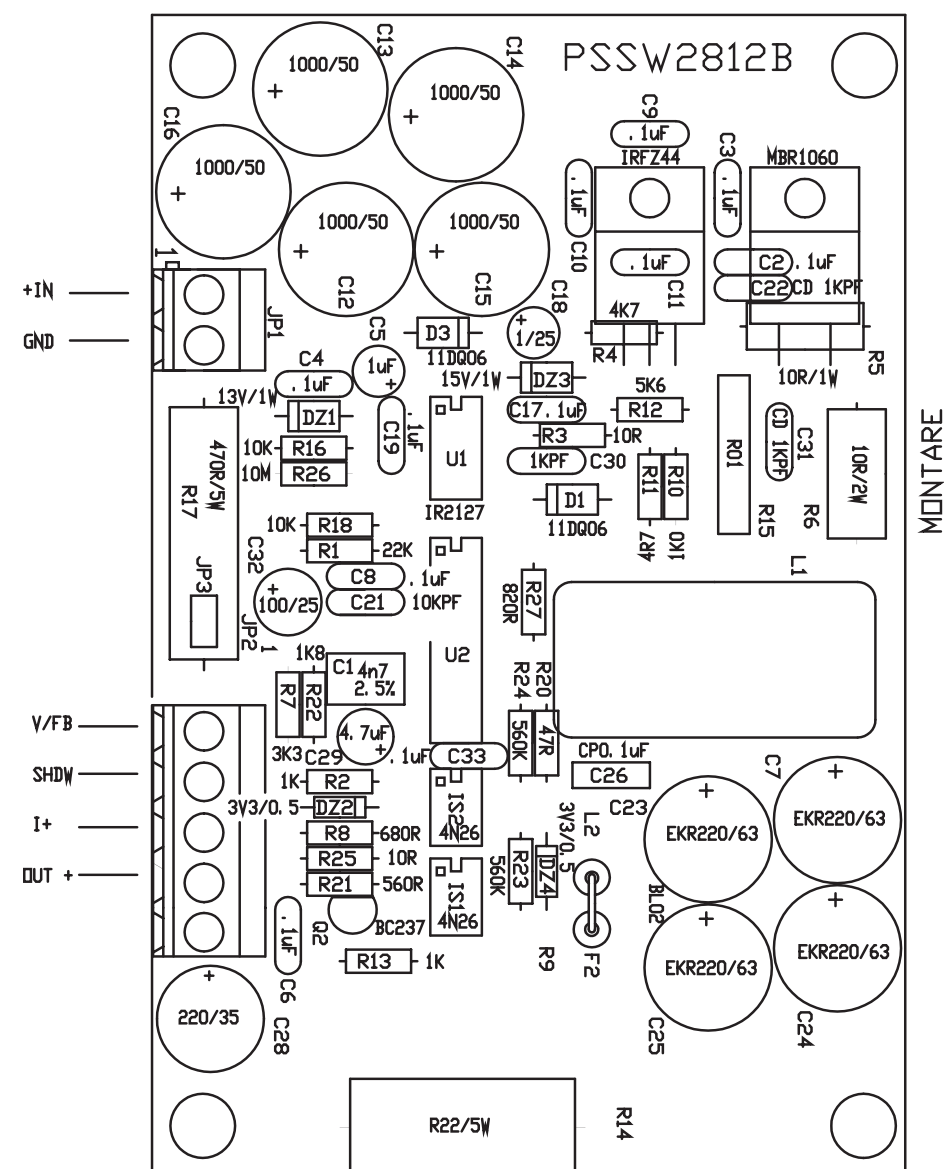
19	1	D3	WL02	Ponte diodi tondi W
20	1	D4	KBU4	Ponte diodi KBL/KBU
21	1	D5	KBPC2504	Ponte diodi KBPC
22	7	D21, D23, D25, D28, D33, D62, D64	BAT83	Diodi Hot carrier DO35
23	14	D22, D24, D26, D27, D32, D34, D37, D39, D41, D43, D45, D47, D49, D59	5V1	1/2W Zener Diode
24	1	D30	24V	1/2W Zener Diode
25	2	D31, D35	1N4148	Diodo in silicio DO35
26	1	D36	7V5	1/2W Zener Diode
27	2	D50, D51	1N4007	Diodo silicio DO41
28	2	D52, D53	LED-R3	LED dia. 3mm
29	4	D54, D55, D57, D58	LED-G3	LED dia. 3mm
30	2	D60, D61	1N4148	
31	4	FIX1, FIX2, FIX3, FIX4	FIX35	Foro fissaggio 3.5mm
32	1	F2	F2A	Fusibile rapido 5x20mm
33	2	JP1, JP3	CN16PD	Connettore 16 poli Flat cs
34	1	JP2	CN26PD	Connettore 26 poli Flat cs
35	1	JP5	DB15FSO	Connettore DB15 femm. cs 90°
36	1	JP6	STM06D	Strip maschio 3+3 pin
37	1	JP7	STM03S	Strip maschio 3 pin
38	1	JP8	CN02PS	Connettore 2 poli Panduit
39	1	PF1	PFS520	Portafusibile 5x20
40	1	Q1	TIP2955	
41	2	Q2, Q4	BC557	Trans. PNP TO92
42	1	Q5	BC547	Trans. NPN TO92
43	1	RR1	100K	Rete resistiva 9R
44	1	RV1	500	Trimmer Rg H 3296X
45	2	RY1, RY2	RLY2_12V	Rele' TQ2
46	1	R1	3K3	Res. 1/4W 5%
47	1	R2	330H	Res. 1/4W 5%
48	1	R3	1H2	Res. 2W 5%
49	5	R4, R6, R9, R10, R13	2K0	Res. 1/4W 1%
50	4	R5, R7, R8, R11	18K2	Res. 1/4W 1%
51	1	R12	6K04	Res. 1/4W 1%
52	1	R14	909K0	Res. 1/4W 1%
53	12	R15, R37, R44, R53, R58, R64, R65, R67, R95, R96, R126, R127	100K0	Res. 1/4W 1%
54	21	R16, R38, R42, R49, R50, R55, R56, R61, R66, R73, R74, R75, R77, R78, R79, R81, R86, R97, R124, R140, R141	1K0	Res. 1/4W 1%

55	4	R17, R18, R39, R51	10K	Trimmer Rg H 3296X
56	8	R21, R22, R71, R87, R89, R90, R91, R128	4K70	Res. 1/4W 1%
57	2	R23, R125	2K2	Res. 1/4W 1%
58	16	R24, R25, R26, R27, R28, R29, R36, R43, R46, R47, R52, R54, R57, R60, R76, R143	10K0	Res. 1/4W 1%
59	2	R30, R98	50K	Trimmer Rg H 3296X
60	4	R31, R34, R99, R111	1K50	Res. 1/4W 1%
61	3	R32, R33, R92	22K1	Res. 1/4W 1%
62	1	R35	5K	Trimmer Rg H 3296X
63	4	R41, R48, R80, R83	665H0	Res. 1/4W 1%
64	2	R45, R59	330H	Res. 1/4W 1%
65	4	R62, R63, R93, R94	200K0	Res. 1/4W 1%
66	4	R68, R70, R101, R112	470K0	Res. 1/4W 1%
67	2	R72, R85	100H0	Res. 1/4W 1%
68	1	R82	560K0	Res. 1/4W 1%
69	5	R84, R88, R104, R134, R135	NC	Res. 1/4W 1%
70	1	R100	12K0	Res. 1/4W 1%
71	1	R102	S12V	Varistor
72	1	R103	0	Res. 1/4W 1%
73	2	R105, R108	3K90	Res. 1/4W 1%
74	1	R106	2K70	Res. 1/4W 1%
75	1	R109	470H0	Res. 1/4W 1%
76	1	R110	1K80	Res. 1/4W 1%
77	2	R113, R121	680H	Res. 1/4W 1%
78	1	R120	2K20	Res. 1/4W 1%
79	2	R122, R123	270	Res. 1/4W 5%
80	1	R129	1K47	Res. 1/4W 1%
81	1	R142	4K70	Res. 1/4W 5%
82	1	U1	78L05	Stabilizzatore TO92
83	2	U2, U4	7815	Stabilizzatore TO220
84	6	U3, U11, U12, U13, U14, U17	LM358N	
85	1	U5	7912	Stabilizzatore TO220
86	1	U6	4094	Shift Reg. DIP16
87	3	U7, U8, U10	4051	
88	1	U9	7407	
89	1	U16	NC	



Nome Progetto: PTX30 LCD		Pagina: 1 di 1	Size: A3
Autore: Ufficio Tecnico	Data: 23/09/03	Codice Progetto: PFPTX30LCDS	
Nome PC in Rete: \UT_SRV\PROGETTI	Revisione: 2.1	Nome Parte: SWITCHING POWER SUPPLY	
File/Cartella: MANUAL\PTX30_LCD\SLPSSW28123A\PS2812.DSN	Autorizzazione:	Codice:	SLPSSW28123A

3A VERSION
PTX30 LCD



Nome Progetto: PTX30 LCD		Pagina: 1 di 1	Size: A4
Autore: Ufficio Tecnico		Data: 28/04/04	Codice Progetto: PFPTX30LCDS
Nome PC in Rete: \\UT_SRV\PROGETTI		Revisione: 2.2	Nome Parte: SWITCHING POWER SUPPLY LAYOUT
File/Cartella: MANUALI\PTX30 LCD\SLPSSW28123A\PSSW28123A.DWG		Autorizzazione:	Codice: SLPSSW28123A
Scala: /	Materiale: /	Trattamento: /	Profilo: /

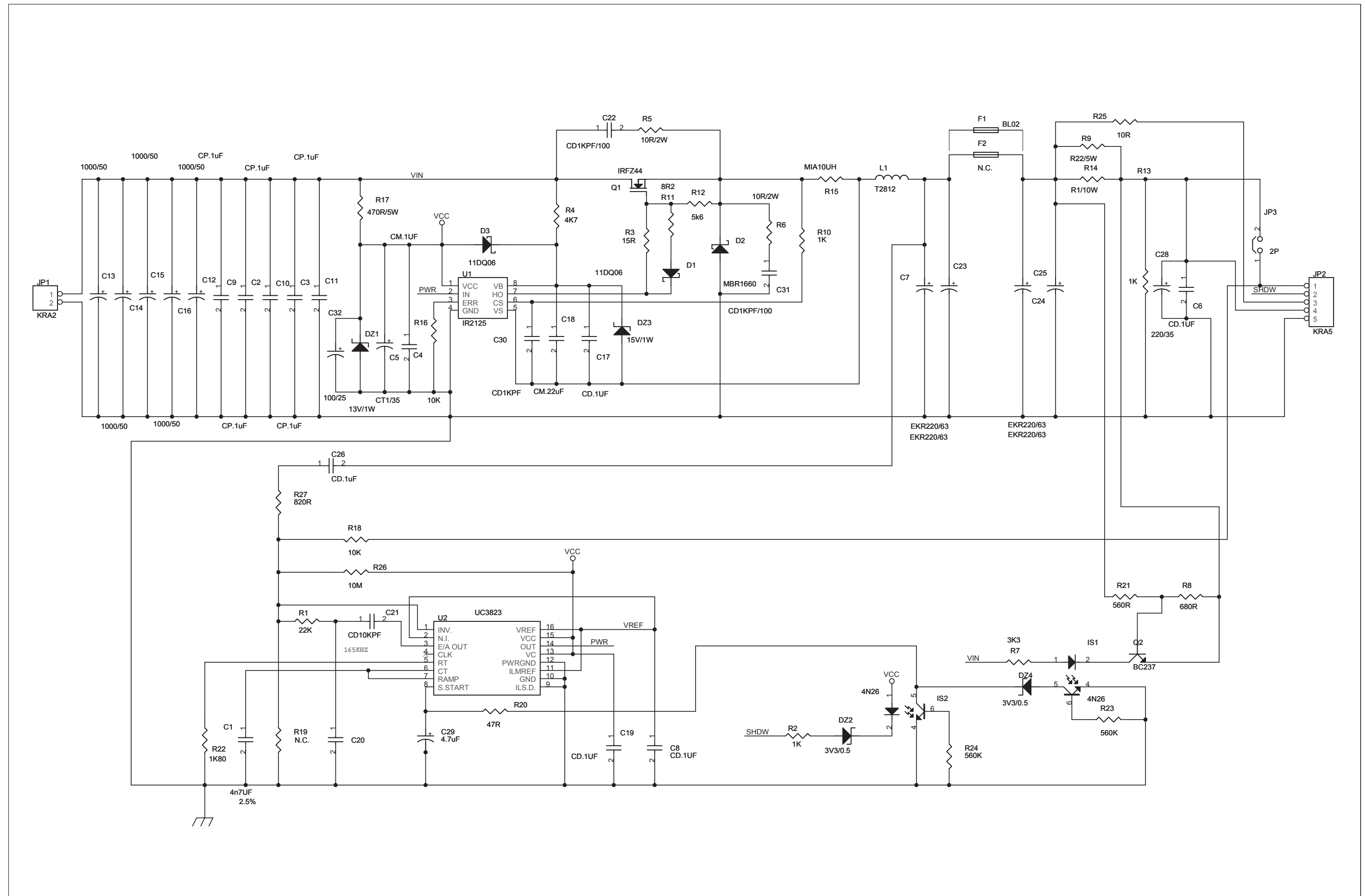
Scheda Madre Power Supply			
PSSW 28123A			
Item	Q.ty	Reference	Part
1	1	C1	4n7UF
2	5	C2,C3,C9,C10,C11	CP.1uF
3	1	C4	CM.1UF
4	1	C5	CT1/35
5	5	C6,C8,C17,C19,C26	CD.1uF
6	4	C7,C23,C24,C25	EKR220/63
7	5	C12,C13,C14,C15,C16	1000/50
8	1	C18	CM.22uF
9	1	C20	CAP NP
10	1	C21	CD10KPF
11	2	C22,C31	CD1KPF/100
12	1	C28	220/35
13	1	C29	4.7uF
14	1	C30	CD1KPF
15	1	C32	100/25
16	1	DZ1	13V/1W
17	2	DZ2,DZ4	3V3/0.5
18	1	DZ3	15V/1W
19	2	D1,D3	11DQ06
20	1	D2	MBR1060
21	1	F1	BL02
22	3	F2,R9,R19	N.C.
23	2	IS2,IS1	4N26
24	1	JP1	KRA2
25	1	JP2	KRA5
26	1	JP3	2P
27	1	L1	T2812
28	1	Q1	IRFZ44
29	1	Q2	BC237
30	1	R1	22K
31	3	R2,R10,R13	1K
32	2	R25,R3	10R
33	1	R4	4K7
34	2	R5,R6	10R/2W
35	1	R7	3K3
36	1	R8	680R
37	1	R11	4R7
38	1	R12	5k6

39	1	R14	R22/5W
40	1	R15	MIA10UH
41	2	R16,R18	10K
42	1	R17	470R/5W
43	1	R20	47R
44	1	R21	560R
45	1	R22	1K80
46	2	R23,R24	560K
47	1	R26	10M
48	1	R27	820R
49	1	U1	IR2127
50	1	U2	UC3823
51	1	C1	4n7UF
52	5	C2,C3,C9,C10,C11	CP.1uF
53	1	C4	CM.1UF
54	1	C5	CT1/35
55	5	C6,C8,C17,C19,C26	CD.1uF
56	4	C7,C23,C24,C25	EKR220/63
57	5	C12,C13,C14,C15,C16	1000/50
58	1	C18	CM.22uF
59	1	C20	CAP NP
60	1	C21	CD10KPF
61	2	C22,C31	CD1KPF/100
62	1	C28	220/35
63	1	C29	4.7uF
64	1	C30	CD1KPF
65	1	C32	100/25
66	1	DZ1	13V/1W
67	2	DZ2,DZ4	3V3/0.5
68	1	DZ3	15V/1W
69	2	D1,D3	11DQ06
70	1	D2	MBR1060
71	1	F1	BL02
72	1	F2	N.C.
73	2	IS1,IS2	4N26
74	1	JP1	KRA2
75	1	JP2	KRA5
76	1	JP3	2P
77	1	L1	T2812
78	1	Q1	IRFZ44
79	1	Q2	BC237
80	1	R1	22K
81	3	R2,R10,R13	1K
82	2	R3,R25	10R

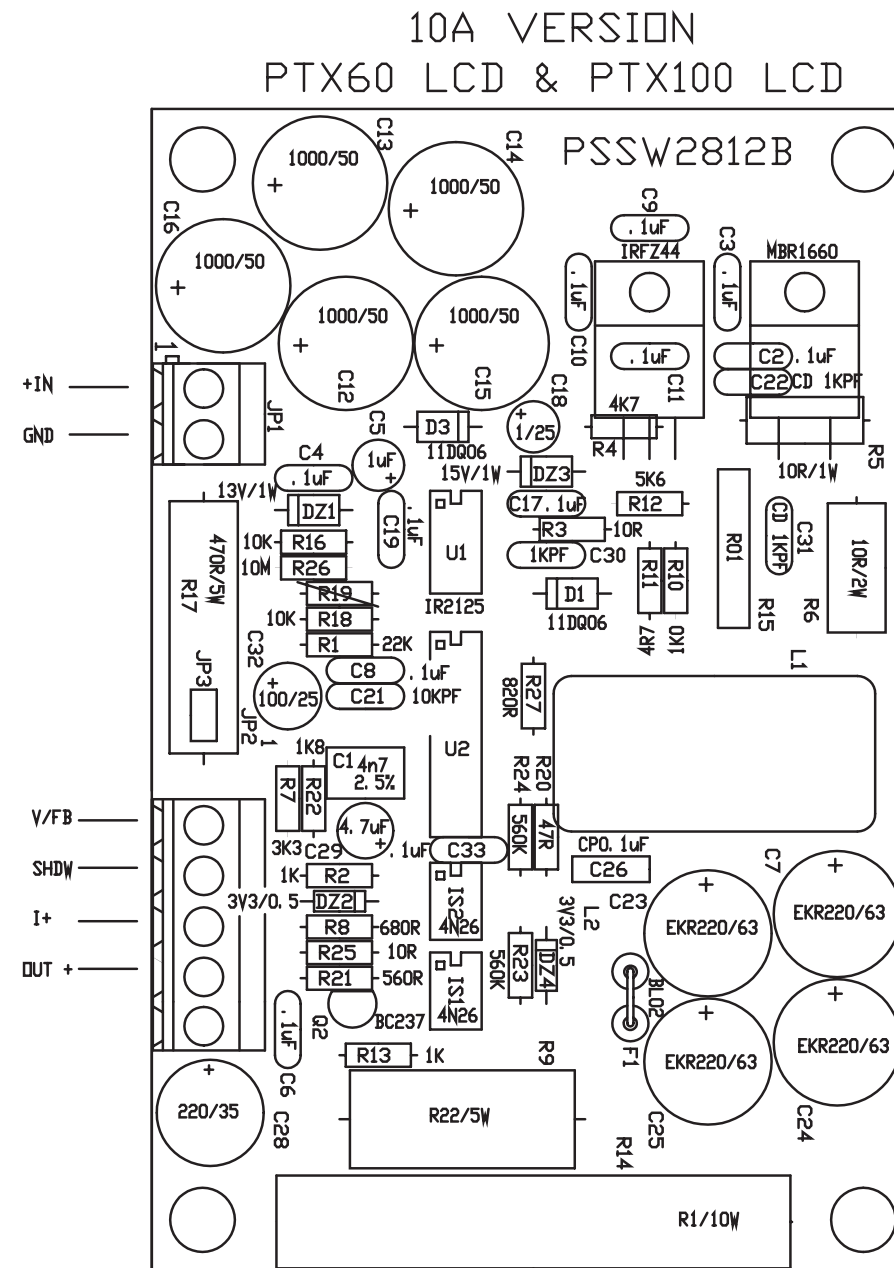
PSSW28123/1

83	1	R4	4K7
84	2	R5,R6	10R/2W
85	1	R7	3K3
86	1	R8	680R
87	2	R9,R14	R22/5W
88	1	R11	4R7
89	1	R12	5k6
90	1	R15	MIA10UH
91	2	R16,R18	10K
92	1	R17	470R/5W
93	1	R19	2K2
94	1	R20	47R
95	1	R21	560R
96	1	R22	1K80
97	2	R23,R24	560K
98	1	R26	10M
99	1	R27	820R
100	1	U1	IR2125
101	1	U2	UC3823
102	1	C1	4n7UF
103	5	C2,C3,C9,C10,C11	CP.1uF
104	1	C4	CM.1UF
105	1	C5	CT1/35
106	5	C6,C8,C17,C19,C26	CD.1uF
107	4	C7,C23,C24,C25	EKR220/63
108	5	C12,C13,C14,C15,C16	1000/50
109	1	C18	CM.22uF
110	1	C20	CAP NP
111	1	C21	CD10KPF
112	2	C22,C31	CD1KPF/100
113	1	C28	220/35
114	1	C29	4.7uF
115	1	C30	CD1KPF
116	1	C32	100/25
117	1	DZ1	13V/1W
118	2	DZ2,DZ4	3V3/0.5
119	1	DZ3	15V/1W
120	2	D3,D1	11DQ06
121	1	D2	MBR1060
122	1	F1	BL02
123	2	R19,F2	N.C.
124	2	IS1,IS2	4N26
125	1	JP1	KRA2
126	1	JP2	KRA5/6

127	1	JP3	2P
128	1	L1	T2812
129	1	Q1	IRFZ44
130	1	Q2	BC237
131	1	R1	22K
132	3	R2,R10,R13	1K
133	2	R3,R25	10R
134	1	R4	4K7
135	2	R5,R6	10R/2W
136	1	R7	3K3
137	1	R8	680R
138	1	R9	R22/5W
139	1	R11	4R7
140	1	R12	5k6
141	1	R14	R1/10W
142	1	R15	MIA10UH
143	2	R16,R18	10K
144	1	R17	470R/5W
145	1	R20	47R
146	1	R21	560R
147	1	R22	1K80
148	2	R23,R24	560K
149	1	R26	10M
150	1	R27	820R
151	1	U1	IR2127
152	1	U2	UC3823



Nome Progetto: PTX60LCD - PTX100LCD		Pagina: 1 di 1	Size: A3
Autore: Ufficio Tecnico	Data: 28/04/04	Codice Progetto: PFPTX100LDCS	
Nome PC in Rete: \\\UT_SRV\PROGETTI	Revisione: 2.2	Nome Parte: SWITCHING POWER SUPPLY	
File/Cartella: \MANUAL\PTX30 LCD\SLPSSW281210\PS281210.DSN	Autorizzazione:	Codice: SLPSSW281210	



Nome Progetto: PTX60LCD - PTX100LCD		Pagina: 1 di 1	Size: A4
Autore: Ufficio Tecnico		Data: 28/04/04	Codice Progetto: PFPTX100LCDS
Nome PC in Rete: \\UT_SRV\PROGETTI		Revisione: 2.2	Nome Parte: SWITCHING POWER SUPPLY LAYOUT
File/Cartella: MANUALI\PTX30 LCD\SLPSSW281210\PSSW281210.DWG		Autorizzazione:	Codice: SLPSSW281210
Scala: /	Materiale: /	Trattamento: /	Profilo: /

PSSW281210

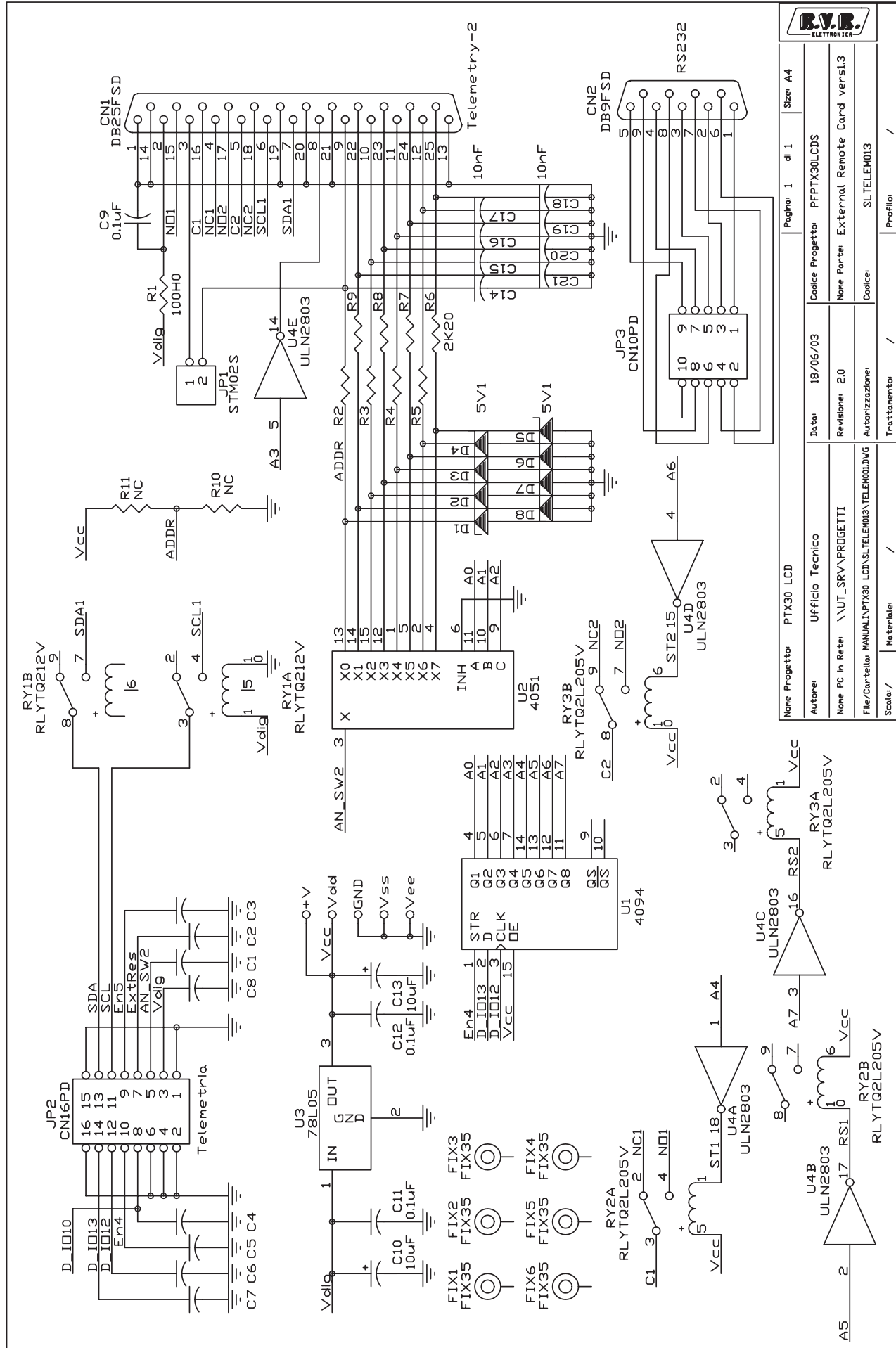
Scheda Madre Power Supply			
PSSW 281210			
Item	Q.ty	Reference	Part
1	1	C1	4n7UF
2	5	C2,C3,C9,C10,C11	CP.1uF
3	1	C4	CM.1UF
4	1	C5	CT1/35
5	5	C6,C8,C17,C19,C26	CD.1uF
6	4	C7,C23,C24,C25	EKR220/63
7	5	C12,C13,C14,C15,C16	1000/50
8	1	C18	CM.22uF
9	1	C20	CAP NP
10	1	C21	CD10KPF
11	2	C22,C31	CD1KPF/100
12	1	C28	220/35
13	1	C29	4.7uF
14	1	C30	CD1KPF
15	1	C32	100/25
16	1	DZ1	13V/1W
17	2	DZ2,DZ4	3V3/0.5
18	1	DZ3	15V/1W
19	2	D1,D3	11DQ06
20	1	D2	MBR1660
21	1	F1	BL02
22	3	F2,R9,R19	N.C.
23	2	IS2,IS1	4N26
24	1	JP1	KRA2
25	1	JP2	KRA5
26	1	JP3	2P
27	1	L1	T2812
28	1	Q1	IRFZ44
29	1	Q2	BC237
30	1	R1	22K
31	3	R2,R10,R13	1K
32	2	R25,R3	10R
33	1	R4	4K7
34	2	R5,R6	10R/2W
35	1	R7	3K3
36	1	R8	680R
37	1	R9	R22/5W
38	1	R11	4R7

39	1	R12	5k6
40	1	R14	R1/10W
41	1	R15	MIA10UH
42	2	R16,R18	10K
43	1	R17	470R/5W
44	1	R20	47R
45	1	R21	560R
46	1	R22	1K80
47	2	R23,R24	560K
48	1	R26	10M
49	1	R27	820R
50	1	U1	IR2127
51	1	U2	UC3823
52	1	C1	4n7UF
53	5	C2,C3,C9,C10,C11	CP.1uF
54	1	C4	CM.1UF
55	1	C5	CT1/35
56	5	C6,C8,C17,C19,C26	CD.1uF
57	4	C7,C23,C24,C25	EKR220/63
58	5	C12,C13,C14,C15,C16	1000/50
59	1	C18	CM.22uF
60	1	C20	CAP NP
61	1	C21	CD10KPF
62	2	C22,C31	CD1KPF/100
63	1	C28	220/35
64	1	C29	4.7uF
65	1	C30	CD1KPF
66	1	C32	100/25
67	1	DZ1	13V/1W
68	2	DZ2,DZ4	3V3/0.5
69	1	DZ3	15V/1W
70	2	D1,D3	11DQ06
71	1	D2	MBR1060
72	1	F1	BL02
73	1	F2	N.C.
74	2	IS1,IS2	4N26
75	1	JP1	KRA2
76	1	JP2	KRA5
77	1	JP3	2P
78	1	L1	T2812
79	1	Q1	IRFZ44
80	1	Q2	BC237
81	1	R1	22K
82	3	R2,R10,R13	1K

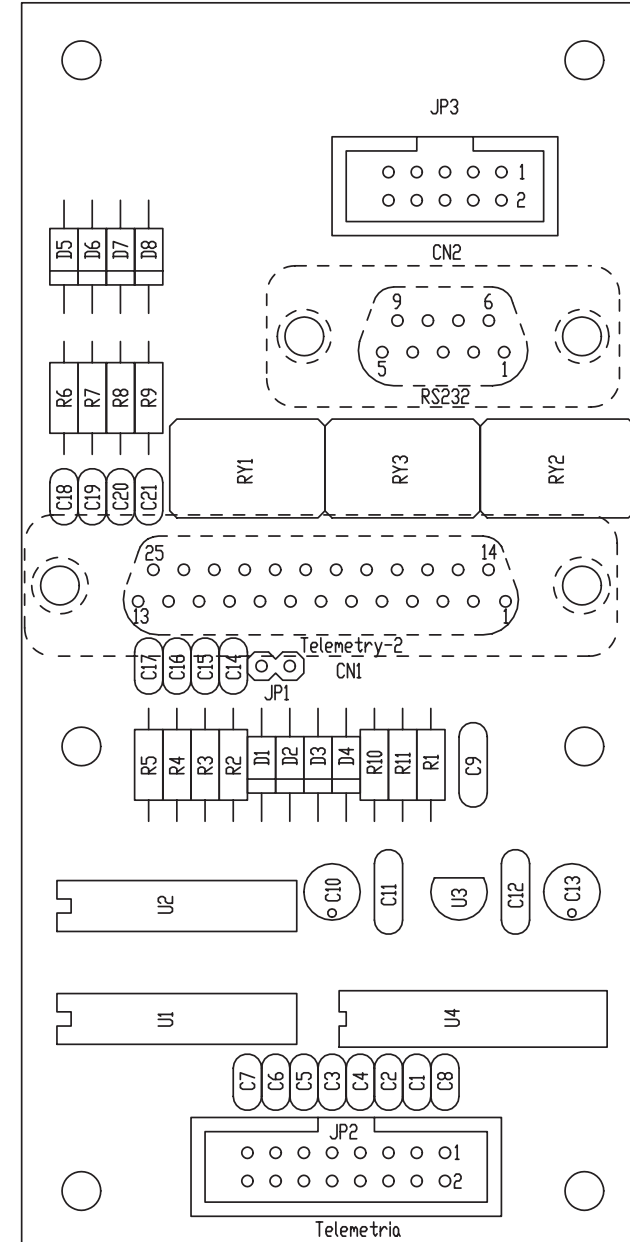
PSSW281210

83	2	R3,R25	10R
84	1	R4	4K7
85	2	R5,R6	10R/2W
86	1	R7	3K3
87	1	R8	680R
88	2	R9,R14	R22/5W
89	1	R11	4R7
90	1	R12	5k6
91	1	R15	MIA10UH
92	2	R16,R18	10K
93	1	R17	470R/5W
94	1	R19	2K2
95	1	R20	47R
96	1	R21	560R
97	1	R22	1K80
98	2	R23,R24	560K
99	1	R26	10M
100	1	R27	820R
101	1	U1	IR2125
102	1	U2	UC3823
103	1	C1	4n7UF
104	5	C2,C3,C9,C10,C11	CP.1uF
105	1	C4	CM.1UF
106	1	C5	CT1/35
107	5	C6,C8,C17,C19,C26	CD.1uF
108	4	C7,C23,C24,C25	EKR220/63
109	5	C12,C13,C14,C15,C16	1000/50
110	1	C18	CM.22uF
111	1	C20	CAP NP
112	1	C21	CD10KPF
113	2	C22,C31	CD1KPF/100
114	1	C28	220/35
115	1	C29	4.7uF
116	1	C30	CD1KPF
117	1	C32	100/25
118	1	DZ1	13V/1W
119	2	DZ2,DZ4	3V3/0.5
120	1	DZ3	15V/1W
121	2	D3,D1	11DQ06
122	1	D2	MBR1660
123	1	F1	BL02
124	2	R19,F2	N.C.
125	2	IS1,IS2	4N26
126	1	JP1	KRA2

127	1	JP2	KRA5/6
128	1	JP3	2P
129	1	L1	T2812
130	1	Q1	IRFZ44
131	1	Q2	BC237
132	1	R1	22K
133	3	R2,R10,R13	1K
134	2	R3,R25	10R
135	1	R4	4K7
136	2	R5,R6	10R/2W
137	1	R7	3K3
138	1	R8	680R
139	1	R9	R22/5W
140	1	R11	4R7
141	1	R12	5k6
142	1	R14	R1/10W
143	1	R15	MIA10UH
144	2	R16,R18	10K
145	1	R17	470R/5W
146	1	R20	47R
147	1	R21	560R
148	1	R22	1K80
149	2	R23,R24	560K
150	1	R26	10M
151	1	R27	820R
152	1	U1	IR2125
153	1	U2	UC3823



Nome Progetto		PTX30 LCD		Pagina 1 di 1		Size: A4	
Autore:		Ufficio Tecnico		Data:		18/06/03	
Nome PC in Rete:		\\UT_SRV\PROGETTI		Revisione:		2.0	
File/Cartella:		MANUAL\PTX30 LCD\SLTELEM013\TELEM01.DWG		Autorizzazione:		Codice:	
Scala:		/		Trattamento:		/	
Nome Progetto		PTX30 LCD		Codice Progetto		PFPTX30LCDIS	
Autore		Ufficio Tecnico		Nome Parte		External Remote Card vers1.3	
Nome PC in Rete		\\UT_SRV\PROGETTI		Revisione		2.0	
File/Cartella		MANUAL\PTX30 LCD\SLTELEM013\TELEM01.DWG		Autorizzazione		Codice	
Scala		/		Trattamento		/	
Nome Progetto		PTX30 LCD		Codice Progetto		PFPTX30LCDIS	
Autore		Ufficio Tecnico		Nome Parte		External Remote Card vers1.3	
Nome PC in Rete		\\UT_SRV\PROGETTI		Revisione		2.0	
File/Cartella		MANUAL\PTX30 LCD\SLTELEM013\TELEM01.DWG		Autorizzazione		Codice	
Scala		/		Trattamento		/	

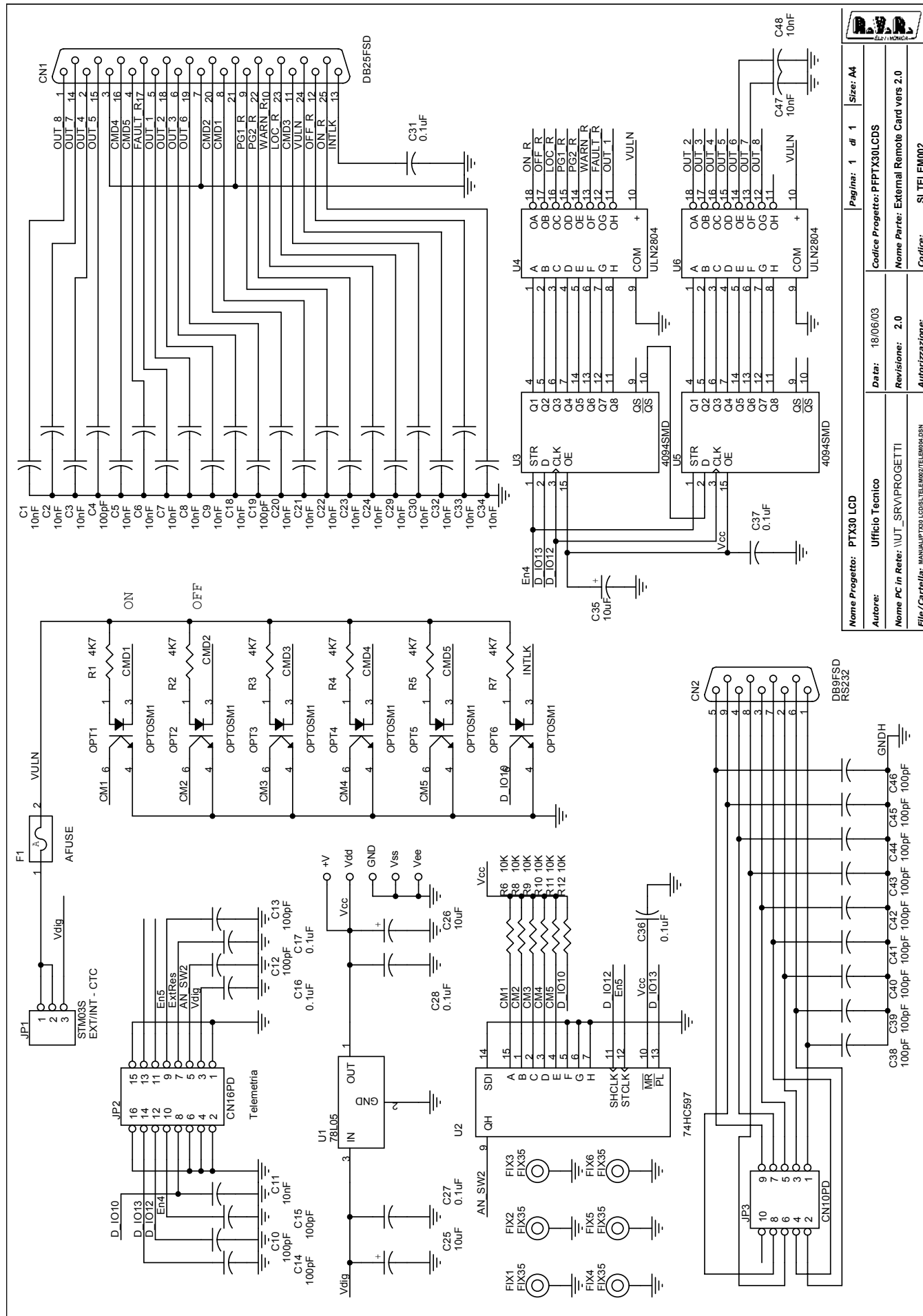


Nome Progetto		PTX30 LCD		Pagina 1 di 1		Size: A4	
Autore:		Ufficio Tecnico		Data:		18/06/03	
Nome PC in Rete:		\\UT_SRV\PROGETTI		Revisione:		2.0	
File/Cartella:		MANUAL\PTX30 LCD\SLTELEM013\LAYTELEM.DWG		Autorizzazione:		Codice:	
Scala:		/		Trattamento:		/	
Nome Progetto		PTX30 LCD		Codice Progetto		PFPTX30LCDIS	
Autore		Ufficio Tecnico		Nome Parte		External Remote Card vers1.3 Layout	
Nome PC in Rete		\\UT_SRV\PROGETTI		Revisione		2.0	
File/Cartella		MANUAL\PTX30 LCD\SLTELEM013\LAYTELEM.DWG		Autorizzazione		Codice	
Scala		/		Trattamento		/	

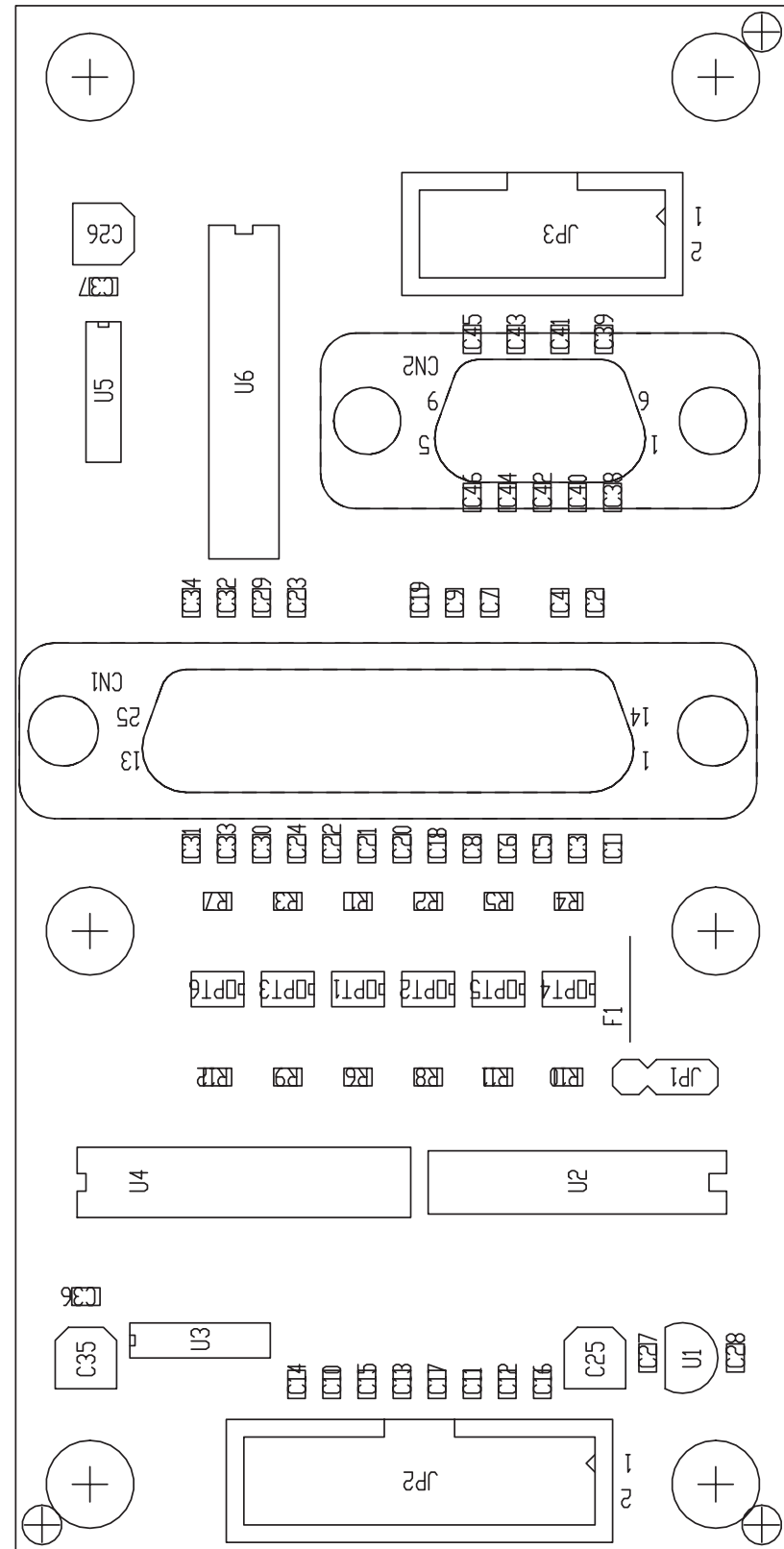
SLTELEM013

Telemetry card			
SLTELEM00001			
Version:1,1			
7/6/2001			
Item	Refe- rence	Part	Description
1	CS1	CS	Circuito stampato
2	C1	100pF	Cond. ceramico p. 2.54mm
3	C2	100pF	Cond. ceramico p. 2.54mm
4	C3	100pF	Cond. ceramico p. 2.54mm
5	C4	100pF	Cond. ceramico p. 2.54mm
6	C5	100pF	Cond. ceramico p. 2.54mm
7	C6	100pF	Cond. ceramico p. 2.54mm
8	C7	100pF	Cond. ceramico p. 2.54mm
9	C8	10nF	Cond. ceramico p. 2.54mm
10	U1	4094	CI digitale
11	U2	4051	CI digitale
12	R1	100H0	Res. 1/4 W 1%
13	JP1	STM02S	Strip M 2.54 2 pin.
14	JP2	CN16PD	Conn. M cs 2x2.54mm a 16 p.
15	C10	10uF	Cond. el. ver. 16V p. 2.5mm
16	C9	0.1uF	Cond. ceramico p. 5mm
17	C11	0.1uF	Cond. ceramico p. 5mm
18	C12	0.1uF	Cond. ceramico p. 5mm
19	C13	10uF	Cond. el. ver. 16V p. 2.5mm
20	RY1	RLYTQ212V	Rele' con bobina a 2V V
21	RY2	RLYTQ2L205V	Rele' con bobina a 5V V
22	RY3	RLYTQ2L205V	Rele' con bobina a 5V V
23	D1	5V1	Diodo Zener 1/2 W
24	D2	5V1	Diodo Zener 1/2 W
25	D3	5V1	Diodo Zener 1/2 W
26	D4	5V1	Diodo Zener 1/2 W
27	D5	5V1	Diodo Zener 1/2 W
28	D6	5V1	Diodo Zener 1/2 W
29	D7	5V1	Diodo Zener 1/2 W
30	D8	5V1	Diodo Zener 1/2 W
31	R2	2K20	Res. 1/4 W 1%
32	R3	2K20	Res. 1/4 W 1%
33	R4	2K20	Res. 1/4 W 1%
34	R5	2K20	Res. 1/4 W 1%
35	R6	2K20	Res. 1/4 W 1%

36	R7	2K20	Res. 1/4 W 1%
37	R8	2K20	Res. 1/4 W 1%
38	R9	2K20	Res. 1/4 W 1%
39	C14	10nF	Cond. ceramico p. 2.54mm
40	C16	10nF	Cond. ceramico p. 2.54mm
41	C17	10nF	Cond. ceramico p. 2.54mm
42	C18	10nF	Cond. ceramico p. 2.54mm
43	C19	10nF	Cond. ceramico p. 2.54mm
44	C20	10nF	Cond. ceramico p. 2.54mm
45	C21	10nF	Cond. ceramico p. 2.54mm
46	R10	NC	Non connesso
47	R11	NC	Non connesso
48	JP3	CN10PD	Conn. M cs 2x2.54mm a 10 p.
49	U4	ULN2803	CI digitale
50	CN1	DB25FSD	Conn. DB25 F stampato a 90°
51	CN2	DB9FSD	Conn. DB9F SD
52	C15	10nF	Cond. ceramico p. 2.54mm
53	U3	78L05	CI lineare

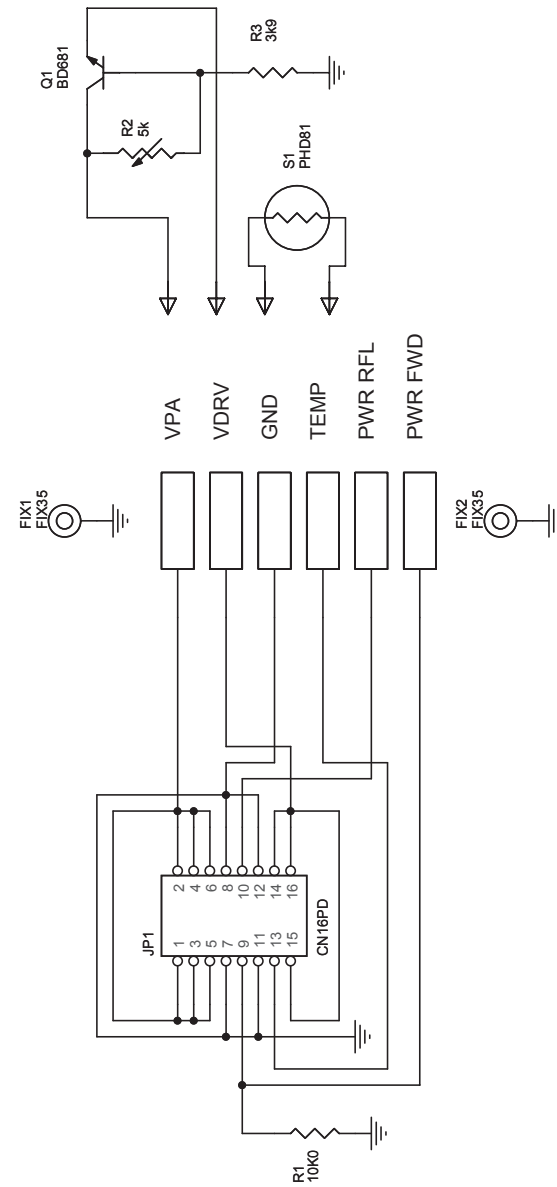


Nome Progetto: PTX30 LCD	Autore: Ufficio Tecnico	Data: 18/06/03	Revisione: 2.0	Autore: PTX30 LCD
Nome PC in Rete: \UT_SRV\PROGETTI	Nome PC in Rete: External Remote Card vers 2.0	Nome PC in Rete: External Remote Card vers 2.0	Nome PC in Rete: External Remote Card vers 2.0	Nome PC in Rete: External Remote Card vers 2.0
File/Cartella: MANUALEPTX30.LCD\SLTELEM002\TELEMD002.DSN	File/Cartella: MANUALEPTX30.LCD\SLTELEM002\TELEMD002.DSN	File/Cartella: MANUALEPTX30.LCD\SLTELEM002\TELEMD002.DSN	File/Cartella: MANUALEPTX30.LCD\SLTELEM002\TELEMD002.DSN	File/Cartella: MANUALEPTX30.LCD\SLTELEM002\TELEMD002.DSN

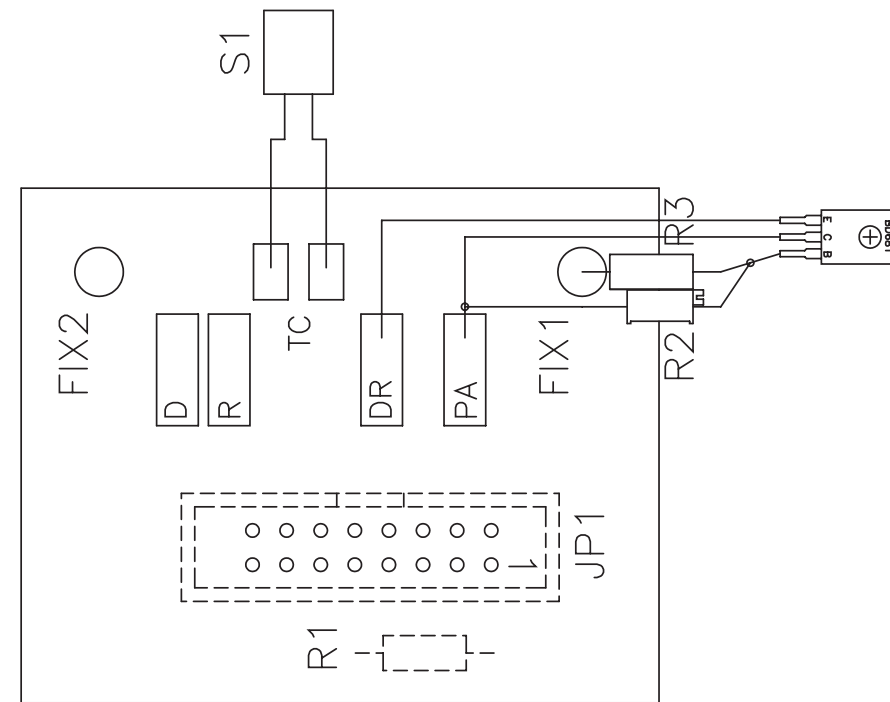


Nome Progetto: PTX30 LCD	Autore: Ufficio Tecnico	Data: 18/06/03	Revisione: 2.0	Autore: PTX30 LCD
Nome PC in Rete: \UT_SRV\PROGETTI	Nome PC in Rete: External Remote Card vers 2.0	Nome PC in Rete: External Remote Card vers 2.0	Nome PC in Rete: External Remote Card vers 2.0	Nome PC in Rete: External Remote Card vers 2.0
File/Cartella: MANUALEPTX30.LCD\SLTELEM002\TELEMD002.DSN	File/Cartella: MANUALEPTX30.LCD\SLTELEM002\TELEMD002.DSN	File/Cartella: MANUALEPTX30.LCD\SLTELEM002\TELEMD002.DSN	File/Cartella: MANUALEPTX30.LCD\SLTELEM002\TELEMD002.DSN	File/Cartella: MANUALEPTX30.LCD\SLTELEM002\TELEMD002.DSN

External Remote Card Revised: 14/07/04				
SLTELEM002 Revision: 3.0				
PTX30 LCD				
Item	Quan- tity	Reference	Part	Description
1	1	CN1	DB25FSD	Connettore DB25 femm. cs
2	1	CN2	DB9FSD	Connettore DB9 femm. cs
3	22	C1, C2, C3, C5, C6, C7, C8, C9, C11, C18, C20, C21, C22, C23, C24, C29, C30, C32, C33, C34, C47, C48	10nF	Cond. SMD 0805
4	16	C4, C10, C12, C13, C14, C15, C19, C38, C39, C40, C41, C42, C43, C44, C45, C46	100pF	Cond. SMD 0805
5	7	C16, C17, C27, C28, C31, C36, C37	0.1uF	Cond. SMD 0805
6	3	C25, C26, C35	10uF	Cond. Elett. SMD d. 4mm
7	6	FIX1, FIX2, FIX3, FIX4, FIX5, FIX6	FIX35	Foro fissaggio 3.5mm
8	1	F1	AFUSE	Fusibile autorip. 7mm
9	1	JP1	STM03S	Strip maschio 3 pin
10	1	JP2	CN16PD	Connettore 16 poli Flat cs
11	1	JP3	CN10PD	Connettore 10 poli Flat cs
12	6	OPT1, OPT2, OPT3, OPT4, OPT5, OPT6	OPTOSM1	Optoisolatore SMD SO6
13	6	R1, R2, R3, R4, R5, R7	4K7	Res. SMD 0805
14	6	R6, R8, R9, R10, R11, R12	10K	Res. SMD 0805
15	1	U1	78L05	Stabilizzatore TO92
16	1	U2	74HC597	Shift Reg. DIP16
17	2	U3, U5	4094SMD	Shift Reg. SMD SO16
18	2	U4, U6	ULN2804	Octal Inv. Driver DIP18

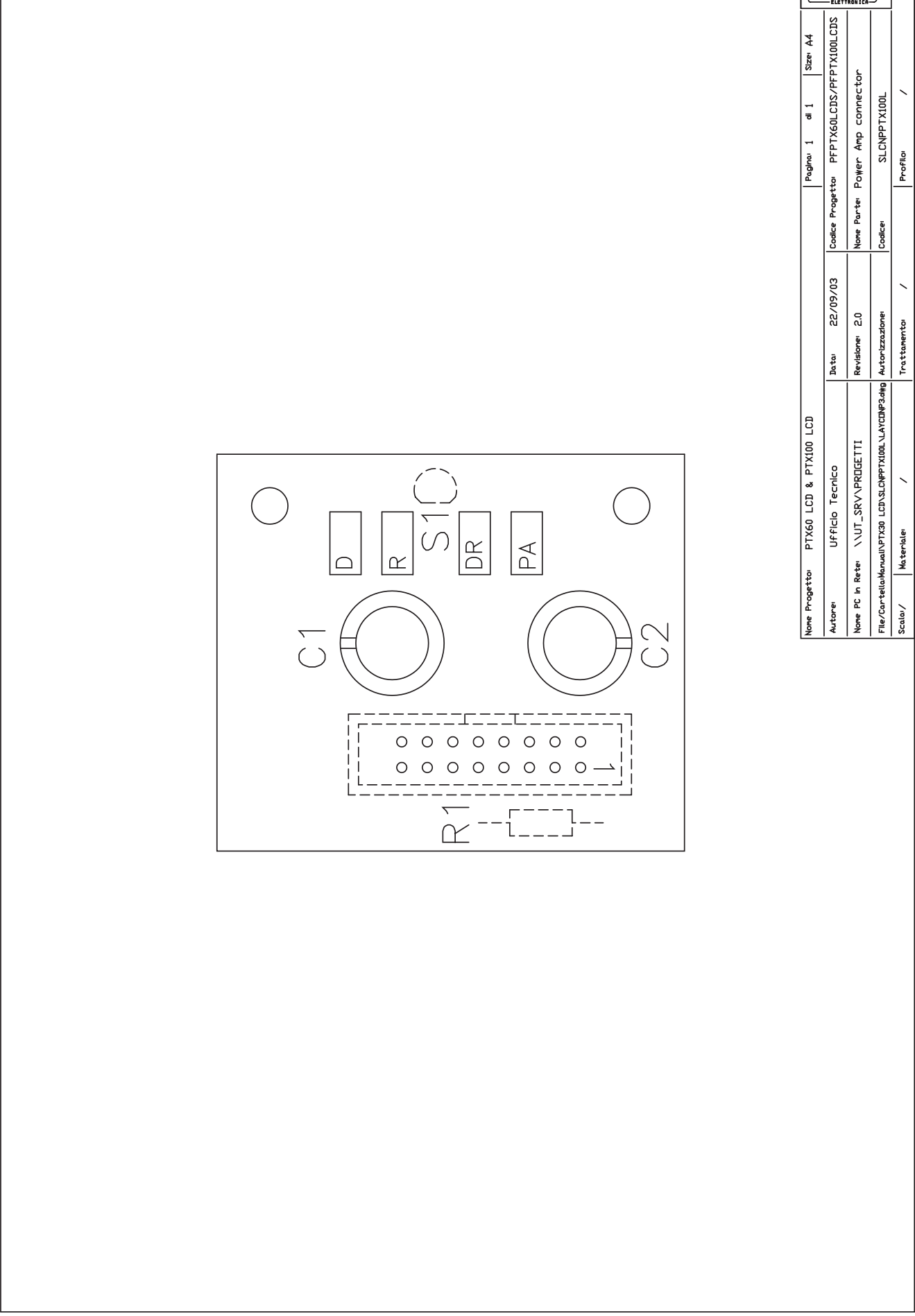
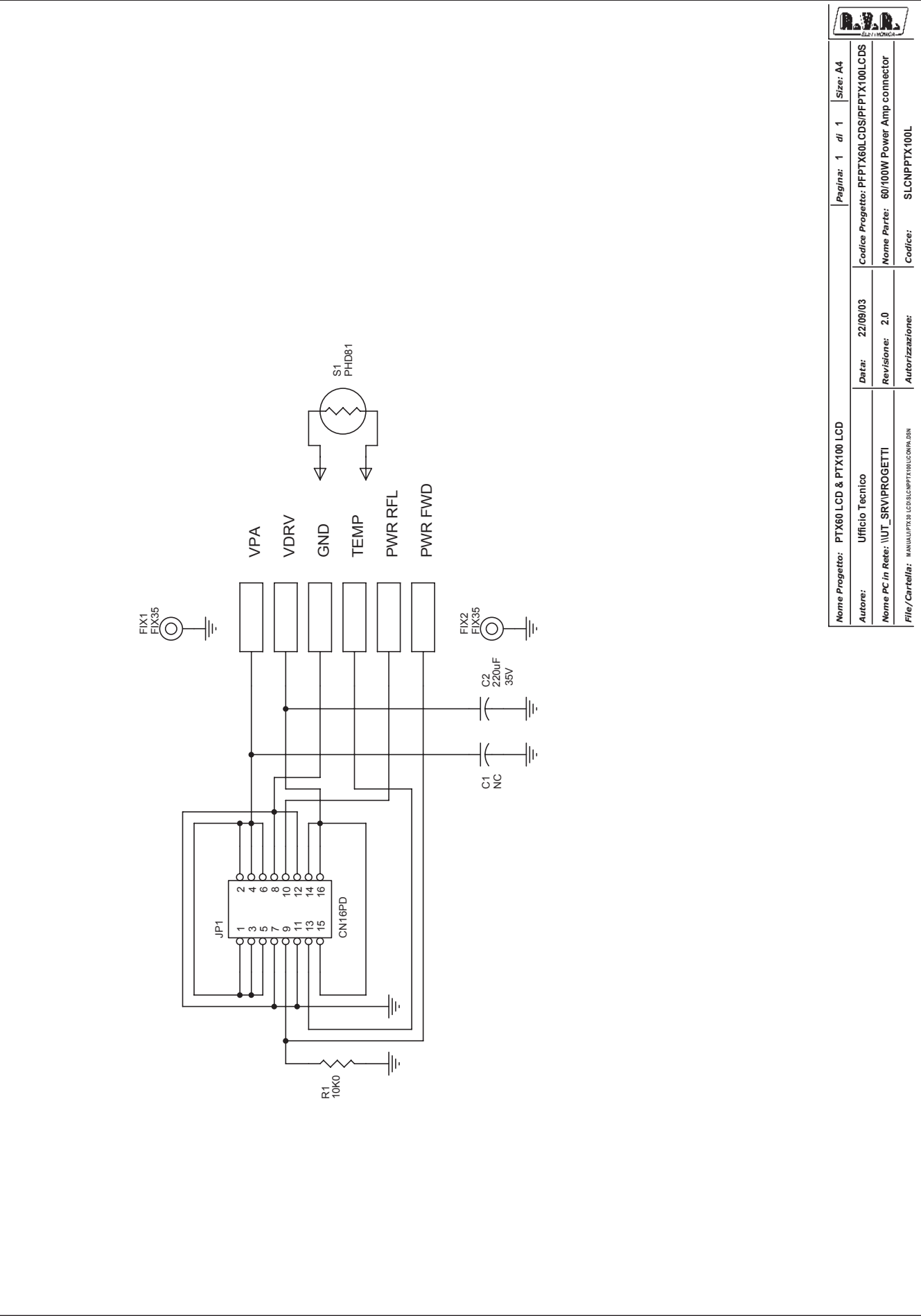


Nome Progetto: PTX30 LCD		Pagina: 1 di 1		Size: A4
Autore:	Ufficio Tecnico	Data:	03/05/04	
Nome PC in Rete: \IUT_SRV\PROGETTI		Revisione:	2.2	
File/Cartelle: MANUALEPT30.CODICEINPT30.COMPAUN		Codice Progetto: PPTX30LCDS		
		Nome Parte: 30W Power Amp connector		
		Codice:		SLCNPTX30.C

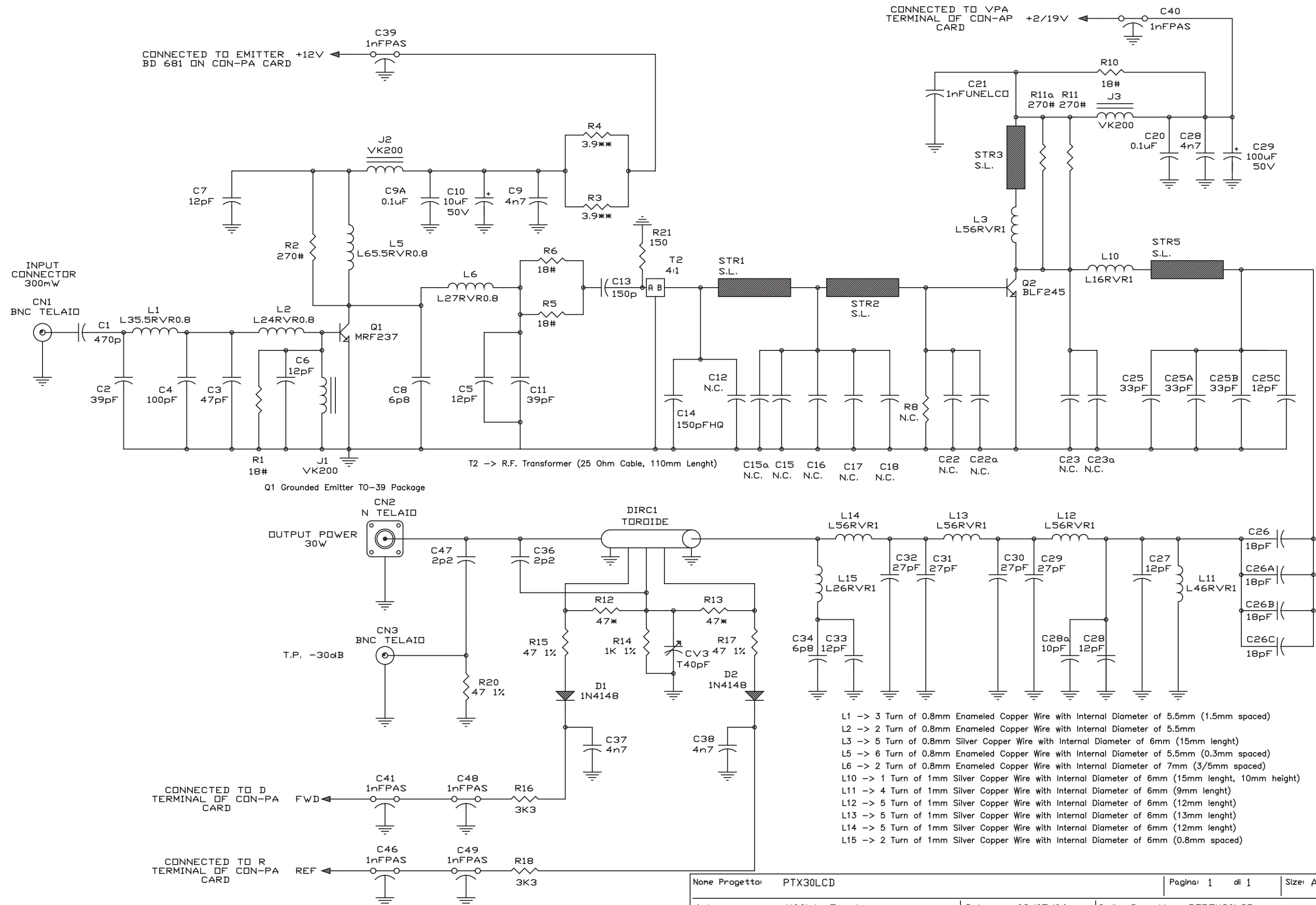


Nome Progetto		PTX30LCD		Pagina 1		di 1		Size A4	
Autore		Ufficio Tecnico		Data		Codice Progetto		PFPTX30LCDS	
Nome		PC in Rete		Revisione		Nome Parte		30W Power Amp connector	
File/Cartaella/Manuali		PTX30_LCD/SLCNPPTX30LCD/AVDPC2.dwg		Autorizzazioni		Codice		SLCNPTX30LC	
Scala /		Materiale /		Trattamento		/		Profilo /	

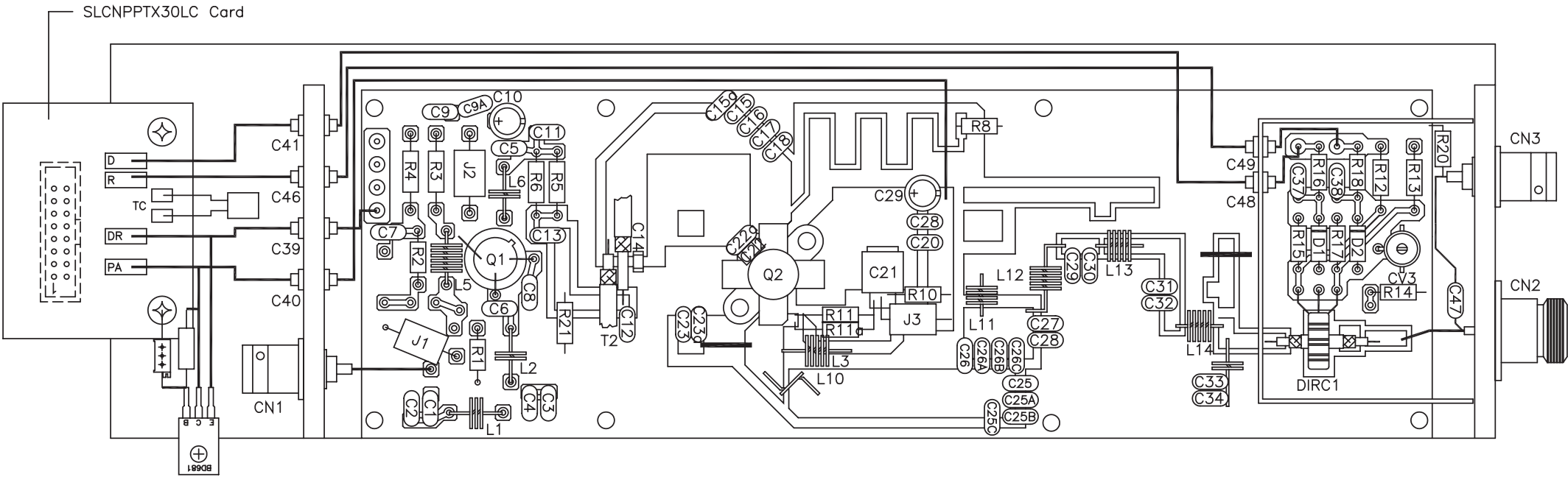
Power Amp connector - Bill of materials				
Item	Qty	Reference	Part	DESCRIPTION
1	1	R1	10K0	RESISTOR 1/4W 1%
2	2	R2	5K	TRIMMER 3296W
3	1	R3	1K5	RESISTOR 1/4W 1%
4	1	JP1	CN16PD	CONN. M 2*8 P 2.54
5	1	Q1	BD681	NPN POWER TRANSISTOR
6	1	S1	PHD81	SILICON TEMP. SENSOR



Power Amp connector				
SLCNPPTX100L				
Date: 14/07/04 Rev.:3.0				
Item	Qty	Reference	Part	DESCRIPTION
1	1	R1	10K0	RESISTOR 1/4W 1%
2	1	C2	220uF/ 35V	ELECTR. CAPACITOR
3	1	JP1	CN16PD	CONN. M 2*8 P 2.54
4	1	S1	PHD81	SILICON TEMP. SENSOR
5	1	C1	NC	NON CONNESSO



Nome Progettor:	PTX30LCD	Pagina:	1 di 1	Size:	A3
Autore:	Ufficio Tecnico	Data:	03/05/04	Codice Progetto:	PFPTX30LCD
Nome PC in Rete:	\\UT_SRV\PROGETTI	Revisione:	2.2	Nome Parte:	30W R.F. Power Amplifier
File/Cartella:	MANUALI\PTX LCD\SLPA30_16\SCHFIN_A.DWG	Autorizzazione:		Codice:	SLRFPTX30LCD
Scala:	/	Materiale:	/	Trattamento:	/
				Profilo:	/

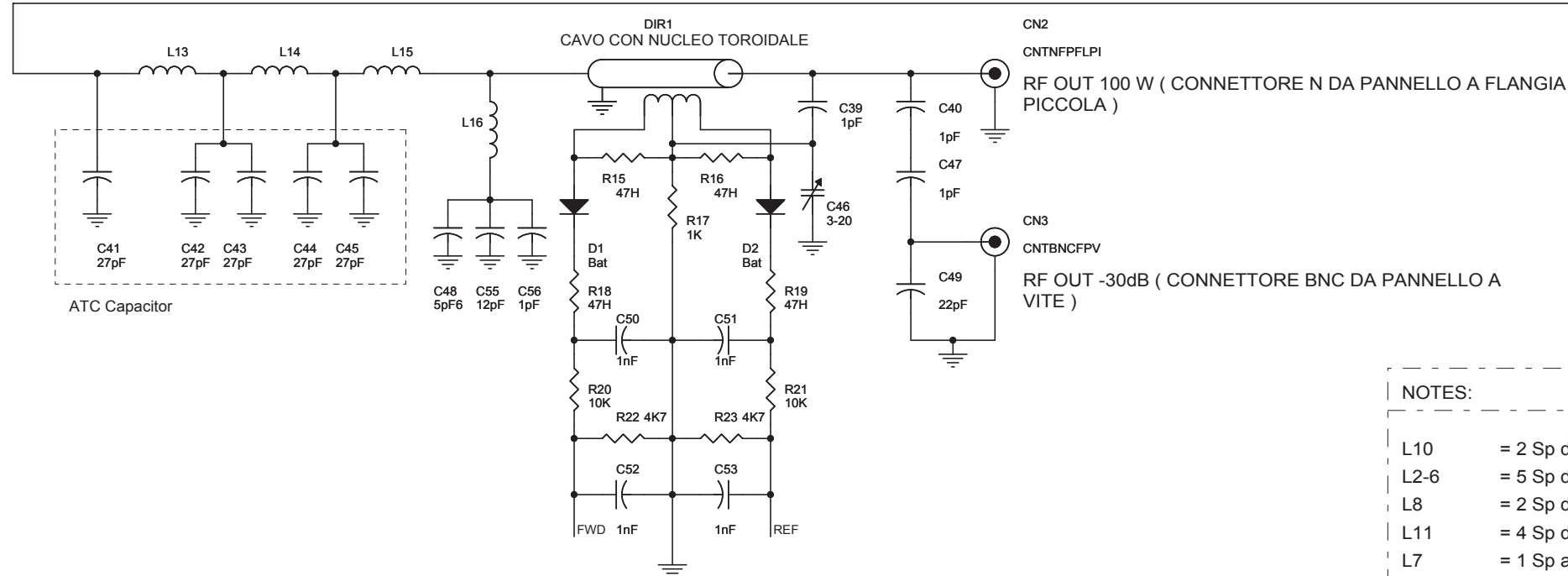
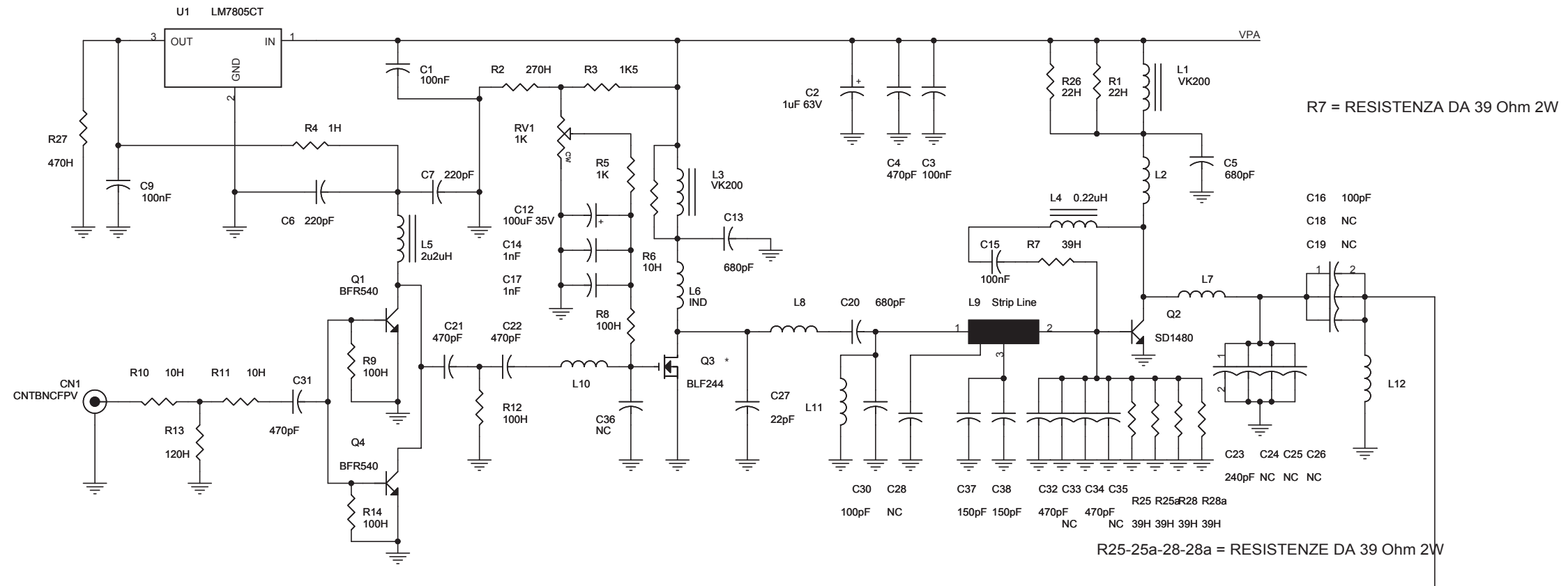


Nome Progetto: PTX30 LCD			Pagina: 1 di 1	Size: A3
Autore: Ufficio Tecnico		Data: 03/05/04	Codice Progetto: PFPTX30LCDS	
Nome PC in Rete: \\UT_SRV\PROGETTI		Revisione: 2.2	Nome Parte: 30W R.F. Power Amplifier Layout	
File/Cartella:MANUALI\PTX LCD\SLRFPTX30LCD\layfin30.dwg		Autorizzazione:	Codice: SLRFPTX30LCD	
Scala: /	Materiale: /	Trattamento: /	Profilo: /	



30W RF POWER AMPLIFIER			
SLRFPTX30LCD			
Version:2,2			
5/3/2004			
Item	Qty	Reference	Part
1	2	CN1,CN3	BNC TELAIO
2	1	CN2	N TELAIO
3	1	CV3	T40pF
4	4	C9,C28,C37,C38	4n7
5	2	C2,C11	39pF
6	1	C3	47pF
7	1	C4	100pF
8	6	C5,C6,C7,C27,C28,C33	12pF
9	2	C8,C34	6p8
10	2	C20,C9A	0.1uF
11	1	C10	10uF
12	1	C14	150pFHQ
13	1	C21	1nFUNELCO
14	1	C22	680pFHQ
15	1	C25C	12pF
16	3	C25B,C25A,C25	33pF
17	4	C26C,C26B,C26A,C26	18pF
18	4	C29,C30,C31,C32	27pF
19	2	C36,C47	2p2
20	6	C39,C40,C41,C46,C48,C49	1nFPAS
21	1	DIRC1	TOROIDE
22	2	D1,D2	1N4148
23	3	J1,J2,J3	VK200
24	1	L1	L35.5RVR0.8
25	1	L2	L24RVR0.8
26	4	L3,L12,L13,L14	L56RVR1
27	1	L5	L65.5RVR0.8
28	1	L6	L27RVR0.8
29	1	L10	L16RVR1
30	1	L11	L46RVR1
31	1	L15	L26RVR1
32	1	Q1	MRF237
33	1	Q2	BLF245
34	2	R1,R10	18#
35	2	R2,R11,R11A	270#
36	2	R4,R3	3.9**

37	2	R6,R5	18#
38	2	R13,R12	47*
39	1	R14	1K 1%
40	3	R15,R17,R20	47 1%
41	2	R16,R18	3K3
42	4	STR1,STR2,STR3,STR5	S.L.
43	1	T2	04,01
44	1	C1	470p
45	1	C13	150p
46	12	R8,C12,C15,C15A,C16,C17,	N.C.
		C18,C22,C22A,C23,C23A	
47	1	R21	150

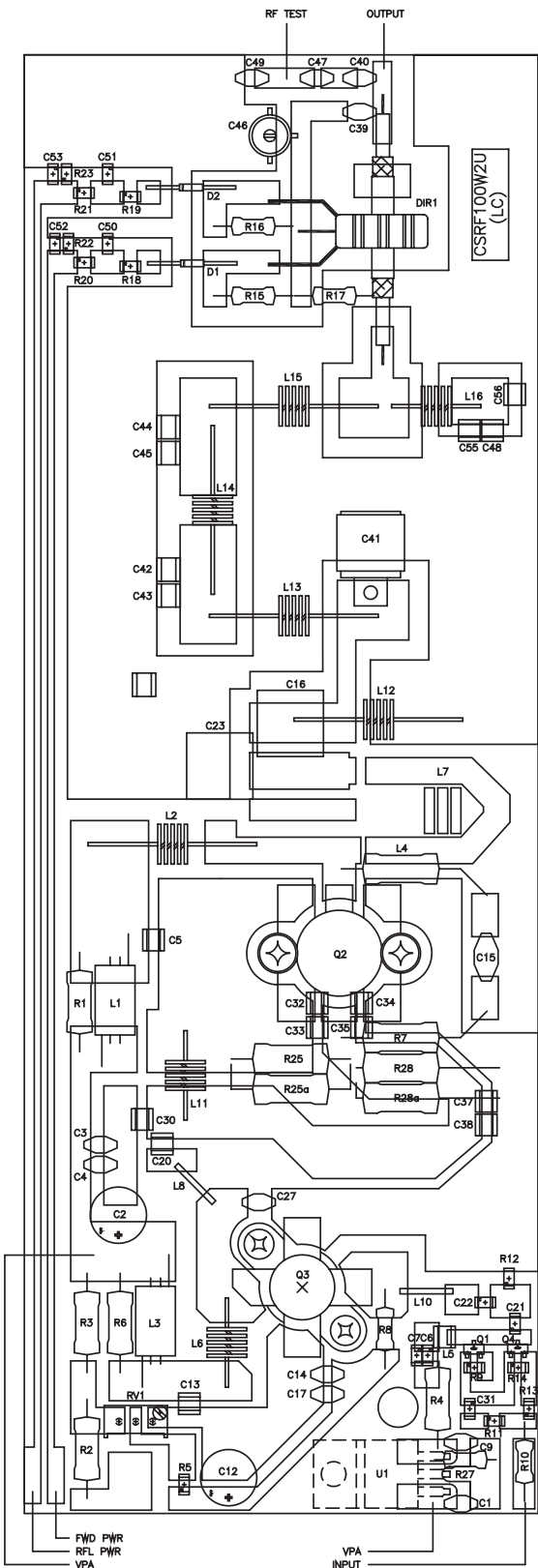


- NOTES:**
- L10 = 2 Sp di filo arg. 1mm su aria di 4.5mm
 - L2-6 = 5 Sp di filo arg. 1mm su aria 7mm
 - L8 = 2 Sp di filo arg. 1mm su aria di 4.5mm
 - L11 = 4 Sp di filo arg. 1mm su aria di 7mm
 - L7 = 1 Sp a U di filo arg. 1mm H=12 x L=9mm
 - L12 = 3 Sp di filo arg. 1.5mm su aria 7mm
 - L13-14-15 = 4 Sp di filo arg. 1.5mm su aria 8mm
 - L16 = 4 Sp di filo 1mm su aria di 5mm

La PTC è Quella Normalmente Montate nel LCD

* NB: Q3 can mount also an BLF245

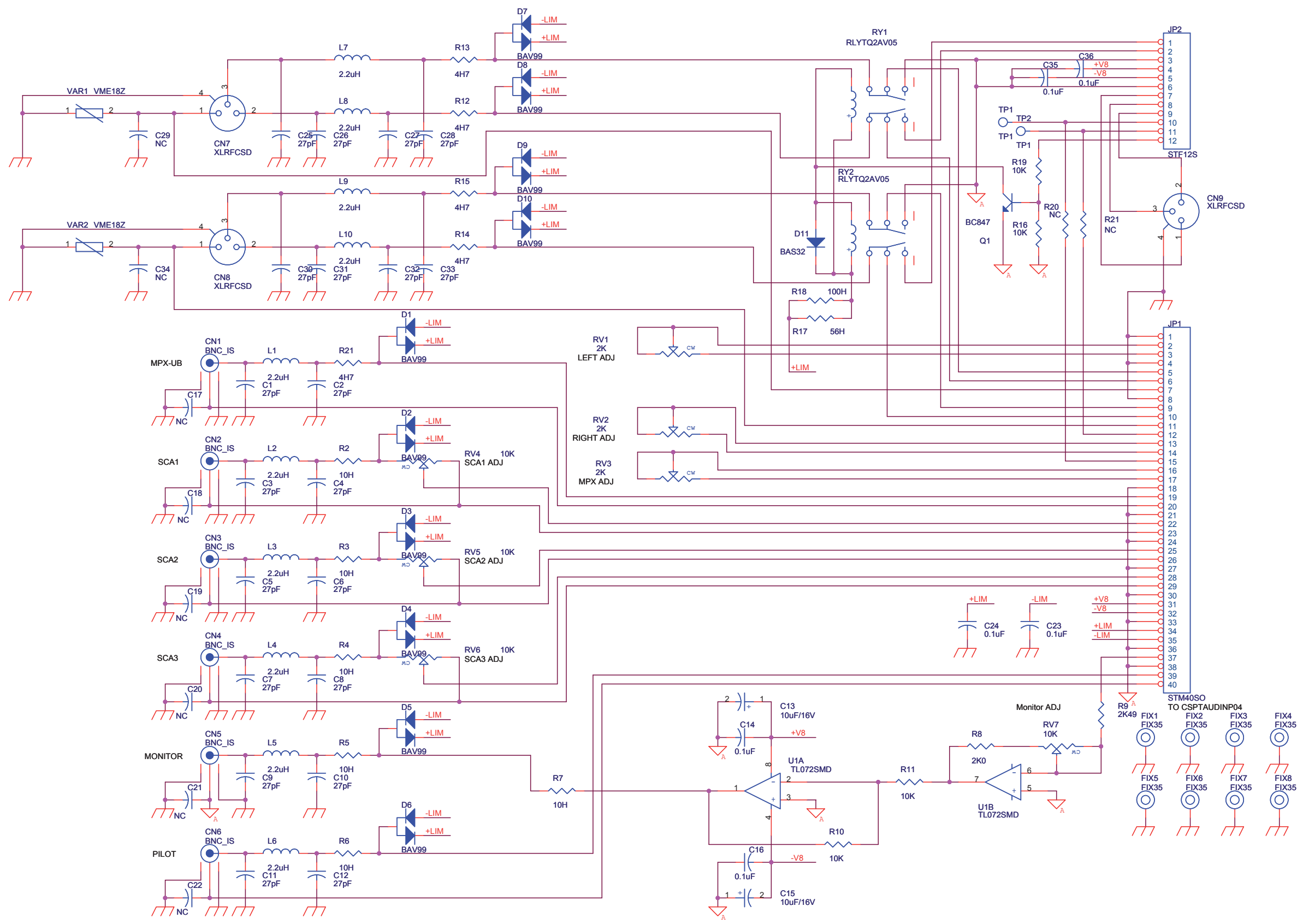
Nome Progetto: PTX60 LCD & PTX100 LCD		Pagina: 1 di 1	Size: A3
Autore: Ufficio Tecnico	Data: 10/02/05	Codice Progetto: PFPTX60LCD/PTX100LCD	
Nome PC in Rete: \UT_SRVPROGETTI	Revisione: 3.1	Nome Parte: 60-100W RF Power amplifier	
File/Cartella: MANUALPTX60 LCD/SLRFPTX100LC/FINALE.DSN	Autorizzazione:	Codice: SLRFPTX100LC	



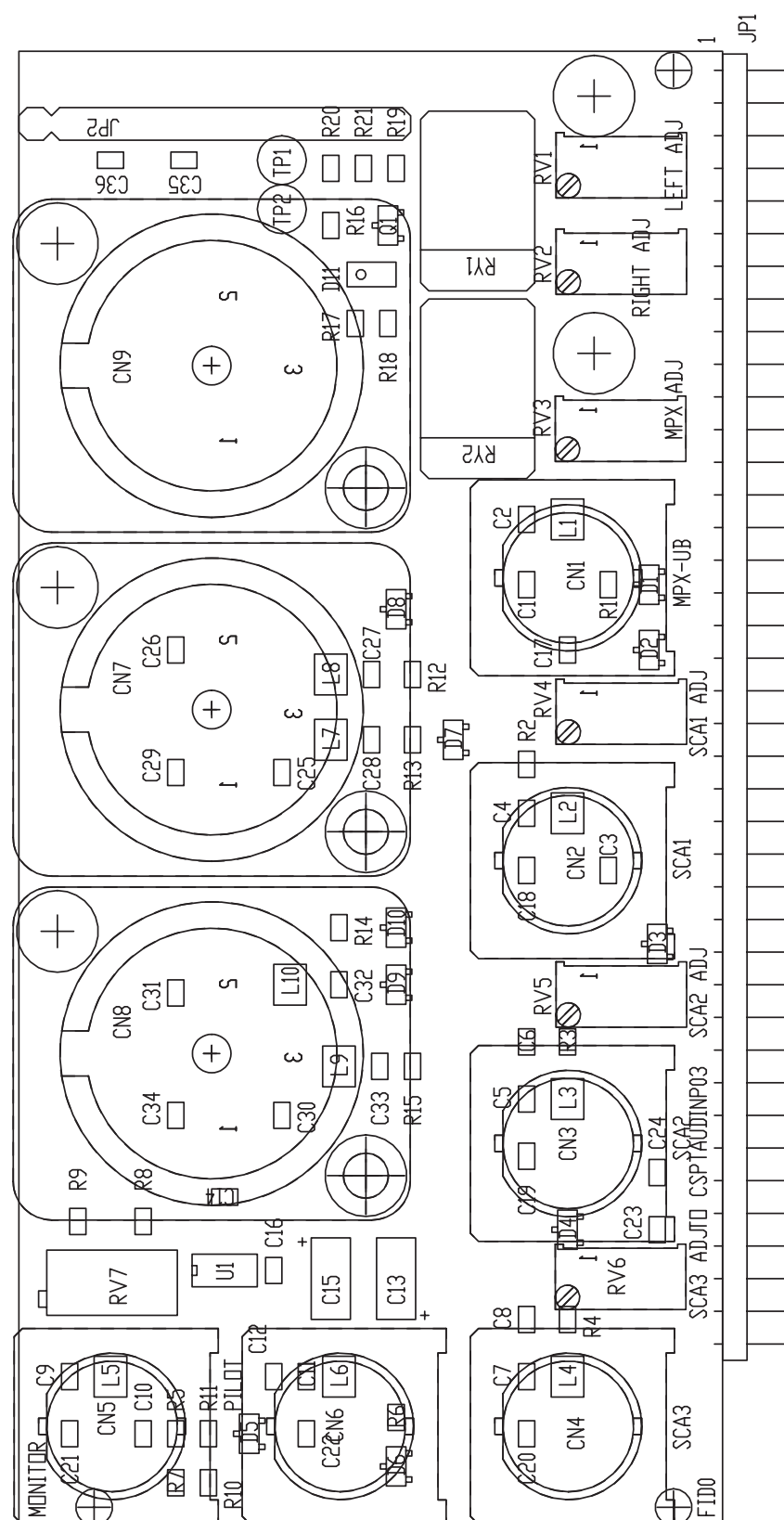
B.V.B. </				
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60-100W RF Power amplifier
SLRFPTX100LC
Date: 10/02/05 Revision: 3.1
PTX60 LCD & PTX100 LCD

Item	Quantity	Reference	Part	Description
1	1	CN1	CNTBNCFPV	BNC F pann vitone lungo
2	1	CN2	CNTNFPFLPI	N F pann flangia piccola
3	1	CN3	CNTBNCFPV	BNC F pann vitone
4	4	C1,C3,C9,C15	100nF	Cond. ceram ico p5
5	1	C2	1uF 63V	Cond. elettrolitico
6	4	C4,C21,C22,C31	470pF	Cond. ceram ico p5
7	3	C5,C13,C20	680pF	Cond. ceram ico ATC
8	2	C6,C7	220pF	Cond. ceram ico SMD 1206 COG
9	1	C12	100uF 35V	Cond. elettrolitico
10	2	C14,C17	1nF	Cond. ceram ico p5
11	1	C16	100pF	SilverM ica UNELCO
12	9	C18,C19,C24,C25,C26,C28,C33,C35,C36	NC	
13	1	C23	240pF	SilverM ica UNELCO
14	2	C27,C49	22pF	Cond. ceram ico p5
15	1	C30	100pF	Cond. ceram ico ATC
16	2	C32,C34	470pF	Cond. ceram ico ATC
17	2	C37,C38	150pF	Cond. ceram ico ATC
18	3	C39,C40,C47	1pF	Cond. ceram ico p5
19	5	C41,C42,C43,C44,C45	27pF	ATC
20	1	C46	mar-20	Compensatore
21	1	C48	22 HQ	
22	4	C50,C51,C52,C53	1nF	Cond. ceram ico 1206 X7R
23	1	DIR1	TRANSMISSION LINE	
24	2	D1,D2	Bat	Diodo in vetro DO35
25	2	L1,L3	VK200	
26	11	L2,L6,L7,L8,L10,L11,L12,L13,L14,L15,L16	ND	Induttanza cilindrica
27	1	L4	0.22uH	
28	1	L5	2u2uH	
29	1	L9	Strip Line	
30	2	Q1,Q4	BFR540	
31	1	Q2	SD1480	
32	1	Q3	BLF244	
33	1	RV1	1K	Trim mer 3296
34	2	R1,R26	22H	Res. 2W 5%
35	1	R2	270H	Res. 2W 5%
36	1	R3	1K5	Res. 2W 5%
37	1	R4	1H	Res. 1/4W 1%
38	1	R5	1K	Res. 1206 1%
39	2	R6,R10	10H	Res. 1/4W 1%
40	1	R7	39H	Res. 2W 5%
41	1	R8	100H	Res. 1/4W 1%
42	3	R9,R12,R14	100H	Res. 1206 1%
43	1	R11	10H	Res. 1206 1%
44	1	R13	120H	Res. 1206 1%
45	2	R15,R16	47H	Res. 1/4W 1%
46	1	R17	1K	Res. 1/4W 1%
47	2	R18,R19	47H	Res. 1206 1%
48	2	R20,R21	10K	Res. 1206 1%
49	2	R22,R23	4K7	Res. 1206 1%
50	4	R25,R25a,R28,R28a	39H	Res. 2W 5%
51	1	R27	470H	Res. 1/4W 1%
52	1	U1	LM7805CT	



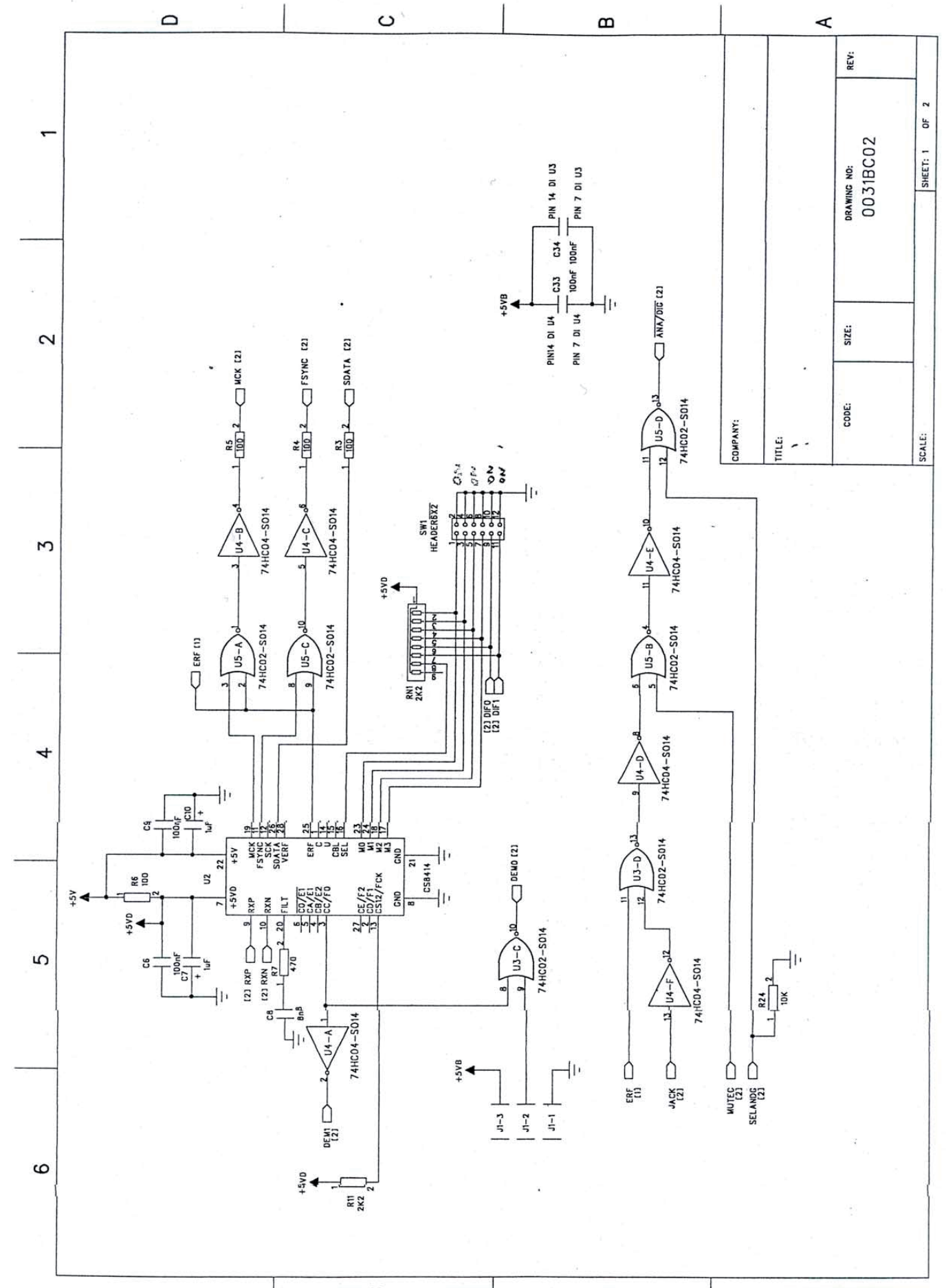
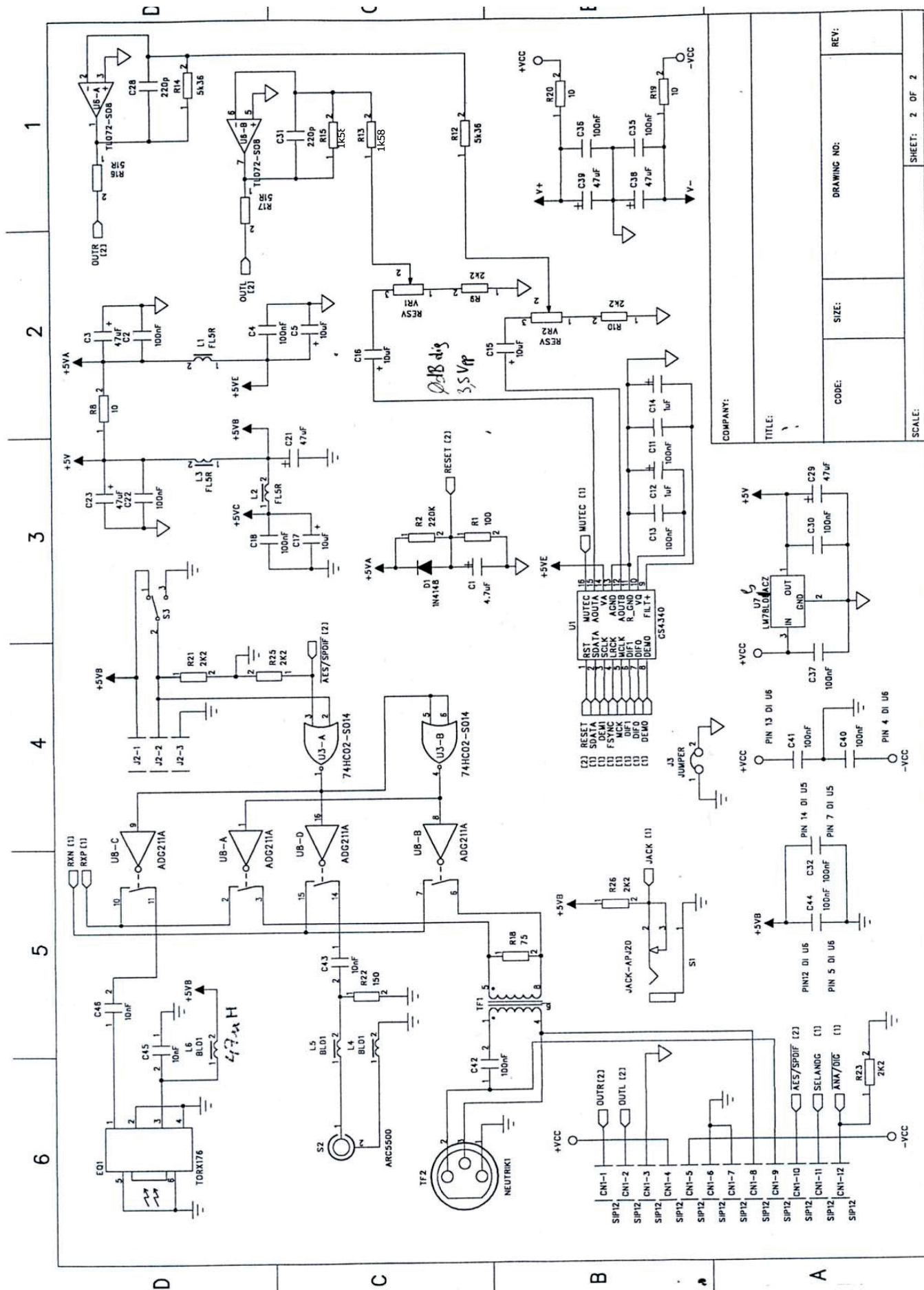
Nome Progetto: PTX30 LCD		Pagina: 1 di 1	Size: A3
Autore: Ufficio Tecnico	Data: 14/07/04	Codice Progetto: PFPTX30LCDS	
Nome PC in Rete: \IUT_SRVPROGETTI	Revisione: 3.1	Nome Parte: SCHEMA CONNETTORI BNC, SCA, MPX e REGOLAZIONI	
File/Cartella: MANUALE PTX LCD OPZIONE AUDIO INP - DSAIUAUDBNC05.DSN	Autorizzazione:	Codice: SLPTAUDBNC05	

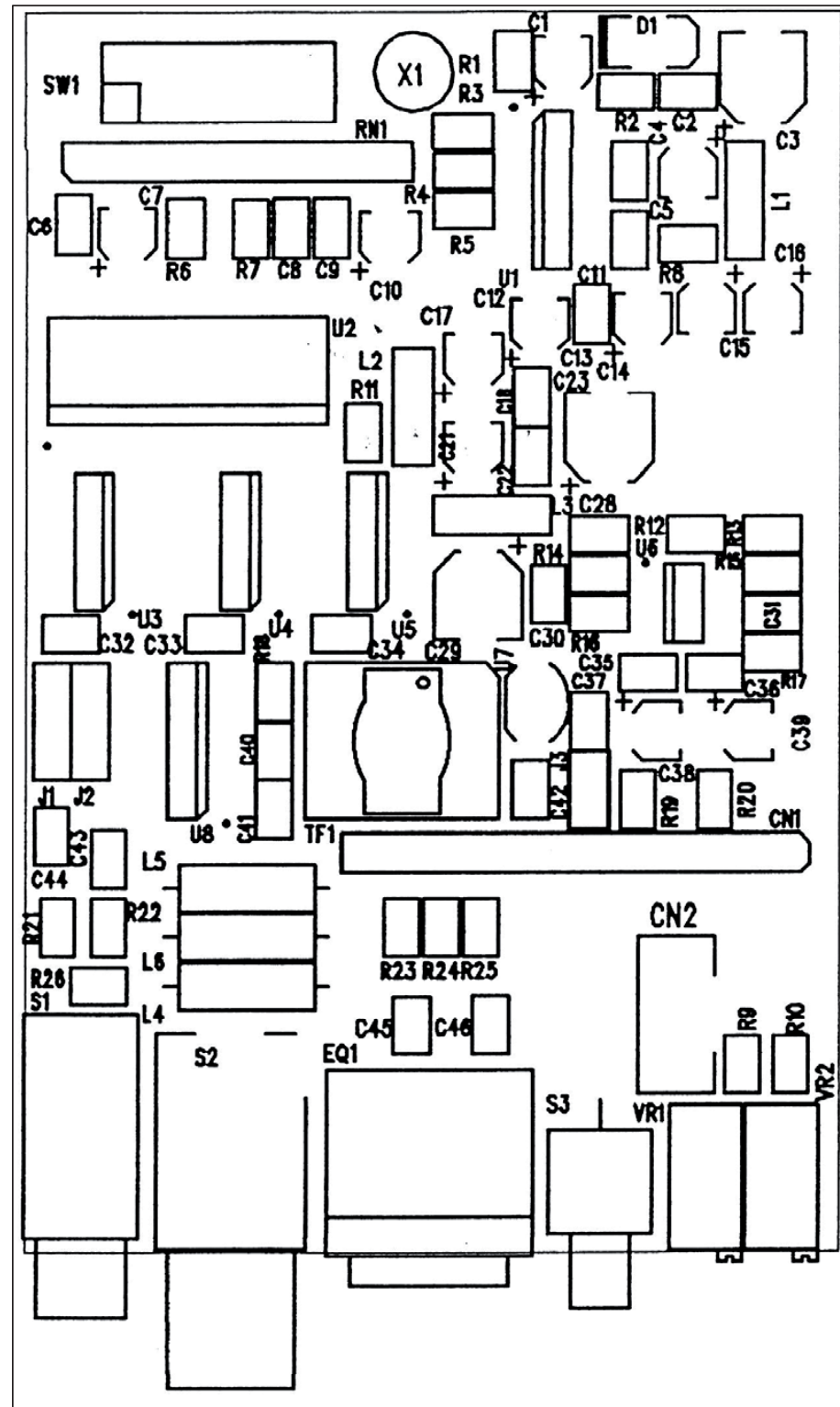


Nome Progettista		PTX30 LCD		Pagina 1 di 1		Size: A4	
Autore		Ufficio Tecnico		Data: 18/06/03		Codice Progetto: PFTX30LCDS	
Nome PC in Rete		\\UT_SRV\PROGETTI		Revisione: 2.0		Nome Parte: SCHEMA CONNETTORI BNC,SCA,MPX e REGALAZIONI	
File/Car-telloio		MANUALI\PTX_LCD\OPTION_AUIMP-DIS\REV03BNC.JPG		Autorizzazione		Codice: CSPTAUDBNC05	
Scala(21)		Metriche /		Trattamento: /		Profilo: /	

SCHEDA CONNETTORI BNC,SCA,MPX e REGOLAZIONI Revised: Tuesday, September 06, 2005
SLPTAUBNC05 Revision: 3.1
PTX30 LCD
PFPTX30LCDS
Ufficio Tecnico

Item	Quantity	Reference	Part	Description	Code
1	6	CN1, CN2, CN3, CN4, CN5, CN6	BNC_IS	Connettore BNC metallico	CNTBNCFCSDM
2	3	CN7, CN8, CN9	XLRFCSD	Connettore XLR femm. cs	CNTXLRFCS3P
3	1	CS1	CSPTAUDBNC05	Circuito stampato	CSPTAUDBNC05
4	20	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C25, C26, C27, C28, C30, C31, C32, C33	27pF	Cond. ceramico 0805	CCC085270JCC
5	2	C13, C15	10uF/16V	Cond. Elett. SMD tant. size C	CET106C160SM
6	6	C14, C16, C23, C24, C35, C36	0.1uF	Cond. ceramico 0805	CCC085104KXC
7	8	C17, C18, C19, C20, C21, C22, C29, C34	NC	Cond. ceramico 0805	
8	10	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10	BAV99	Doppio Diodo SMD SOT23	DISBAV99
9	1	D11	BAS32	MINIMELF SMD Diode	DISBAS32MINI
10	8	FIX1, FIX2, FIX3, FIX4, FIX5, FIX6, FIX7, FIX8	FIX35	Foro fissaggio 3.5mm	
11	1	JP1	STM40SO	Strip M 40 pin 90°	CNTSTM40SAL
12	1	JP2	STF12S	Strip F 18 pin tornita	CNTSTF12SDB
13	10	L1, L2, L3, L4, L5, L6, L7, L8, L9, L10	2.2uH	Induttanza SMD 3225 (1210)	IMP2U2S120
14	1	Q1	BC847	Trans. NPN SOT23	TRNBC847
15	3	RV1, RV2, RV3	2K	Trimmer Rg V 3296	RVT3296WK002
16	3	RV4, RV5, RV6	10K	Trimmer Rg V 3296	RVT3296WK010
17	1	RV7	10K	Trimmer Rg H 3296	RVT3296XK010
18	2	RY1, RY2	RLYTQ2AV05	Rele' TQ2	RLD2V05V05AM
19	6	R2, R3, R4, R5, R6, R7	10H	Res. SMD 0805 1%	RCH085F0010H
20	1	R8	2K0	Res. SMD 0805 1%	RCH085F0002K
21	1	R9	2K49	Res. SMD 0805 1%	RCH085F02K49
22	4	R10, R11, R16, R19	10K	Res. SMD 0805 1%	RCH085F0010K
23	5	R12, R13, R14, R15, R21	4H7	Res. SMD 0805 1%	RCH085F004H7
24	1	R17	56H	Res. SMD 0805 1%	RCH085F0056H
25	1	R18	100H	Res. SMD 0805 1%	RCH085F0100H
26	2	R20, R21	NC	Res. SMD 0805 1%	
27	2	TP1, TP2	TP1	Test point	
28	1	U1	TL072SMD	Dual Op. SMD SO8	CILTL072SMD
29	2	VAR1, VAR2	VME18Z	ESD SMD protector	MOV018V085





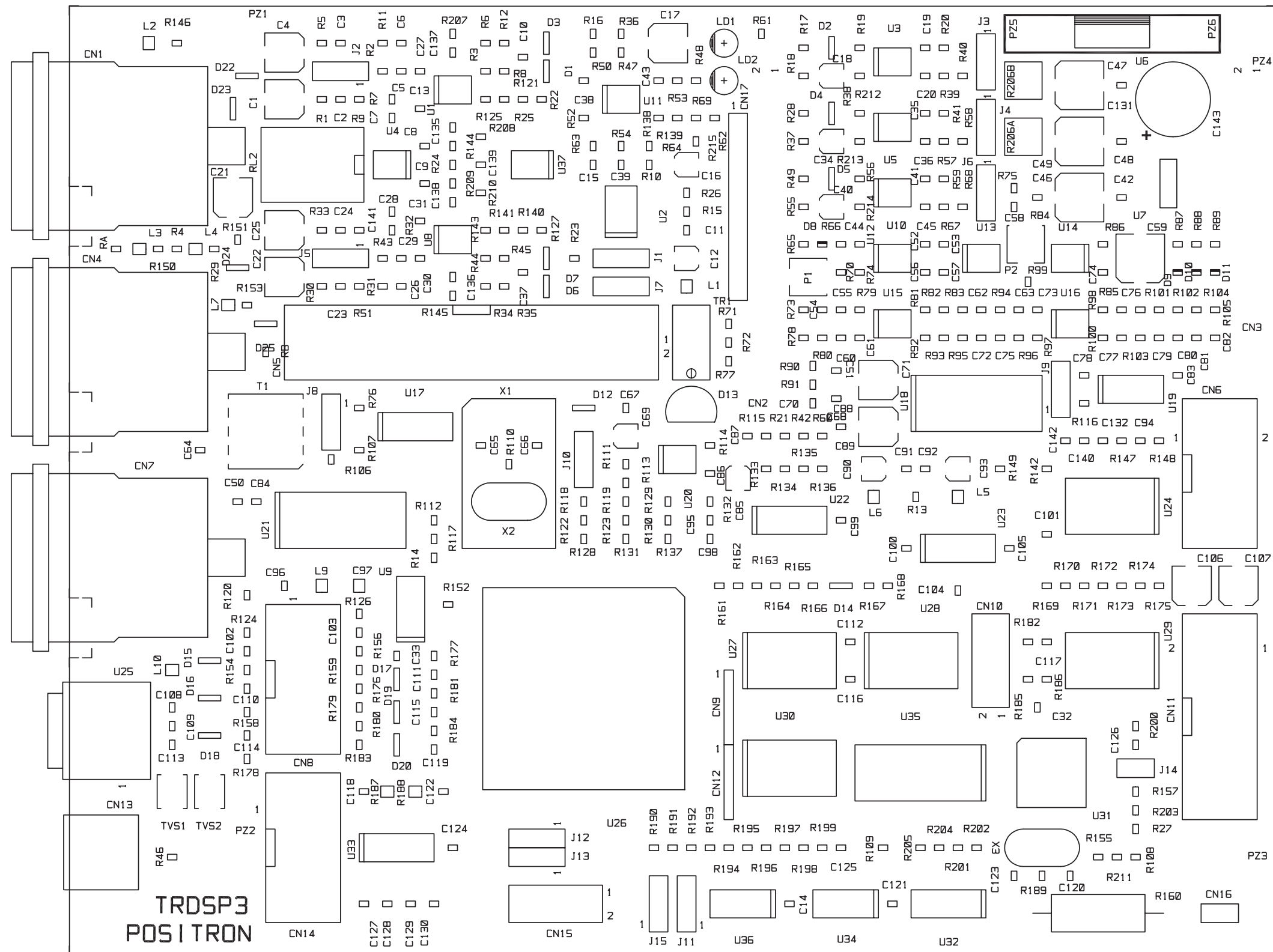
Nome Progetto: PTX30 LCD		Pagina: 1 di 1		Size: A4	
Autore: Ufficio Tecnico		Data: 18/06/03		Codice Progetto: PFPTX30LCDS	
Nome PC in Rete: \\\UT_SRV\PROGETTI		Revisione: 2.0		Nome Parte: DIGITAL AUDIO INPUT	
File/Cartella: MANUL\PTX30 LCD\OPTDN AUDIO-DIG\RXAES.DWG		Autorizzazione:		Codice: CSRXAES	
Scala: 2:1		Materiale:		Trattamento:	
				Profilo:	

Audio Input Selector - Bill of materials					
	Name	Logie	Ga-tes	VALUE	Part Type
1	C6	CAP	1	100nF	C0805
2	C7	CAP	1	1uF	AECAP
3	C8	CAP	1	6n8	C0805
4	C9	CAP	1	100nF	C0805
5	C10	CAP	1	1uF	AECAP
6	C33	CAP	1	100nF	C0805
7	C34	CAP	1	100nF	C0805
8	J1	CON	3		HEADER03
9	R3	RES	1	-100	R0805
10	R4	RES	1	100	R0805
11	RS	RES	1	100	R0805
12	R6	RFS	1	100	R0805
13	R7	RES	1	470	R0805
14	R11	RES	1	2K2	R0805
15	R24	RES	1	10K	R0805
16	RN1	RES	1	2K2	RN9A
17	SW1	UND	1		HEADER\6X2
18	U2	UND	1		CS8414
19	U3	TTL	4		74HC02-S01
20	U4	TTL	6		74HC04-S0I
21	U5	TTL	4		74HC02-S0I
22	C1	CAP	1	4.7uF	AECAP
23	C2	CAP	1	100nF	C0805
24	C3	CAP	1	47uF	AECAP
25	C4	CAP	1	100nF	C0805
26	C5	CAP	1	10uF	AECAP
27	C11	CAP	1	100nF	C0805 10
28	C12	CAP	1	1uF	AECAP 1u
29	C13	CAP	1	100nF	C0805 10
30	C14	CAP	1	1uF	AECAP 1u
31	C15	CAP	1	10uF	AECAP 10
32	C16	CAP	1	10uF	AECAP 10
33	C17	CAP	1	10uF	AECAP 10
34	C18	CAP	1	100nF	C0805 10
35	C19	CAP	1	220p	C0805 22
36	C20	CAP	1	220p	C0805 22
37	C21	CAP	1	47uF	AECAP 47

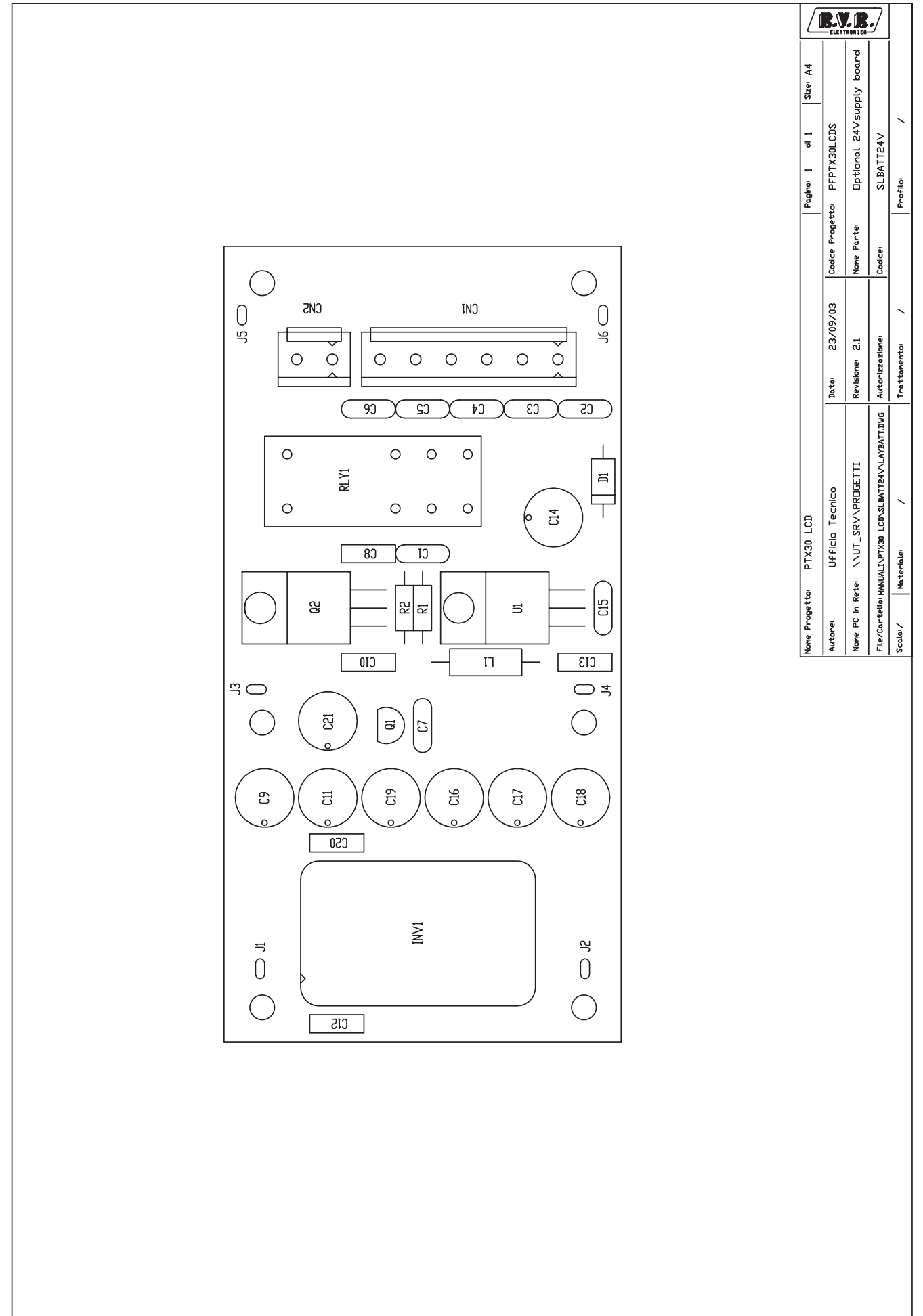
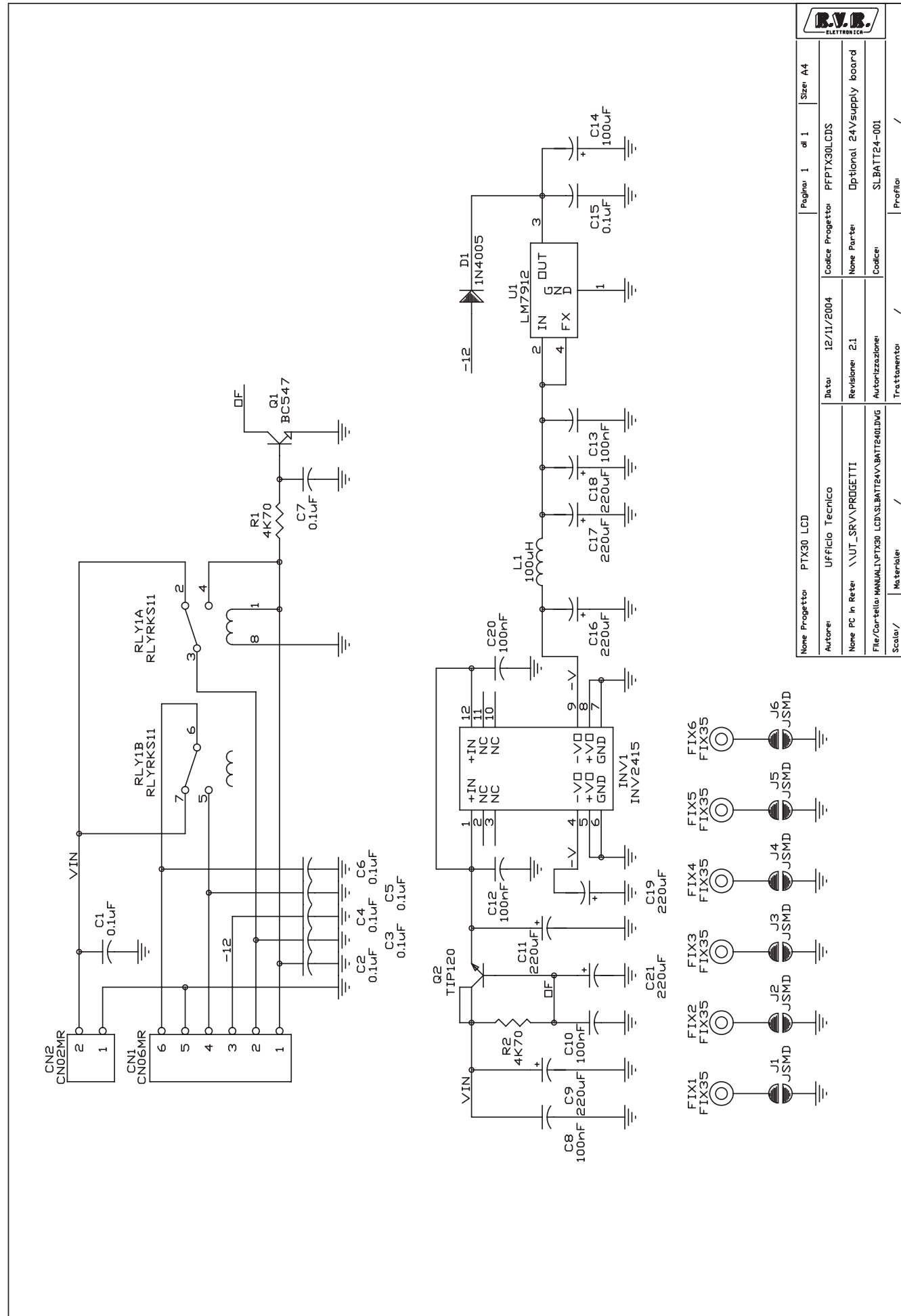
RXAES

38	C22	CAP	1	100nF	C0805 10
39	C23	CAP	1	47uF	AECAP 47
40	C24	CAP	1	220P	C0805 22
41	C25	CAP	1	220p	C0805 22
42	C26	CAP	1	220p	C0805 22
43	C27	CAP	1	220p	C0805 22
44	C28	CAP	1	220p	C0805
45	C29	CAP	1	47uF	AECAP
46	C39	CAP	1	100nF	C0805
47	C31	CAP	1	220p	C0805
48	C32	CAP	1	100nF	C0805
49	C35	CAP	1	100nF	C0805
50	C36	CAP	1	100nF	C0805
51	C37	CAP	1	100nF	C0805
52	C38	CAP	1	47uF	AECAP
53	C39	CAP	1	47uF	AECAP
54	C40	CAP	1	100nF	C0805
55	C41	CAP	1	100nF	C0805
56	C42	CAP	1	100nF	C0805
57	C43	CAP	1	10nf	C0805
58	C44	CALD	1	100nF	C0805
59	C45	CAP	1	10nF	C0805
60	C46	CAP	1	10nF	CO805
61	CN1	CON	12		SIP12
62	D1	DIO	1	1N4148	MLL345
63	EQ1	UND	1		TORX176
64	J2	CON	3		HEADER03
64	J3	JUM	1		JUMPER
65	L1	IND	1	FLSR	RM77
66	L2	IND	1	FL5R	RM77
67	L3	IND	1	FLSR	RM77
68	L4	IND	1		BLO1
69	L5	IND	1		BLO1
70	L6	IND	1		BLO1
71	R1	RES	1	100	R0805
72	R2	RES	1	220K	R0805
73	R8	RES	1	10	R0805
74	R9	RES	1	3K32	R0805
75	R10	RES	1	3K32	R0805
76	R12	RES	1	1K58	R0805
77	R13	RES	1	1K58	R0805
78	R14	RES	1	3K32	R0805
79	R15	RES	1	3K32	R0805
80	R16	RES	1	10K	R0805

81	R17	RES	1	10K	R0805
82	R18	RES	1	75	R0805
83	Rlg	RES	1	10	R0805
84	R20	RES	1	10	R0805
85	R21	RES	1	2K2	R0805
86	R22	RES	1	150	R0805
87	R23	RES	1	2K2	R0805
88	R25	RES	1	2K2	R0805
89	R26	RES	1	2K2	R0805
90	S1	UND	1		JACK-APJ20
91	S2	UND	1		ARC5500
92	TF1	UND	1		TRASF-DIG_
93	TF2	UND	1		NEUTRIK1
94	U1	UND	1		C54340
95	U3	TTL	4		74HCO2-S01
96	U6	ANA	2		TL072-S08
97	U7	ANA	1		LM78L08ACZ
98	U8	CMO	4		ADG211AVR



Nome Progetto: PTX30 LCD		Pagina: 1 di 1	Size: A3
Autore: Ufficio Tecnico	Data: 18/06/03	Codice Progetto: PFPTX30LCDS	
Nome PC in Rete: \\UT_SRV\PROGETTI	Revisione: 2.0	Nome Parte: Digital Audio Input TRDSP	
File/Cartella: MANUAL\PTX30 LCD\TRDSP\TRDSP.DWG	Autorizzazione:	Codice: TRDSP	
Scala: /	Materiale: /	Trattamento: /	Profilo: /



Optional 24Vsupply board - Bill of material			
SLBATT24-001			
REV. 2.1 11/12/2004			
Item	Reference	Part	Description
1	CS1	CSBATT24-001	Circuito stampato
2	INV1	INV2415	Modulo ibrido in RF
3	CN1	CN06MR	Conn. morsetto 06 pin F c.s.
4	RLY1	RLYRKS11	Rele' con bobina 2V 24V
5	C1	0.1µF	Cond. ceramico p. 5mm
6	C2	0.1µF	Cond. ceramico p. 5mm
7	C3	0.1µF	Cond. ceramico p. 5mm
8	C4	0.1µF	Cond. ceramico p. 5mm
9	C5	0.1µF	Cond. ceramico p. 5mm
10	C6	0.1µF	Cond. ceramico p. 5mm
11	R1	4K70	Res. 1/4 W 1%
12	C7	0.1µF	Cond. ceramico p. 5mm
13	Q1	BC547	Tr. in TO 92
14	C8	100nF	Cond. poliestere p. 5mm
15	C9	220µF	Cond. el. ver. 16V p. 2.5mm
16	R2	4K70	Res. 1/4 W 1%
17	C10	100nF	Cond. poliestere p. 5mm
18	C11	220µF	Cond. el. ver. 16V p. 2.5mm
19	C12	100nF	Cond. poliestere p. 5mm
20	L1	100µH	Impedenza
21	C13	100nF	Cond. poliestere p. 5mm
22	D1	1N4005	Diodo silicio
23	C14	100µF	Cond. el. ver. 25V p. 2.5mm
24	C15	0.1µF	Cond. ceramico p. 5mm
25	CN2	CN02MR	Conn. morsetto 02 pin F c.s.
26	U1	LM7912	3-Terminal negative regulator
27	C16	220µF	Cond. el. ver. 16V p. 2.5mm
28	C17	220µF	Cond. el. ver. 16V p. 2.5mm
29	C18	220µF	Cond. el. ver. 16V p. 2.5mm
30	C19	220µF	Cond. el. ver. 16V p. 2.5mm
31	C20	100nF	Cond. poliestere p. 5mm
32	C21	220µF	Cond. el. ver. 16V p. 2.5mm
33	Q2	TIP120	Tr. in TO 92