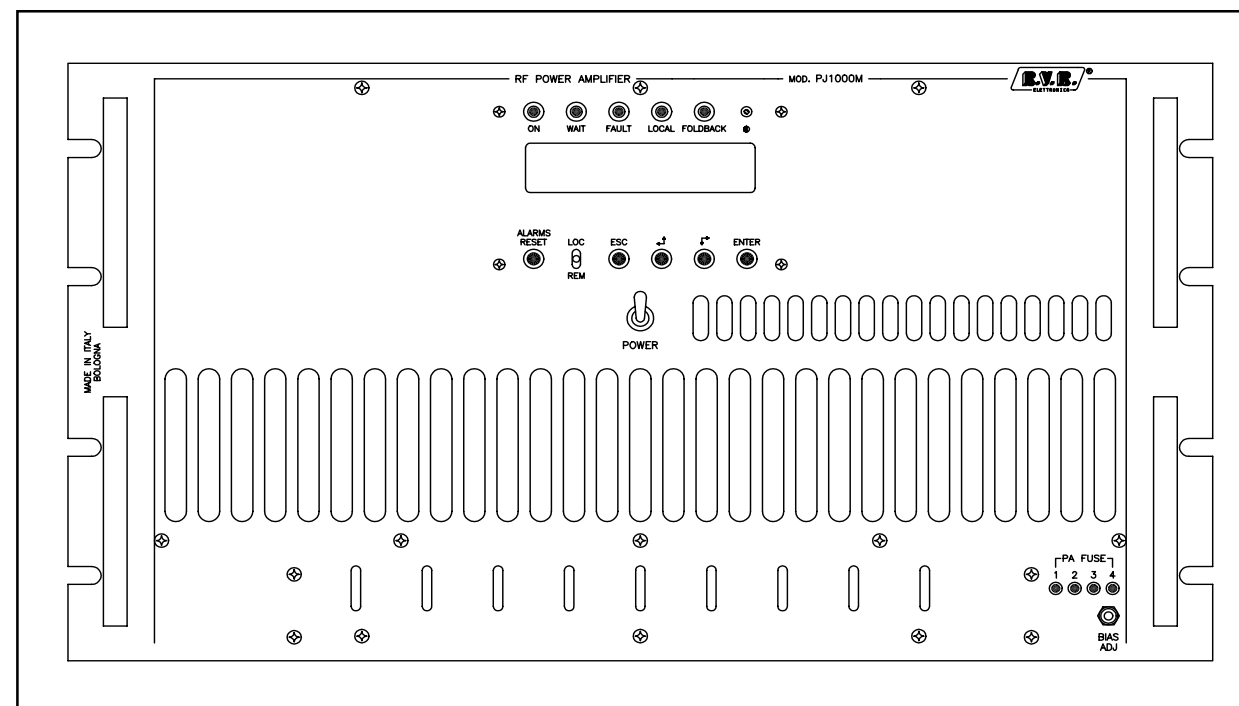


PJ1000M



User Manual Volume 2: Technical Appendix

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

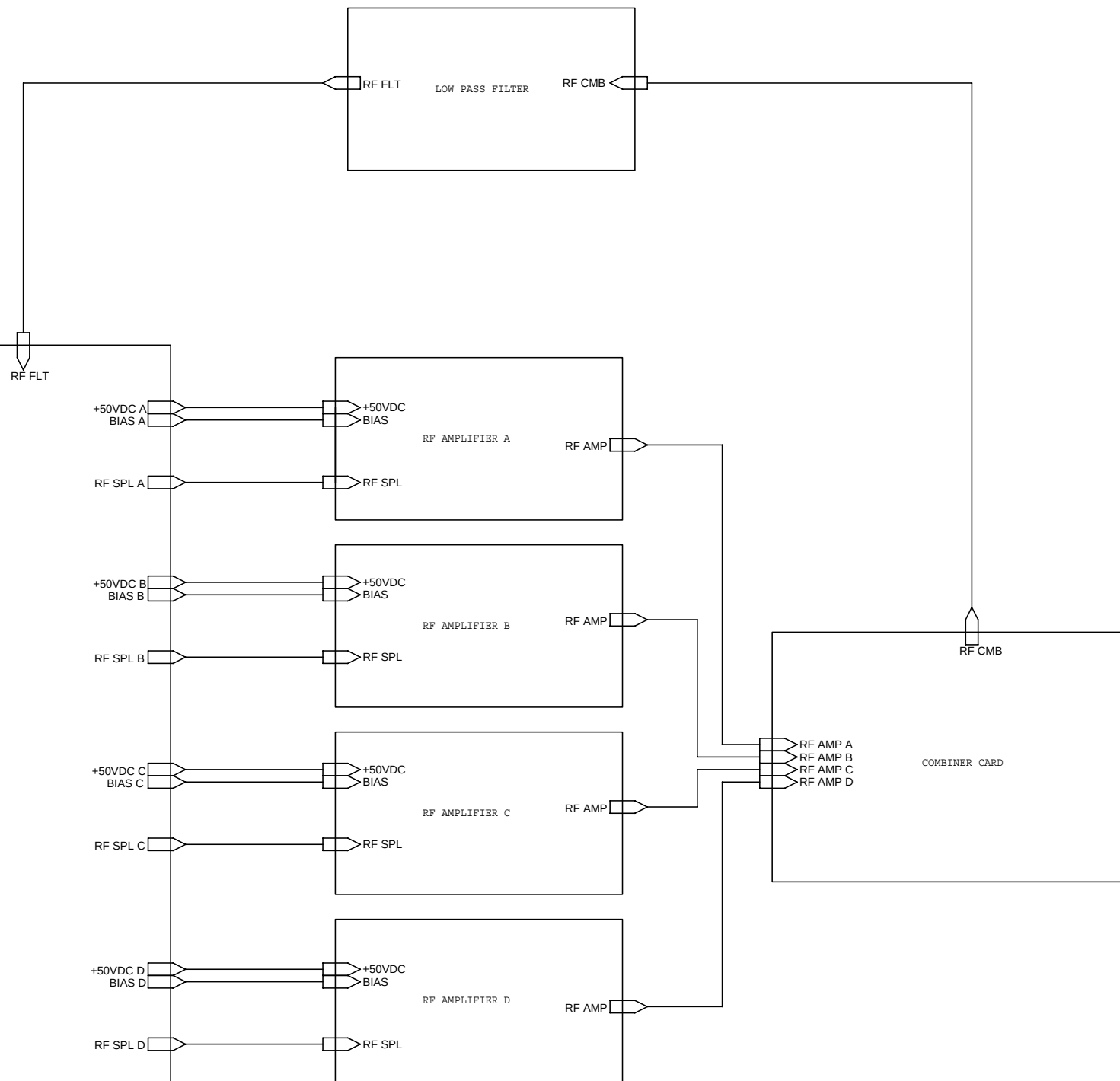
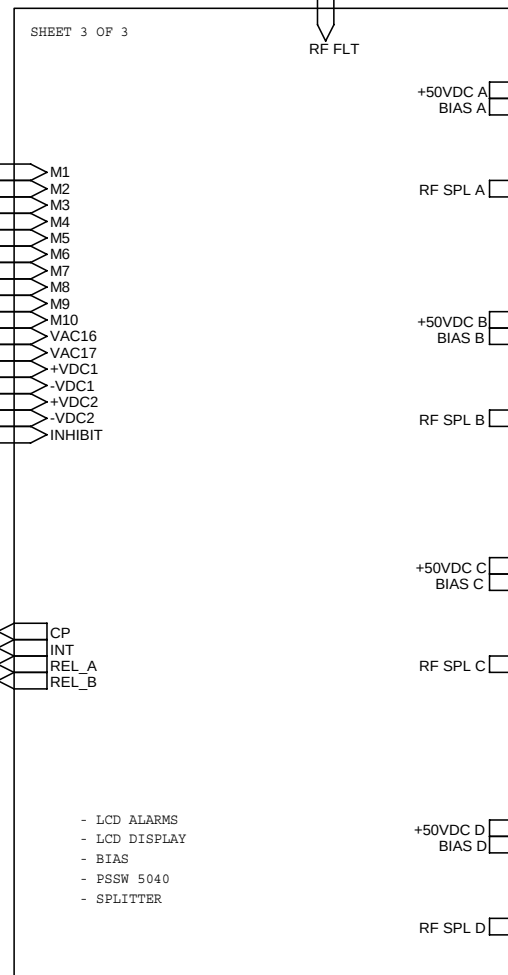
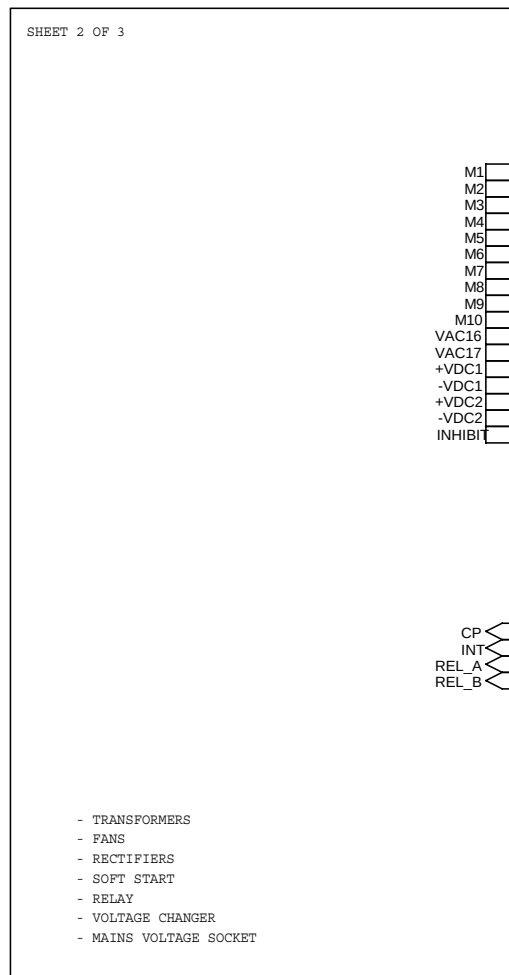
Questa parte del manuale contiene i dettagli tecnici riguardanti la costruzione delle singole schede componenti il PJ1000M LCD. L'appendice è composta dalle seguenti sezioni:

This part of the manual contains the technical details about the different boards of the PJ1000M LCD. This appendix is composed of the following sections:

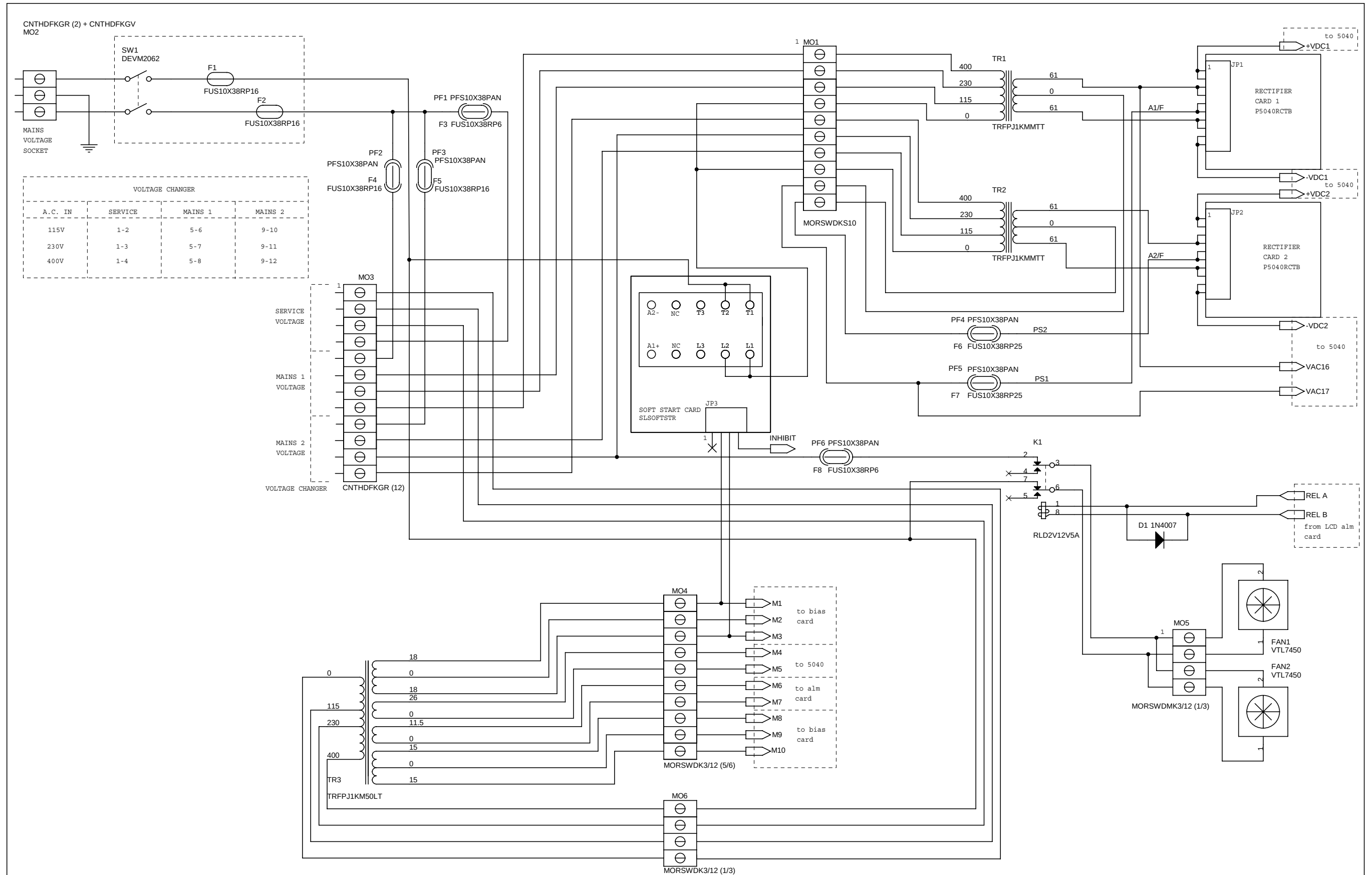
Description	RVR Code	Vers.	Page
Wiring diagrams	WIPJ1KLCMLT	2.2	1
R.F. Power Amplifier Module	SLRFPJ1KMC	2.1	6
Wilkinson "4-Way" Splitter Card	SLSPPJ1KMLCD	2.1	8
Wilkinson "4-Way" Combiner Card	CSCMB-OUT/A	2.0	10
CPU Analog Section	SLPROTPJ-HCL	2.2	12
LPF + Directional Coupler	SLLPFPJ1KSTR	2.2	18
Switching Power Supply	PSSW5040	2.0	21
Soft Start Card	LSOFTSTR	2.0	28
Bias Control Card	SLCTRLPJ1KLC	2.0	30
CPUPJLCD adaptor	SLADPCNP RTPJ	2.0	34
Pass-Through Board	SLFILPJ1KM	2.0	36

Document History

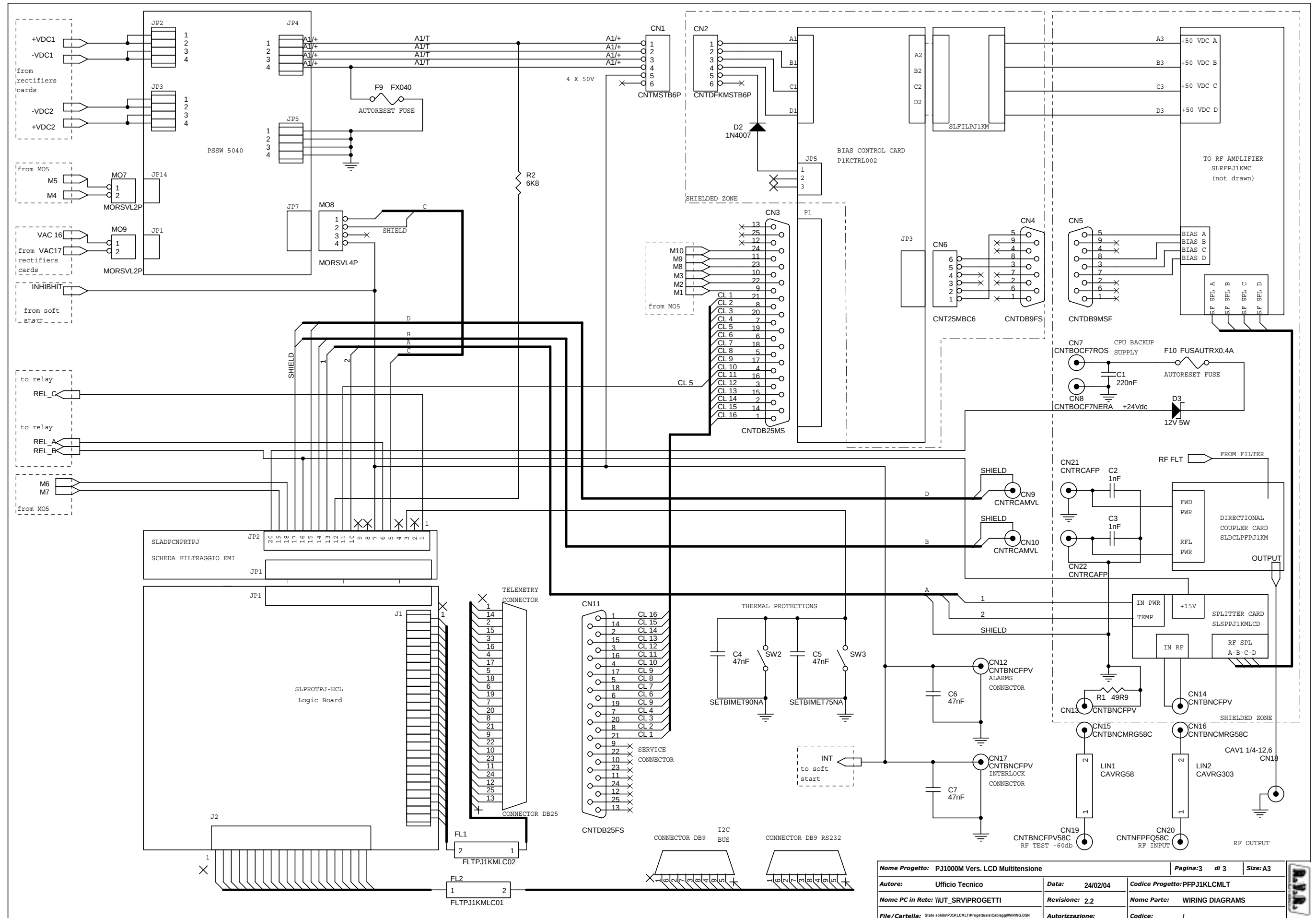
Date	Version	Reason	Editor
02/07/03	2.0	First Release in A3 Format	G. De Donno
04/09/03	2.1	Minor Corrections	J. Berti
16/09/03	2.2	Add SLFILPJ1KM Board informations	J. Berti
24/02/04	2.3	Wiring Diagrams Update	J. Berti



Nome Progetto: PJ1000M Vers. LCD Multitensione			Pagina: 1	di 3	Size: A3
Autore: Ufficio Tecnico		Data: 24/02/04	Codice Progetto: PFPJ1KLCMLT		
Nome PC in Rete: \IUT_SRVIPROGETTI		Revisione: 2.2	Nome Parte: WIRING DIAGRAMS		
File/ Cartella: Stato solidoPJ1KLCMLTProgettualaCablaggiWIRING.DSN		Autorizzazione:	Codice: /		



Nome Progetto: PJ1000M Vers. LCD Multitensione		Pagina: 2 di 3	Size: A3
Autore: Ufficio Tecnico	Data: 24/02/04	Codice Progetto: PFPJ1KLCMLT	
Nome PC in Rete: \UT_SRV\PROGETTI	Revisione: 2.2	Nome Parte: WIRING DIAGRAMS	
File/ Cartella: \Stato Solido\PJ1KLCMLT\Progettuali\Cablaggi\WIRING.DSN	Autorizzazione:	Codice: /	



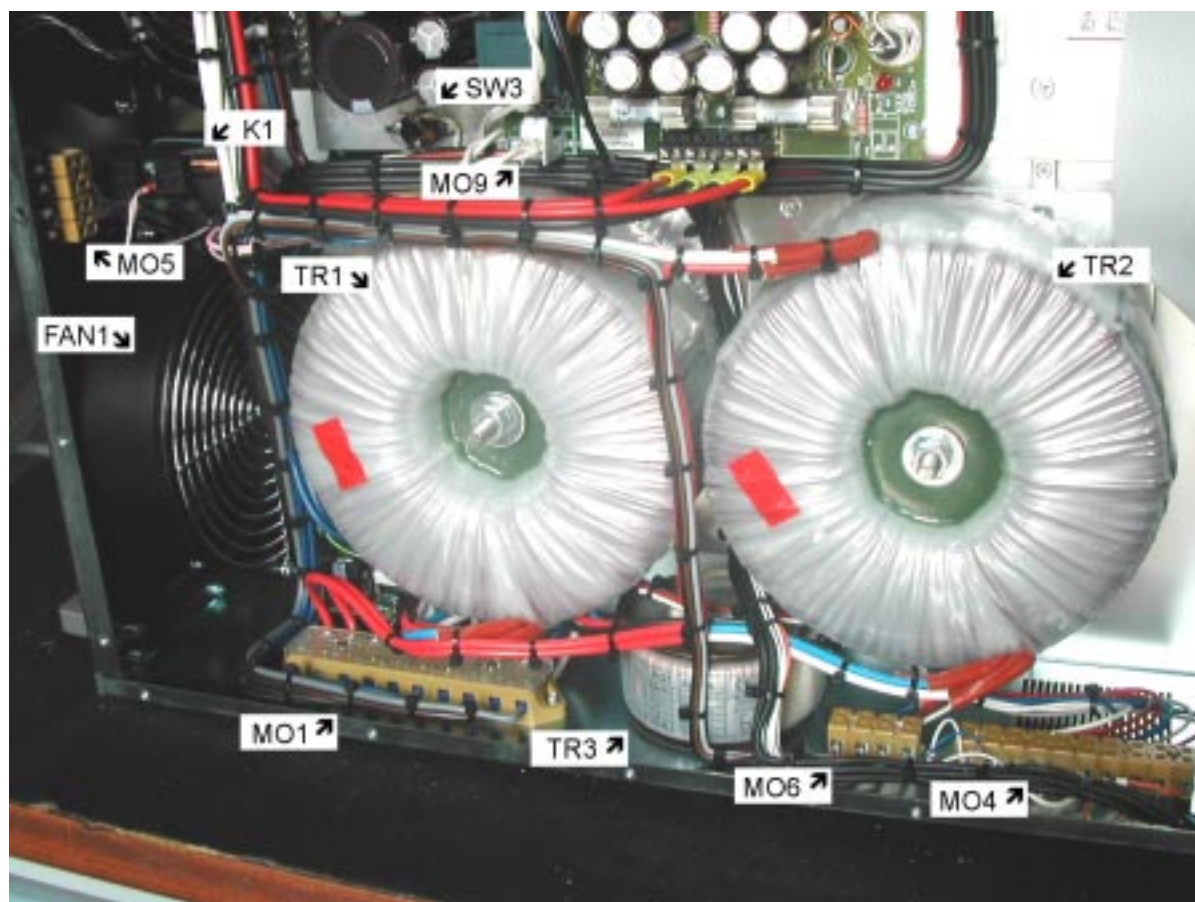


Photo 1

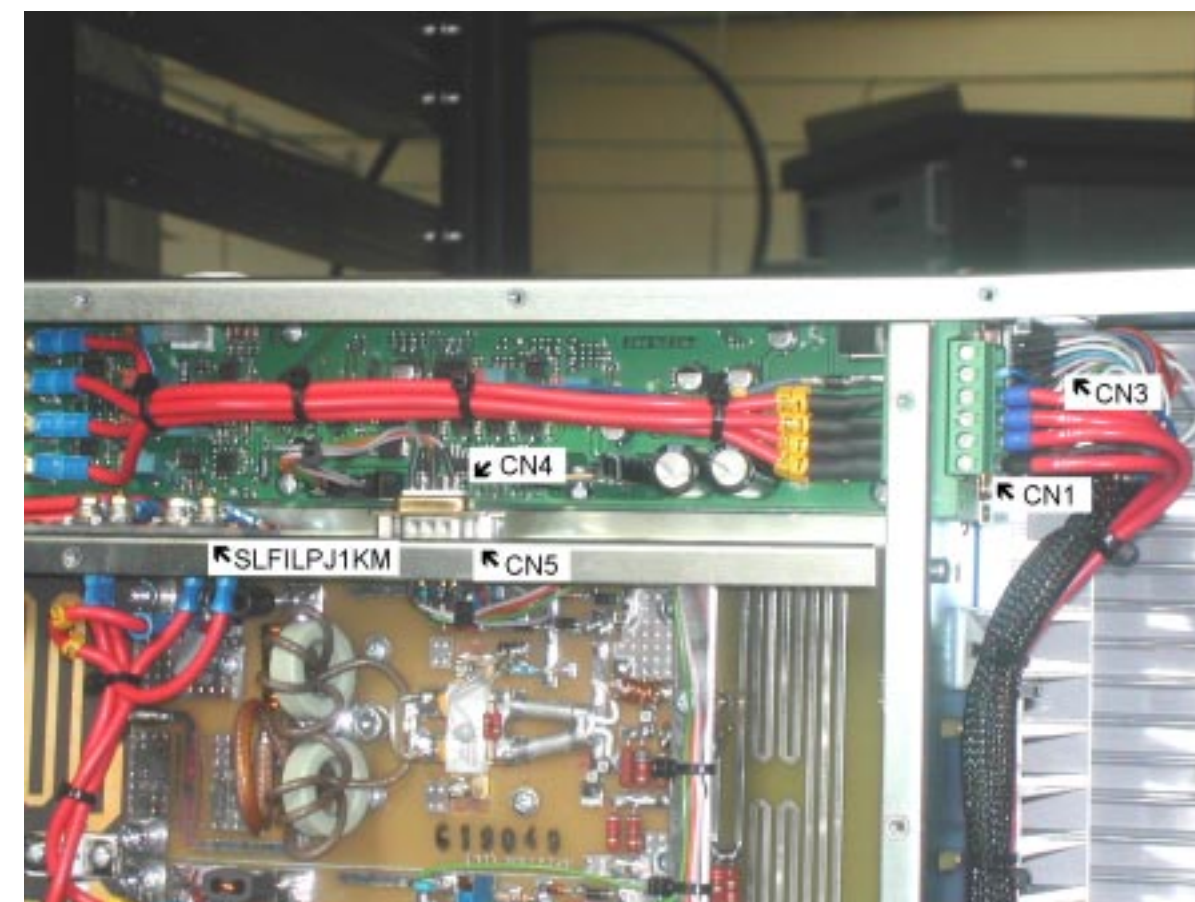


Photo 3

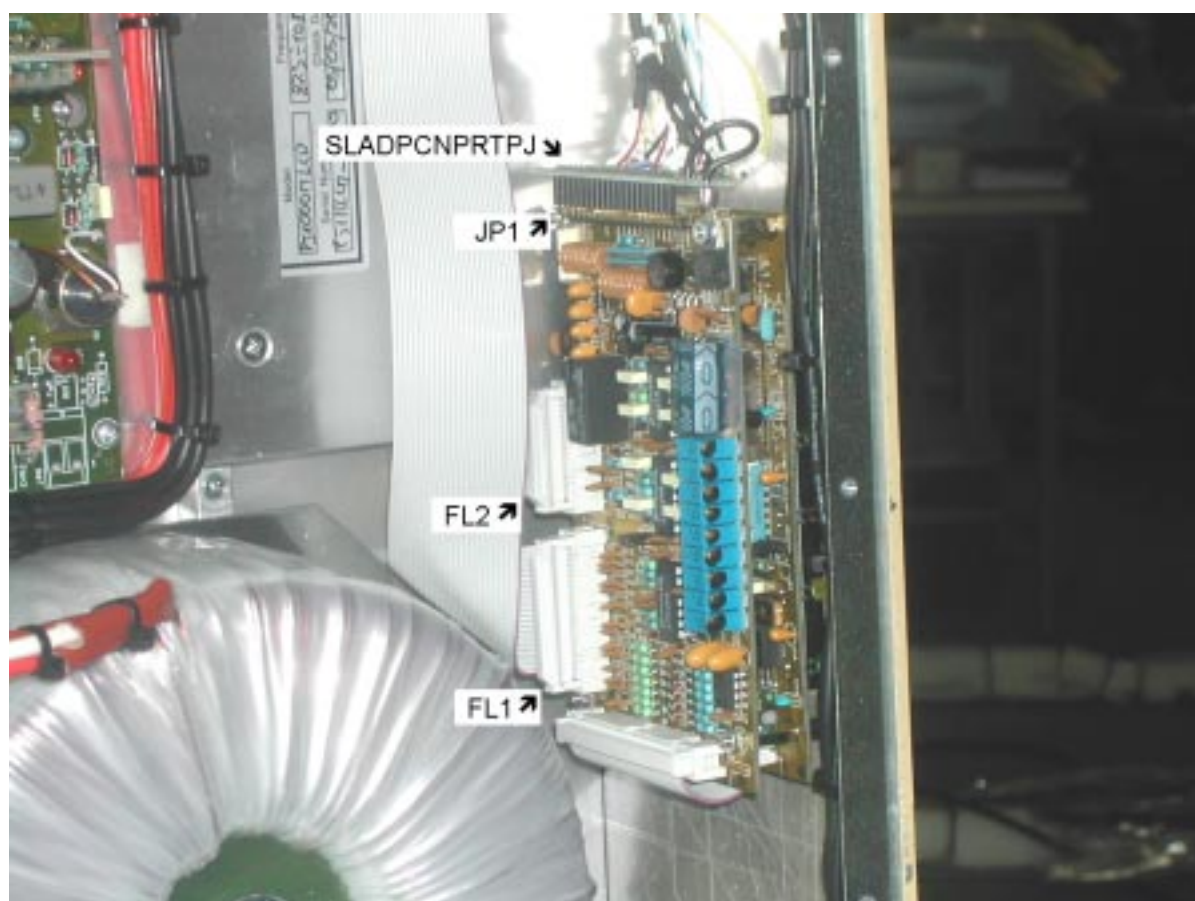


Photo 2

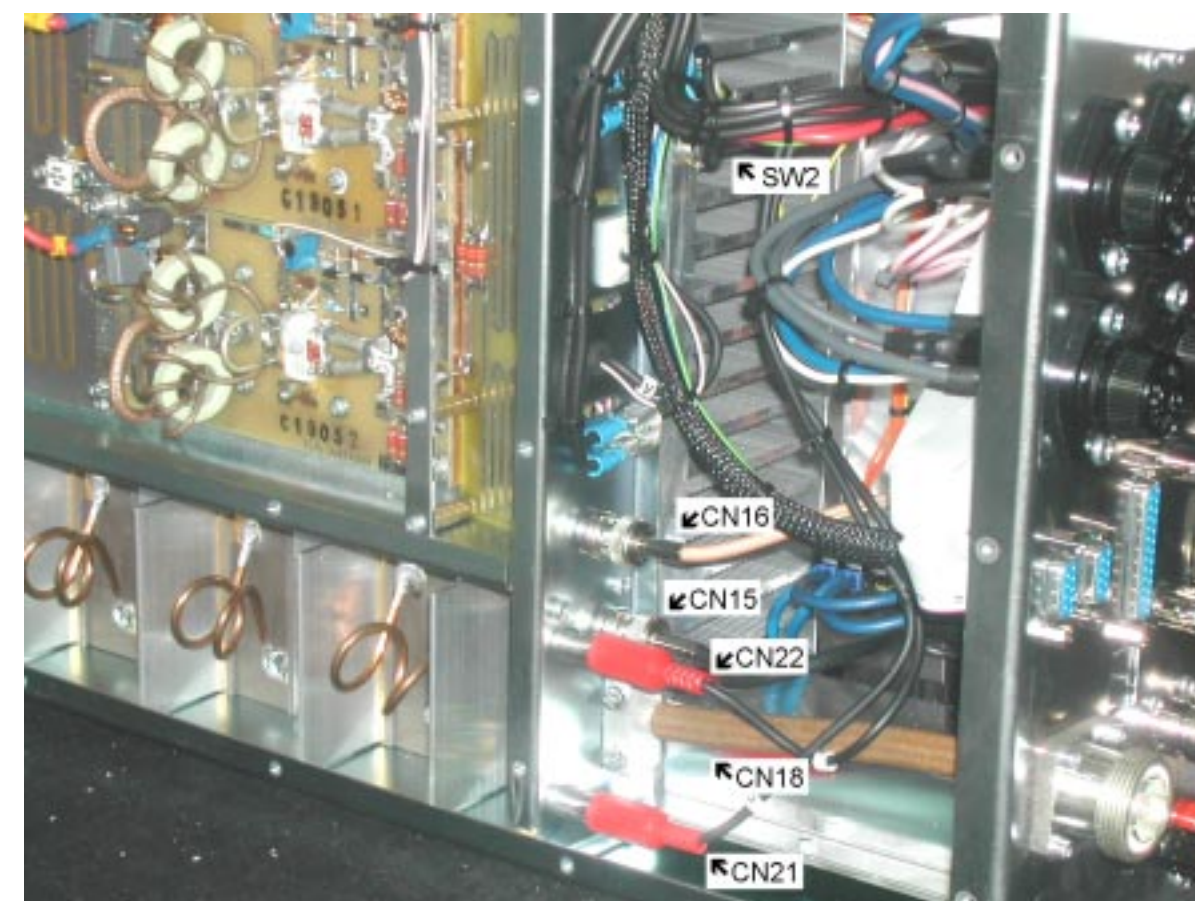


Photo 4

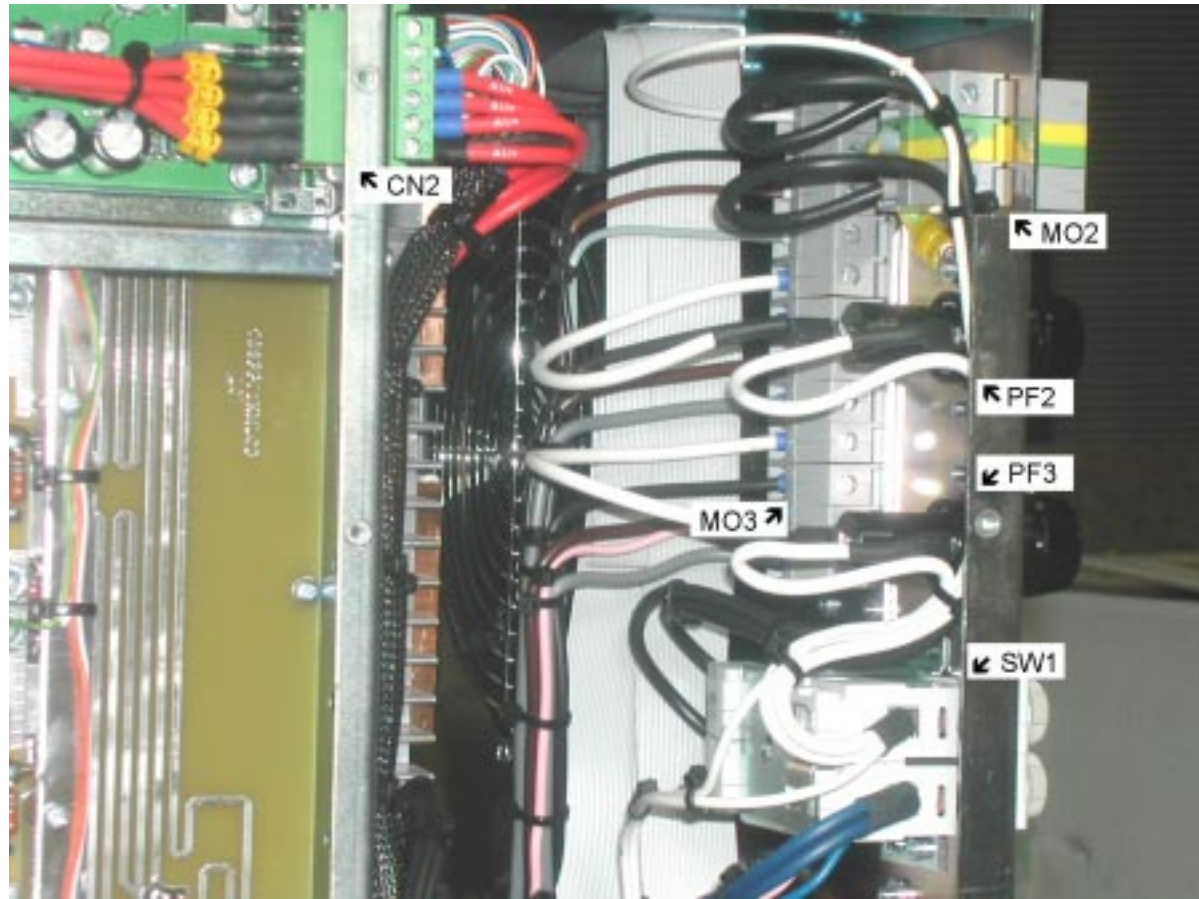


Photo 5

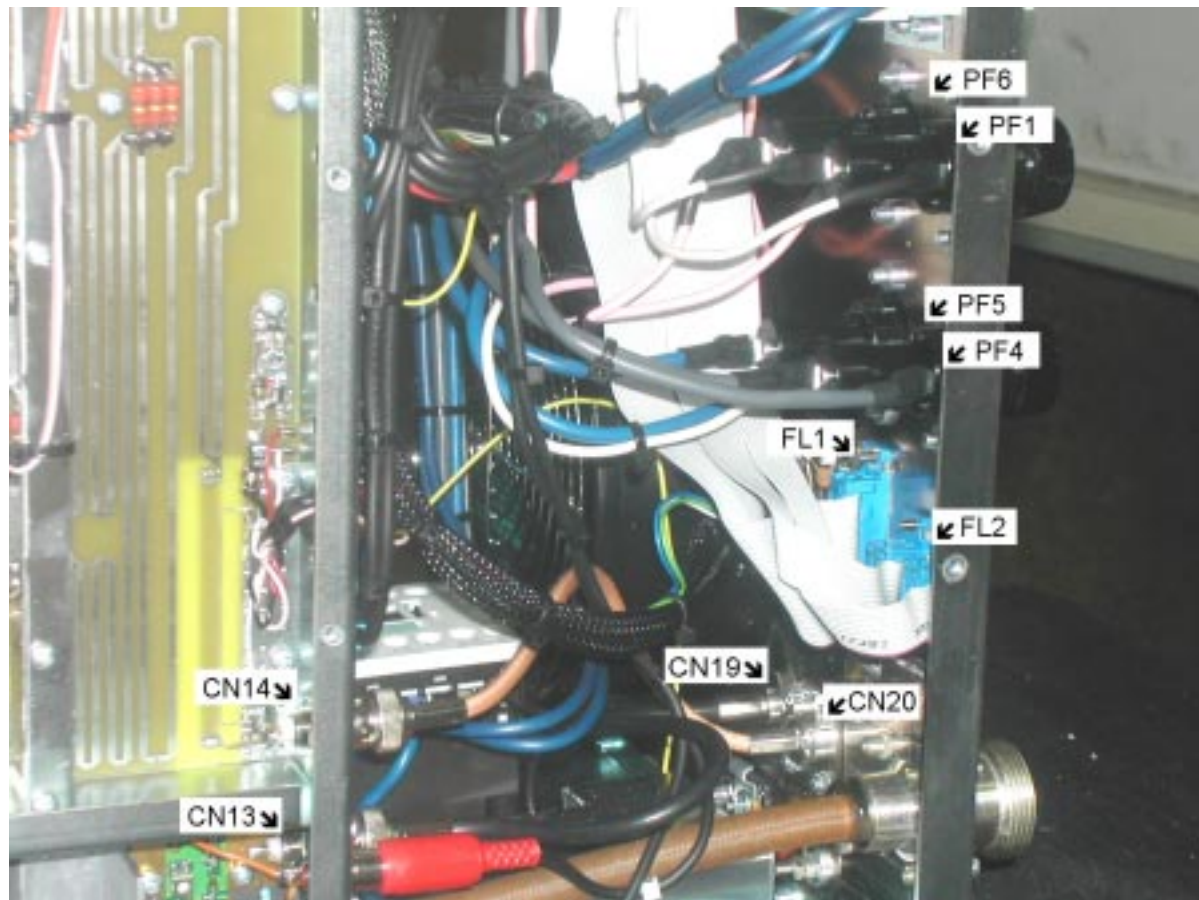
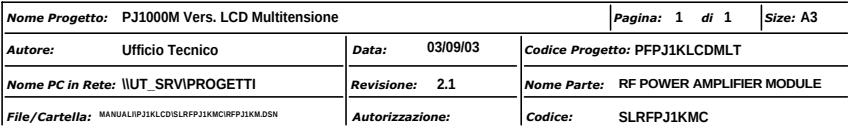
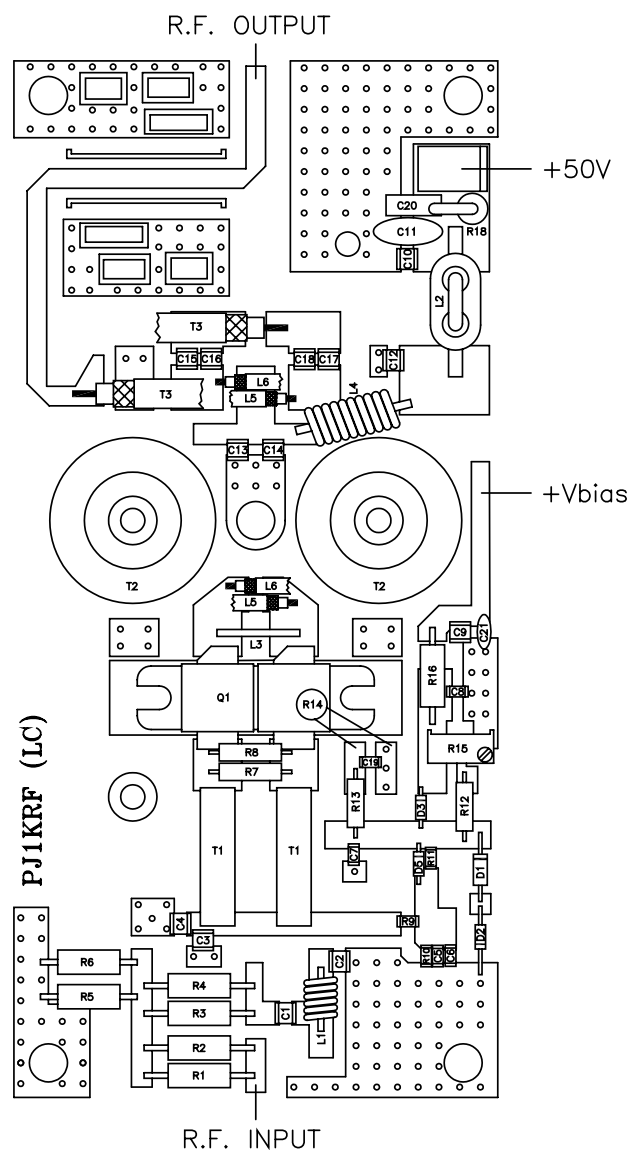


Photo 6

PJ1000M Vers. LCD Multitensione Wiring
Version: 2.0 Date: 27/05/03

Item	Q.ty	Reference	Part	Photo
1	1	CN1	CNTMSTB6P	3
2	1	CN2	CNTDFKMSTB6P	5
3	1	CN3	CNTDB25MS	3
4	1	CN4	CNTDB9FS	3
5	1	CN5	CNTDB9MSF	3
6	1	CN6	CNT25MBC6	
7	1	CN7	CNTBOCF7ROS	
8	1	CN8	CNTBOCF7NERA	
9	2	CN10,CN9	CNTRCAMVL	
10	1	CN11	CNTDB25FS	
11	4	CN12,CN13,CN14,CN17	CNTBNCFPV	6
12	2	CN16,CN15	CNTBNCMRG58C	4
13	1	CN18	CAV1 1/4-12,6	4
14	1	CN19	CNTBNCFPV58C	6
15	1	CN20	CNTNFPFQ58C	6
16	2	CN21,CN22	CNTRCAFP	4
17	1	C1	220nF	
18	2	C3,C2	1nF	
19	4	C4,C5,C6,C7	47nF	
20	2	D2,D1	1N4007	
21	1	D3	12V 5W	
22	2	FAN2,FAN1	VTL7450	1
23	1	FL1	FLTPJ1KMLC02	2 - 6
24	1	FL2	FLTPJ1KMLC01	2 - 6
25	4	F1,F2,F4,F5	FUS10X38RP16	
26	2	F8,F3	FUS10X38RP6	
27	2	F7,F6	FUS10X38RP25	
28	1	F9	FX040	
29	1	F10	FUSAUTRX0.4A	
30	1	K1	RLD2V12V5A	1
31	1	LIN1	CAVRG58	
32	1	LIN2	CAVRG303	
33	1	MO1	MORSWDKS10	1
34	1	MO2	CNTHDFKGR (2) + CNTHDFKGV	5
35	1	MO3	CNTHDFKGR (12)	5
36	1	MO4	MORSWDK3/12 (5/6)	1
37	1	MO5	MORSWDMK3/12 (1/3)	1
38	1	MO6	MORSWDK3/12 (1/3)	1
39	2	MO9,MO7	MORSVL2P	1
40	1	MO8	MORSVL4P	
41	6	PF1,PF2,PF3,PF4,PF5,PF6	PFS10X38PAN	5 - 6
42	1	R1	49R9	
43	1	SW1	DEVM2062	5
44	1	SW2	SETBIMET90NA	4
45	1	SW3	SETBIMET75NA	1
46	2	TR2,TR1	TRFPJ1KMMTT	1
47	1	TR3	TRFPJ1KM50LT	1

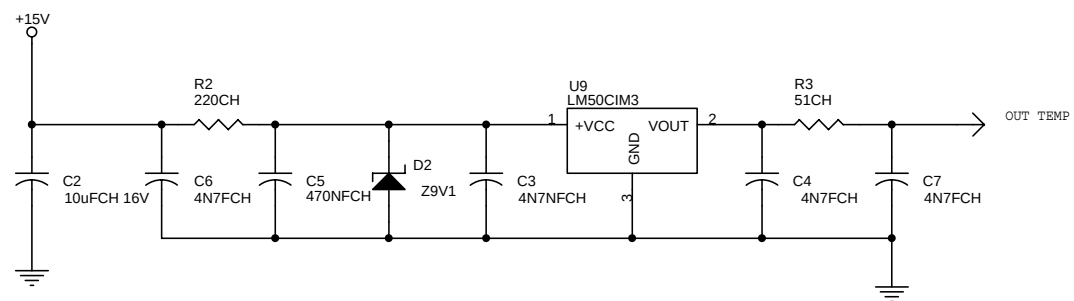
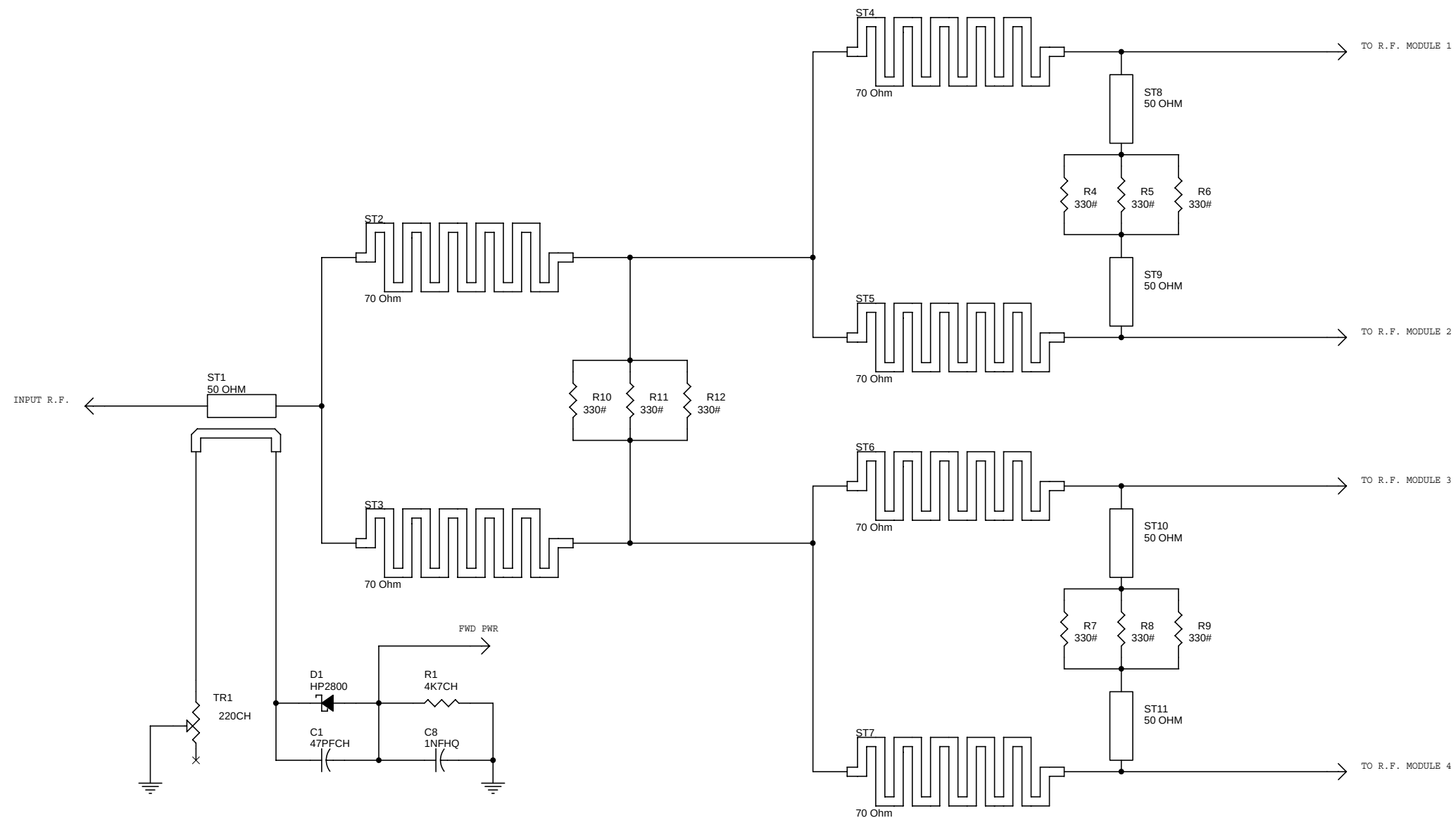




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Autore: Ufficio Tecnico	Data: 03/09/03	Codice Progetto: PFPJ1KLCML.T		
Nome PC in Rete: \\\UT_SRV\PROGETTI	Revisione: 2.1	Nome Parte R.F. Power Amplifier Module Layout		
File/Carrello: MANUALEPJ1KLCML.SLRFPJ1KMC\LAYR.DWG	Autorezzazione:	Codice: SLRFPJ1KMC		
Scala: 1:1	Materiali:	Tolleranza:	Profilo:	/

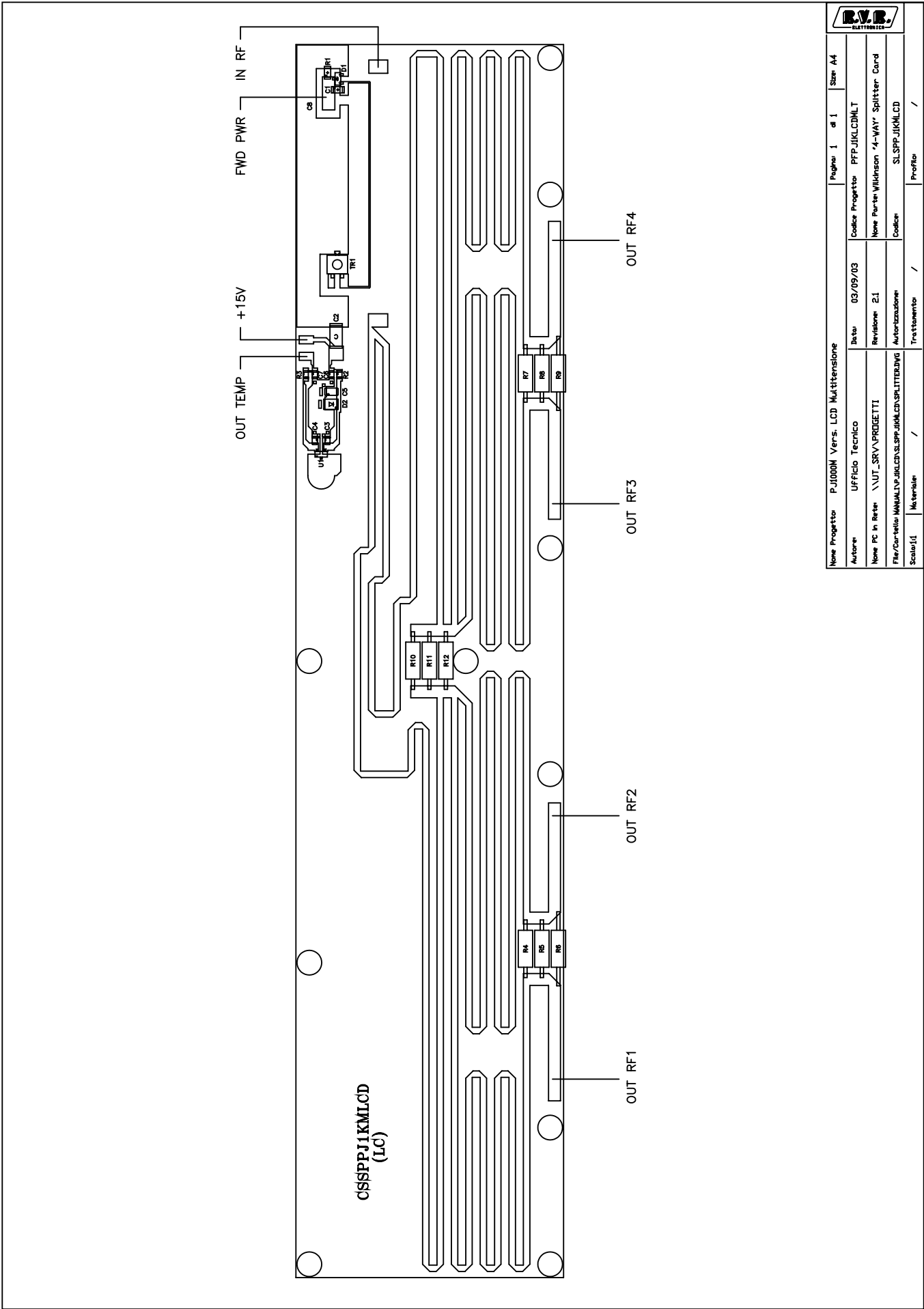
R.F. POWER AMPLIFIER
SLRFPJ1KMC
Revision: 2.1

Item	Quantity	Reference	Part	Description
1	1	R18	1.2\$	RESISTOR 5W
2	4	R1,R2,R3,R4	5.6#	RESISTOR 2W
3	2	R7,R8	22**	RESISTOR 1W 5%
4	1	R16	47#	RESISTOR 2W
5	1	R9	100CH	CHIP RESISTOR
6	1	R12	270H 1W	RESISTOR 1W
7	2	R5,R6	820#	RESISTOR 2W
8	1	R11	1KCH	CHIP RESISTOR
9	1	R10	1K5CH	CHIP RESISTOR
10	1	R13	8K2 1%	RESISTOR 1/4W 1%
11	1	R14	10KNTC	NTC
12	1	R15	M1K	TRIMMER MULTIGIRI
13	1	C2	68PFHQ	HIGHT Q CAPACITOR
14	1	C1	150PFHQ	HIGHT Q CAPACITOR
15	11	C3,C4,C10,C12,C13,C14,C15,C16,C17,C18,C9	470PFHQ	HIGHT Q CAPACITOR
16	5	C5,C6,C7,C8,C19	1NFCH	CERAMIC CHIP CAPACITOR
17	1	C11	100NF	CERAMIC CAPACITOR
18	1	C20	680NFP	POLIESTER CAPACITOR
19	1	L2	POWER IND.	RF BINOC. CHOCKE
20	1	L1	L64.5RVR0.7	6 SP DIA 4.5 RAME SMAL 0.7mm
21	1	L4	L105RVR2	10 SP DIA 5 F 2mm
22	1	L3	BU6012RVR2	BOB L60MM D12 FILO ARG 2MM
23	1	T1	04.01	TRASE. RE. CAVO 25 OHM
24	1	T3	RG303	COAX CABLE RG303
25	2	L5,L6	RG316-25	CAOX CABLE RG316 25 Ohm
26	3	D2,D3,D5	1N4004	SILICON DIODE 400V



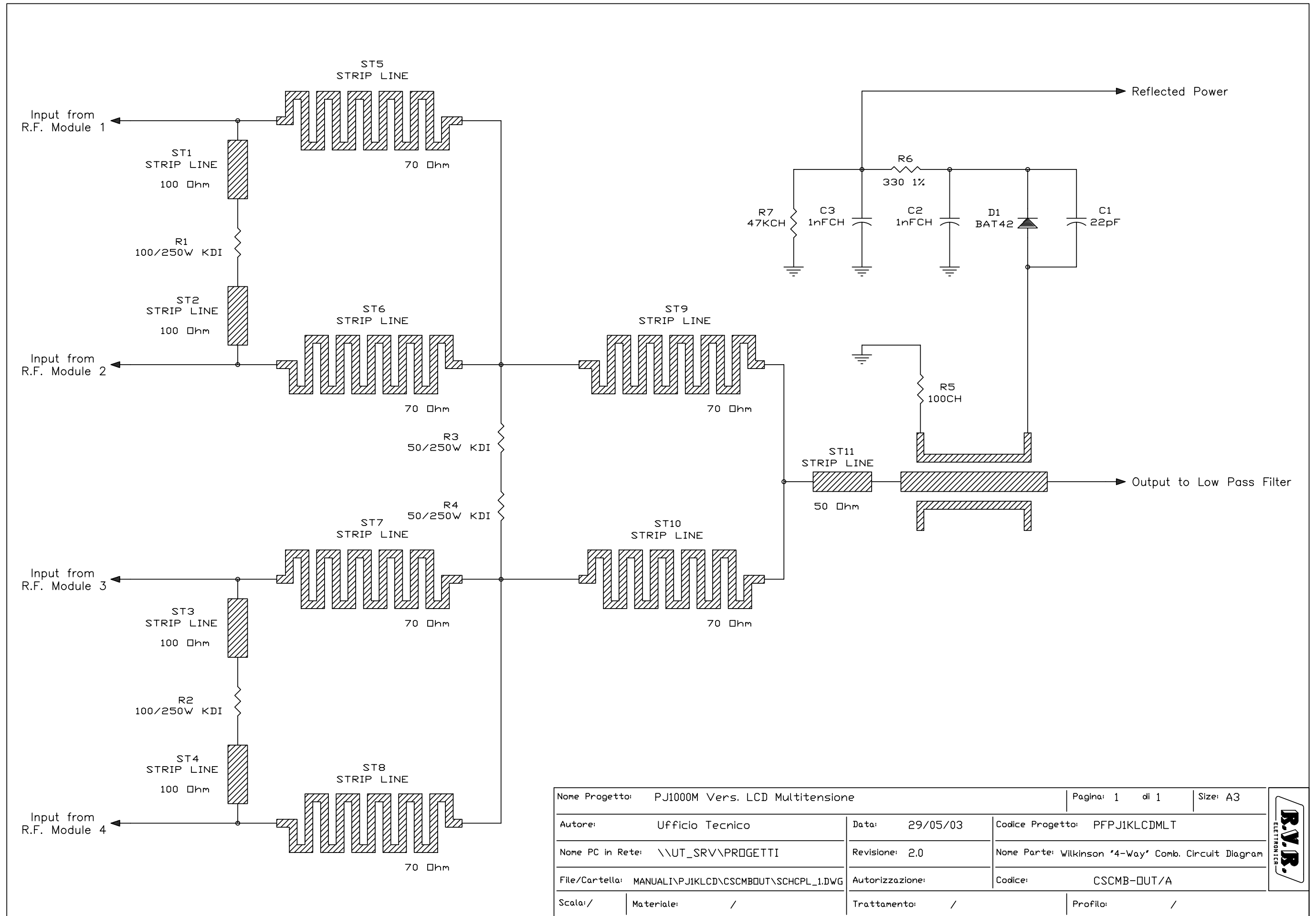
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Autore: Ufficio Tecnico	Data: 03/09/03	Codice Progetto: PFPJ1KLCMLT	
Nome PC in Rete: \\\UT_SRV\PROGETTI	Revisione: 2.1	Nome Parte: Wilkinson "4-WAY" Splitter Card	
File/Cartella: \MANUAL\PJ1KLC\SLSPJ1KMLCD\SLPLTTER.DSN	Autorizzazione:	Codice: SLSPJ1KMLCD	

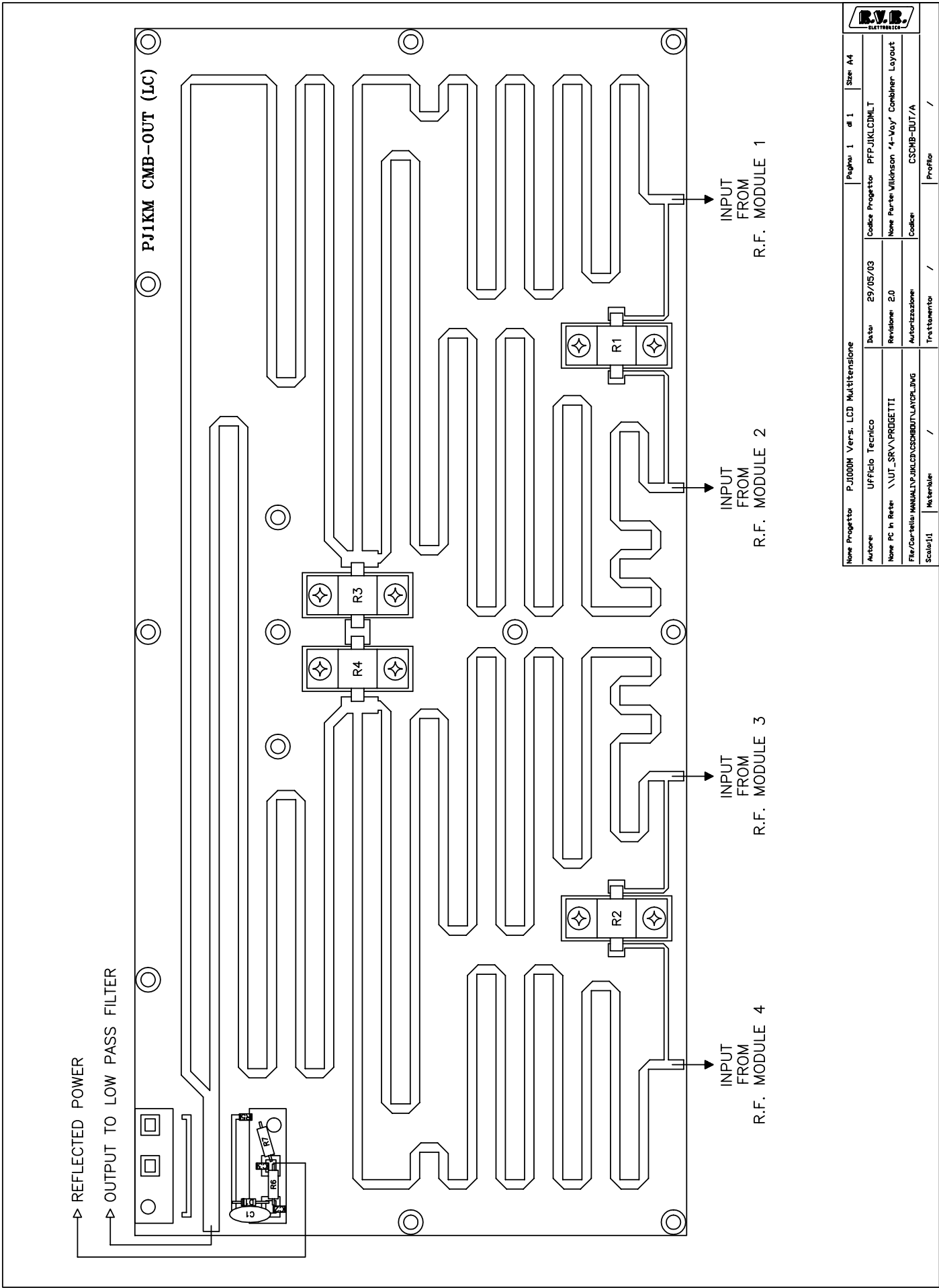




Wilkinson "4-Way" Splitter Card
SLSPPJ1KMLCD
Version: 2.1 Date: 03/09/03

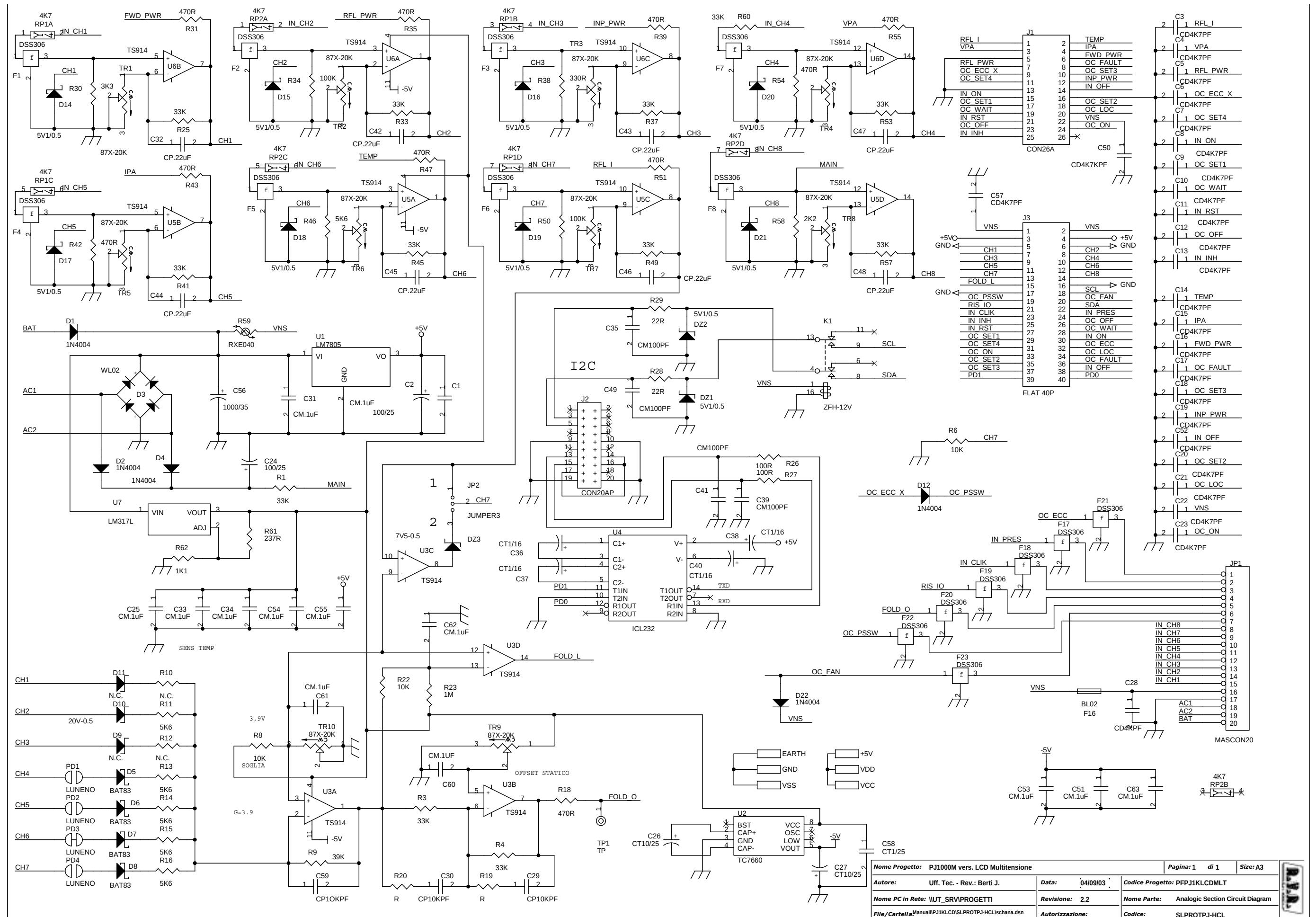
Item	Q.ty	Reference	Part	DESCRIPTION
1	1	R1	4K7CH	CHIP RESISTOR 0805
2	1	R2	220CH	CHIP RESISTOR 0805
3	1	R3	51CH	CHIP RESISTOR 0805
4	9	R4,R5,R5,R7,R8, R9,R10,R11,R12	330 2W	RESISTOR 2W
5	2	TR1	220CH	TRIMMER SMD G4BT TOKO'S
6	1	C1	47PFCH	CHIP CAPACITOR 0805
7	1	C2	10uFCH 16V	TANTALIUM CHIP CAPACITOR
8	1	C5	470NFCH	CHIP CAPACITOR 1206
9	4	C3,C4,C6,C7	4N7FCH	CHIP CAPACITOR 0805
10	1	D1	HP2800	DIODE SMD SOT23
11	1	D2	Z9V1	ZENER DIODE
12	1	U1	LM50CIM3	TEMPERATURE SENSOR
13	1	C8	1NFHQ	CHIP CAPACITOR HQ

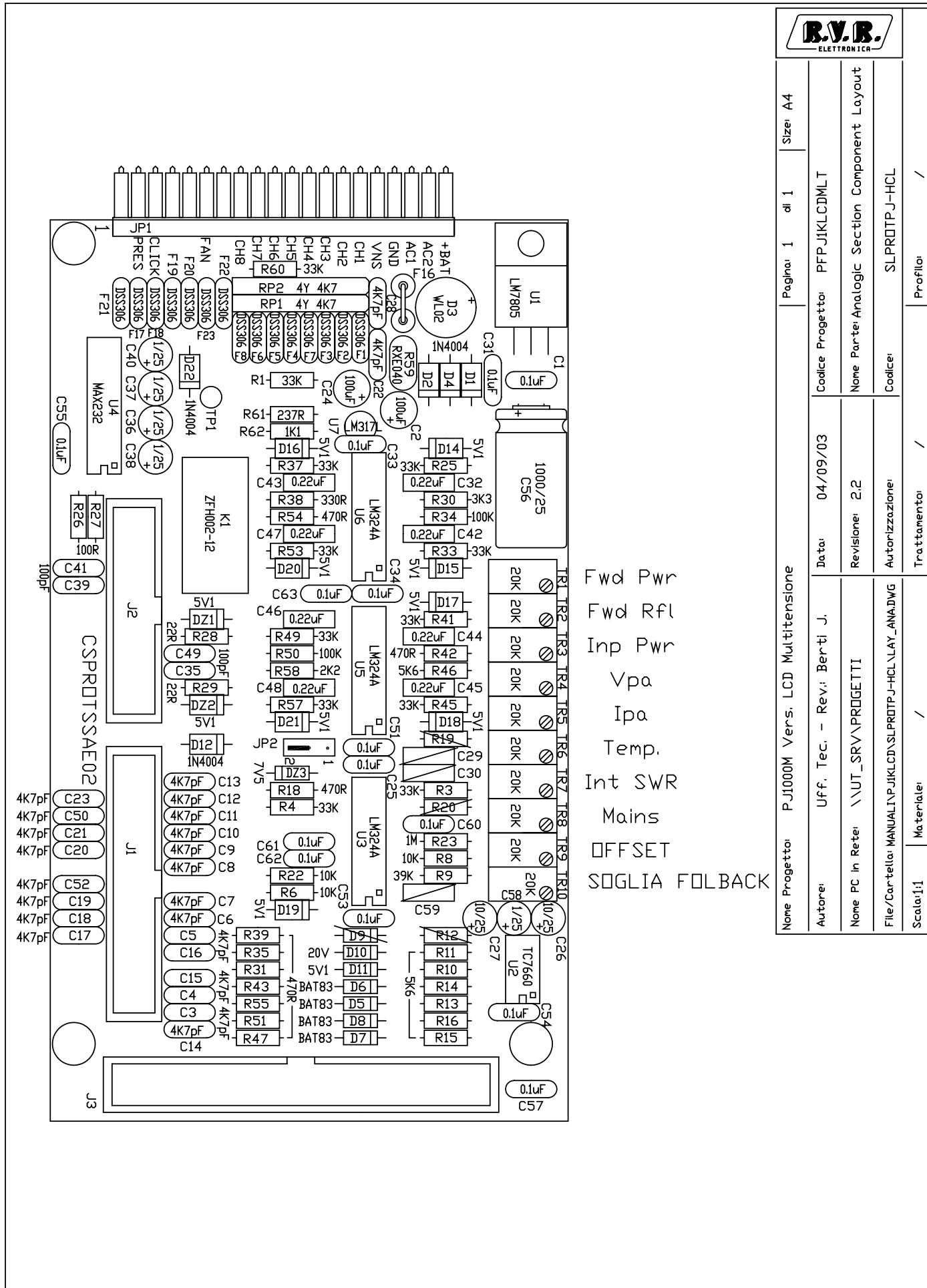




Wilkinson “4-Way” Combiner Card
CSCMB-OUT/A
Version: 2.0 Date: 27/05/03

Item	Quantity	Reference	Part	DESCRIPTION
1	2	R3,R4	50/250W KDI	RESISTENZA KDI 250W
2	1	R5	100CH	CHIP RESISTOR 1206 5%
3	2	R1,R2	100/250W KDI	RESISTENZA KDI 250W
4	1	R6	330 1%	RESISTOR 1/4W 5%
5	1	R7	47KCH	RESISTOR 1/4W 5%
6	1	C1	22PF	CERAMIC CAPACITOR NP0
7	2	C2,C3	1NFCH	CERAMIC HIGH Q
8	1	D1	BAT42	HOT CARRIER DIODE
9	12	ST1,ST2,ST3,ST4,ST5, ST6,ST7,ST8,ST9,ST10, ST11,ST12	STRIP LINE	STRIP LINE

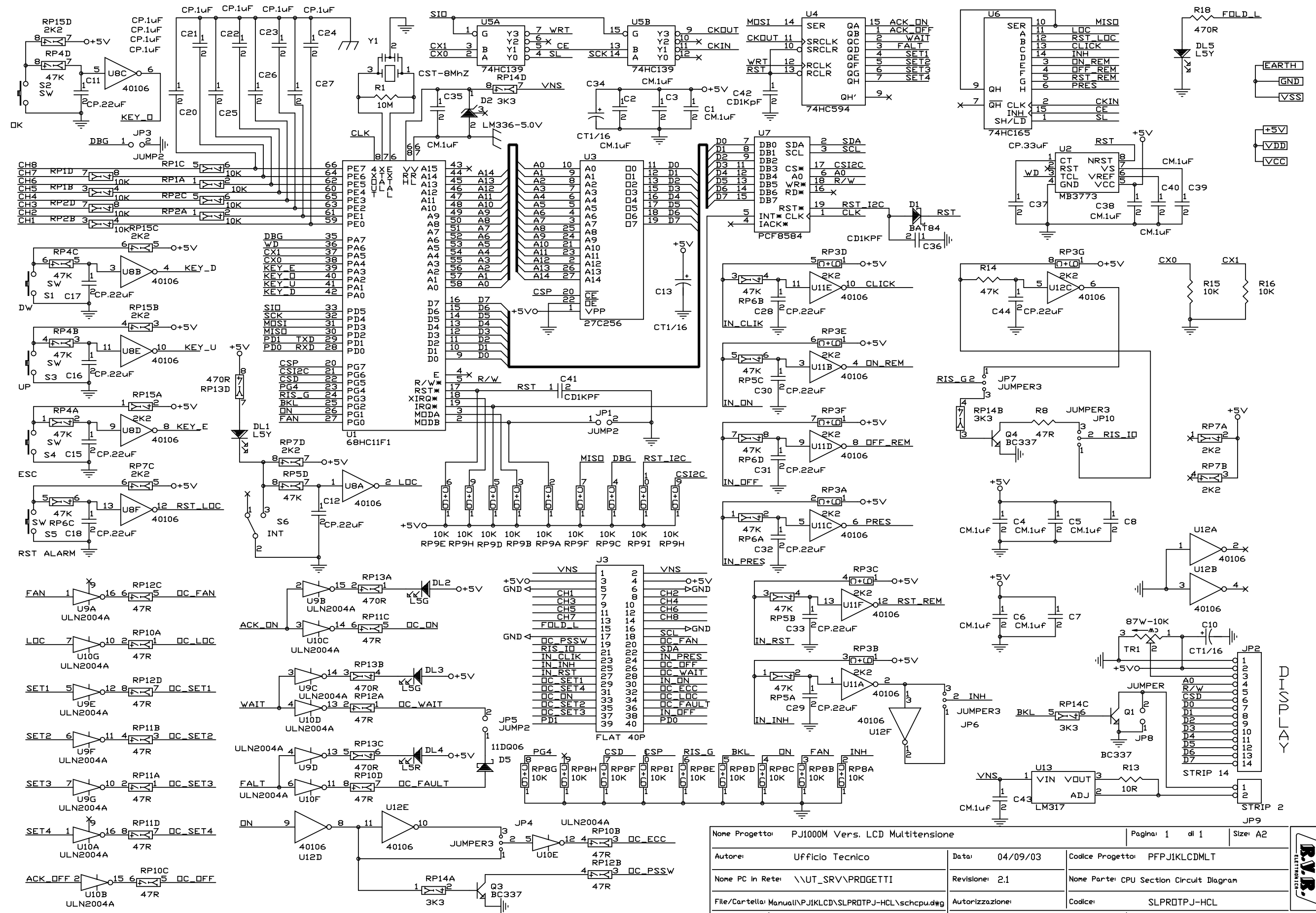


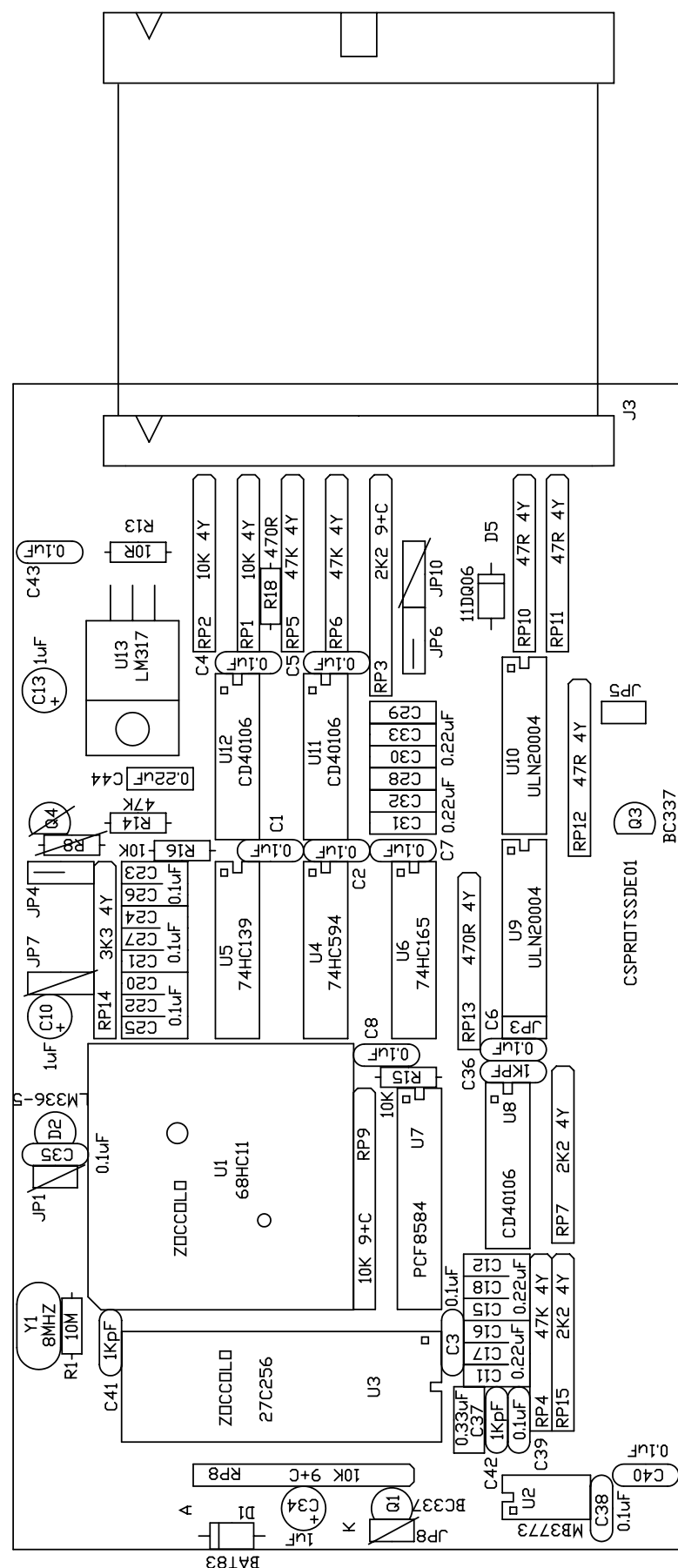


CPU Analog Section
SLPROTPJ-HCL
Version: 2.2 Date: 04/09/03

Item	Q.ty	Reference	Part
1	13	C1,C25,C31,C33,C34,C51,C53,C54,C55,C60,C61,C62,C63	CM.1uF
2	2	C24,C2	100/25
3	23	C3,C4,C5,C6,C7,C8,C9,C10,C11,C12,C13,C14,C15,C16,C17,C18,C19,C20,C21,C22,C23,C52,C57	CD4K7PF
4	2	C26,C27	CT10/25
5	1	C28	CD4KPF
6	2	C29,C30	CP10KPF
7	8	C32,C42,C43,C44,C45,C46,C47,C48	CP.22uF
8	4	C35,C39,C41,C49	CM100PF
9	4	C36,C37,C38,C40	CT1/16
10	1	C50	CD4K7KPF
11	1	C56	1000/35
12	1	C58	CT1/25
13	1	C59	CP10KPF
14	10	DZ1,DZ2,D14,D15,D16,D17,D18,D19,D20,D21	5V1/0.5
15	1	DZ3	7V5-0.5
16	5	D1,D2,D4,D12,D22	1N4004
17	1	D3	WL02
18	4	D5,D6,D7,D8	BAT83
19	4	R10,R12,D9,D11	N.C.
20	1	D10	20V-0.5
21	15	F1,F2,F3,F4,F5,F6,F7,F8,F17,F18,F19,F20,F21,F22,F23	DSS306
22	1	F16	BL02
23	1	JP1	MASCON20
24	1	JP2	JUMPER3
25	1	J1	CON26A
26	1	J2	CON20AP
27	1	J3	FLAT 40P
28	1	K1	ZFH-12V
29	4	PD1,PD2,PD3,PD4	LUNENO
30	2	RP1,RP2	4K7
31	12	R1,R3,R4,R25,R33,R37,R41,R45,R49,R53,R57,R60	33K
32	3	R6,R8,R22	10K
33	1	R9	39K
34	6	R11,R13,R14,R15,R16,R46	5K6
35	10	R18,R31,R35,R39,R42,R43,R47,R51,R54,R55	470R
36	2	R19,R20	R
37	1	R23	1M
38	2	R26,R27	100R
39	2	R28,R29	22R
40	1	R30	3K3

41	2	R50,R34	100K
42	1	R38	330R
43	1	R58	2K2
44	1	R59	RXE040
45	1	R61	237R
46	1	R62	1K1
47	1	TP1	TP
48	10	TR1,TR2,TR3,TR4,TR5,TR6, TR7,TR8,TR9,TR10	87X-20K
49	1	U1	LM7805
50	1	U2	TC7660
51	3	U3,U5,U6	TS914
52	1	U4	ICL232
53	1	U7	LM317L

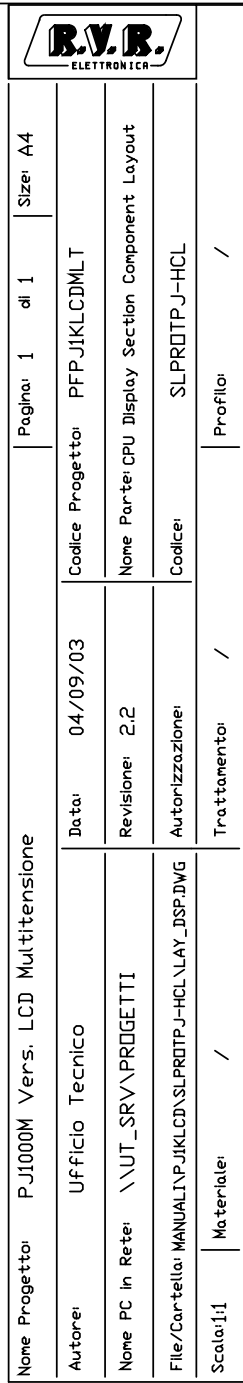


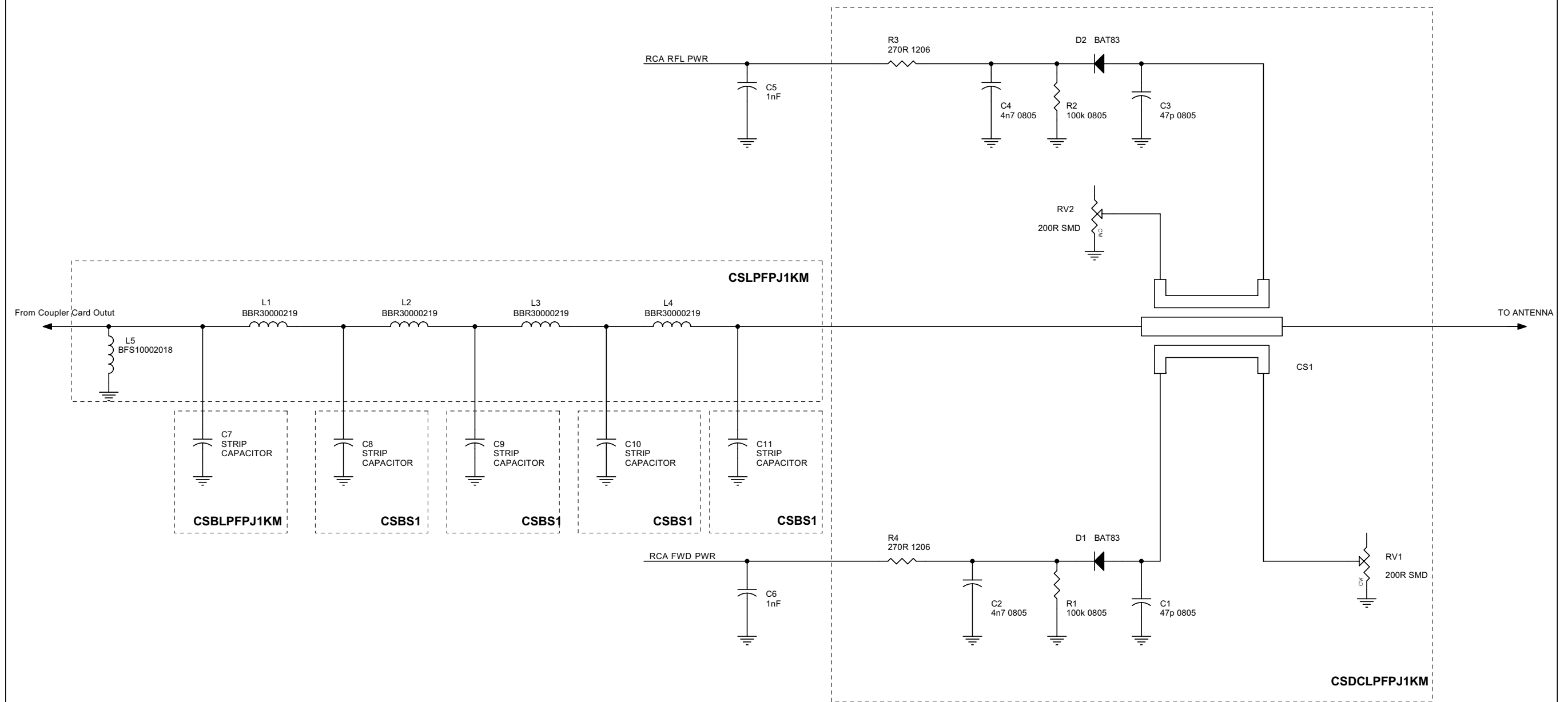


Nome Progetto: PJ1000M Vers. LCD Multitensione		Pagina: 1	di 1	Size: A4
Autore:	Ufficio Tecnico	Data:	04/09/03	Codice Progetto: PFPJKLCDMLT
Nome PC in Rete:	\\UT_SRV\PROGETTI	Revisione:	2.2	Nome Parte: LCD Alarms Card Layout
File/Cartella:	MANUAL\PJ1000M\SLPROTPJ-HCL\LAY_CPU.DWG	Autorizzazione:		Codice: SLPROTPJ-HCL
Scala: 1:1	Materiale:	Trattamento:	/	Profilo:

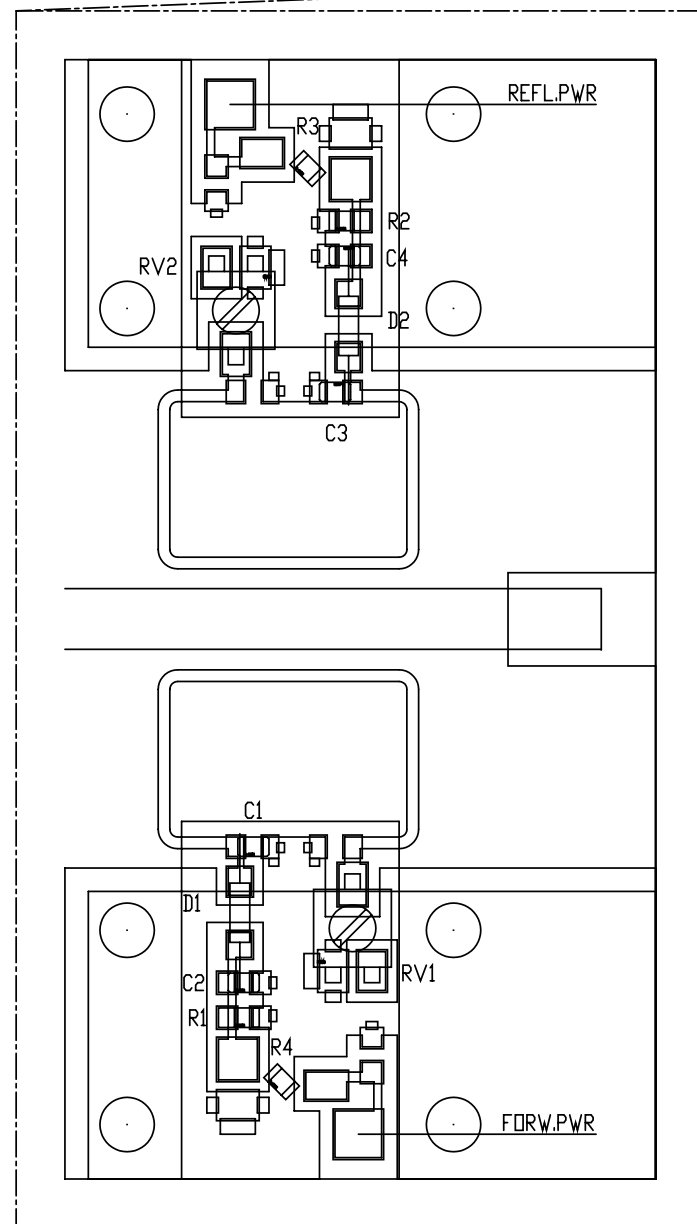
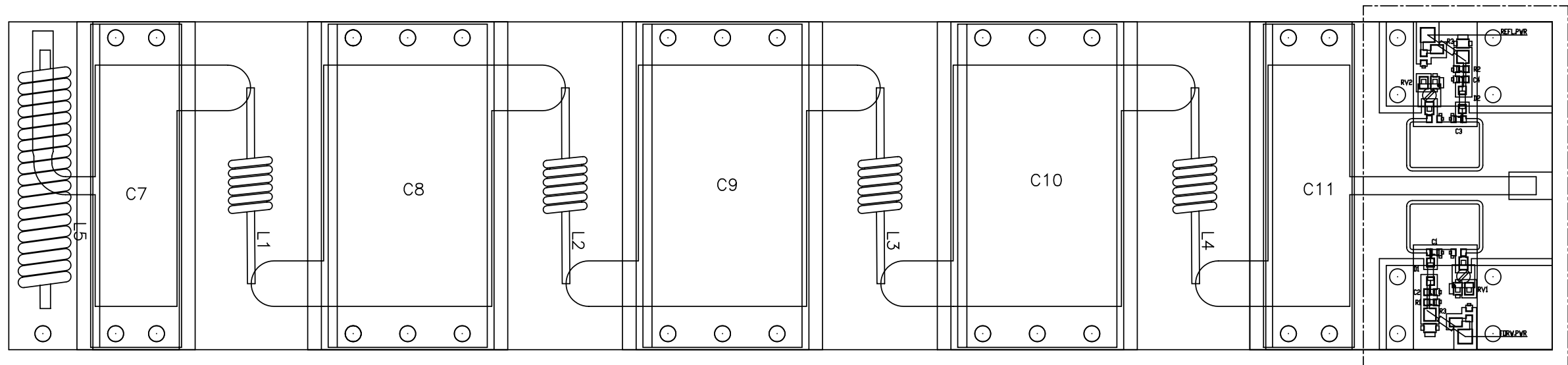
CPU Analog Section
SLPROTPJ-HCL
Version: 2.2 Date: 03/09/03

Item	Q.ty	Reference	Part
1	13	C1,C2,C3,C4,C5,C6,C7,C8,C35,C38,C39,C40,C43	CM.1UF
2	3	C10,C13,C34	CT1/16
3	13	C11,C12,C15,C16,C17,C18,C28,C29,C30,C31,C32,C33,C44	CP.22UF
4	8	C20,C21,C22,C23,C24,C25,C26,C27	CP.1UF
5	3	C36,C41,C42	CD1KPF
6	1	C37	CP.33UF
7	2	DL1,DL5	L5Y
8	2	DL2,DL3	L5G
9	1	DL4	L5R
10	1	D1	BAT84
11	1	D2	LM336-5.0V
12	1	D5	11DQ06
13	3	JP1,JP3,JP5	JUMP2
14	1	JP2	STRIP 14
15	4	JP4,JP6,JP7,JP10	JUMPER3
16	1	JP8	JUMPER
17	1	JP9	STRIP 2
18	1	J3	FLAT 40P
19	3	Q1,Q3,Q4	BC337
20	6	RP1,RP2,RP8,RP9,R15,R16	10K
21	3	RP3,RP7,RP15	2K2
22	4	RP4,RP5,RP6,R14	47K
23	4	R8,RP10,RP11,RP12	47R
24	2	RP13,R18	470R
25	1	RP14	3K3
26	1	R1	10M
27	1	R13	10R
28	5	S1,S2,S3,S4,S5	SW
29	1	S6	INT
30	1	TR1	87W-10K
31	1	U1	68HC11F1
32	1	U2	MB3773
33	1	U3	27C256
34	1	U4	74HC594
35	1	U5	74HC139
36	1	U6	74HC165
37	1	U7	PCF8584
38	3	U8,U11,U12	40106
39	2	U9,U10	ULN2004A
40	1	U13	LM317
41	1	Y1	CST-8MHZ





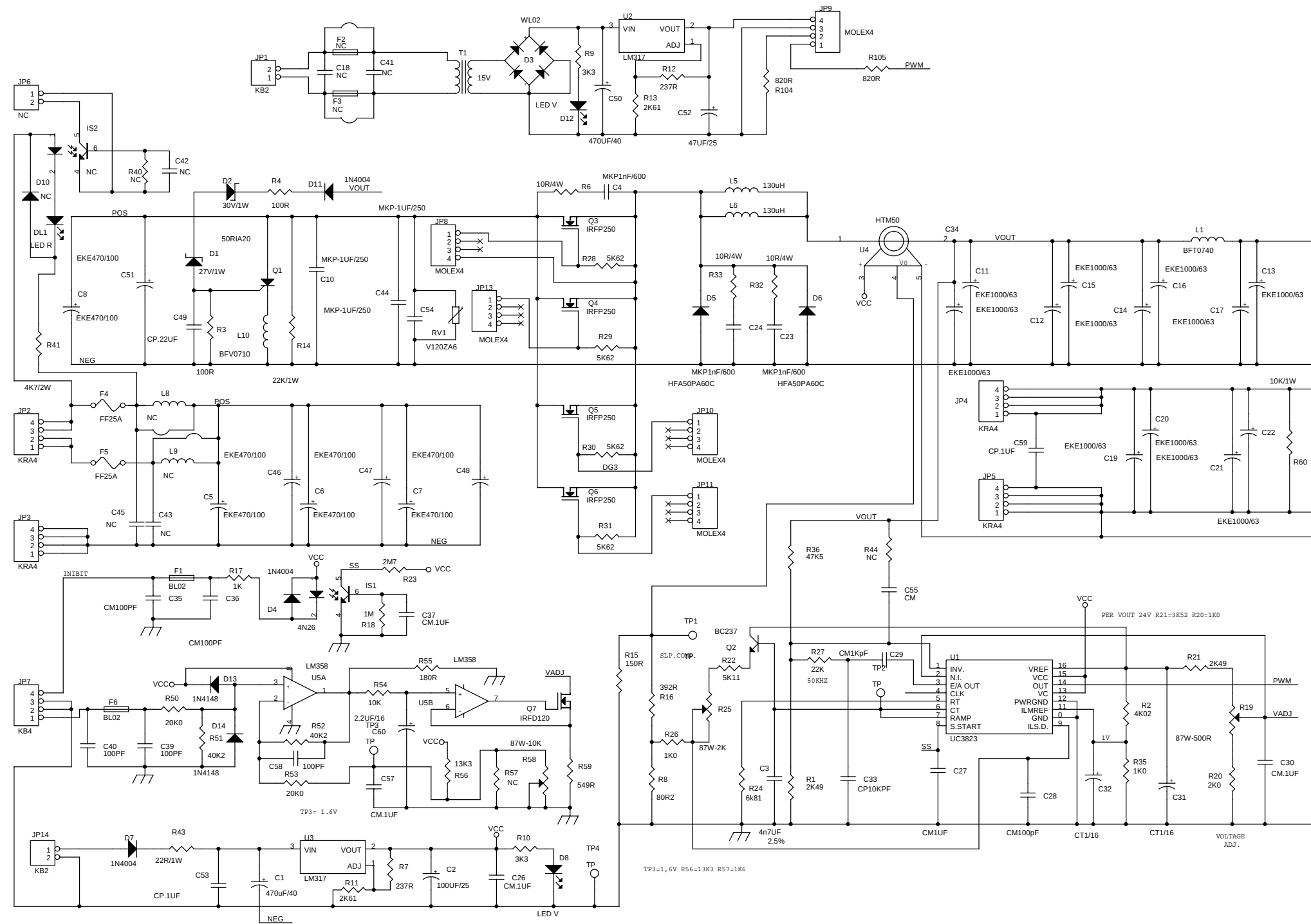
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Autore: Ufficio Tecnico	Data: 29/05/03	Codice Progetto: PFPJ1KLCMDLT	
Nome PC in Rete: \\UT_SRV\PROGETTI	Revisione: 2.0	Nome Parte: LOW PASS FILTER + MEASUREMENT	
File/Cartella: MANUAL\PJ1KLC\SLPFPJ1KSTR\TESTIN-1.DSN	Autorizzazione:	Codice: SLLPFPJ1KSTR	



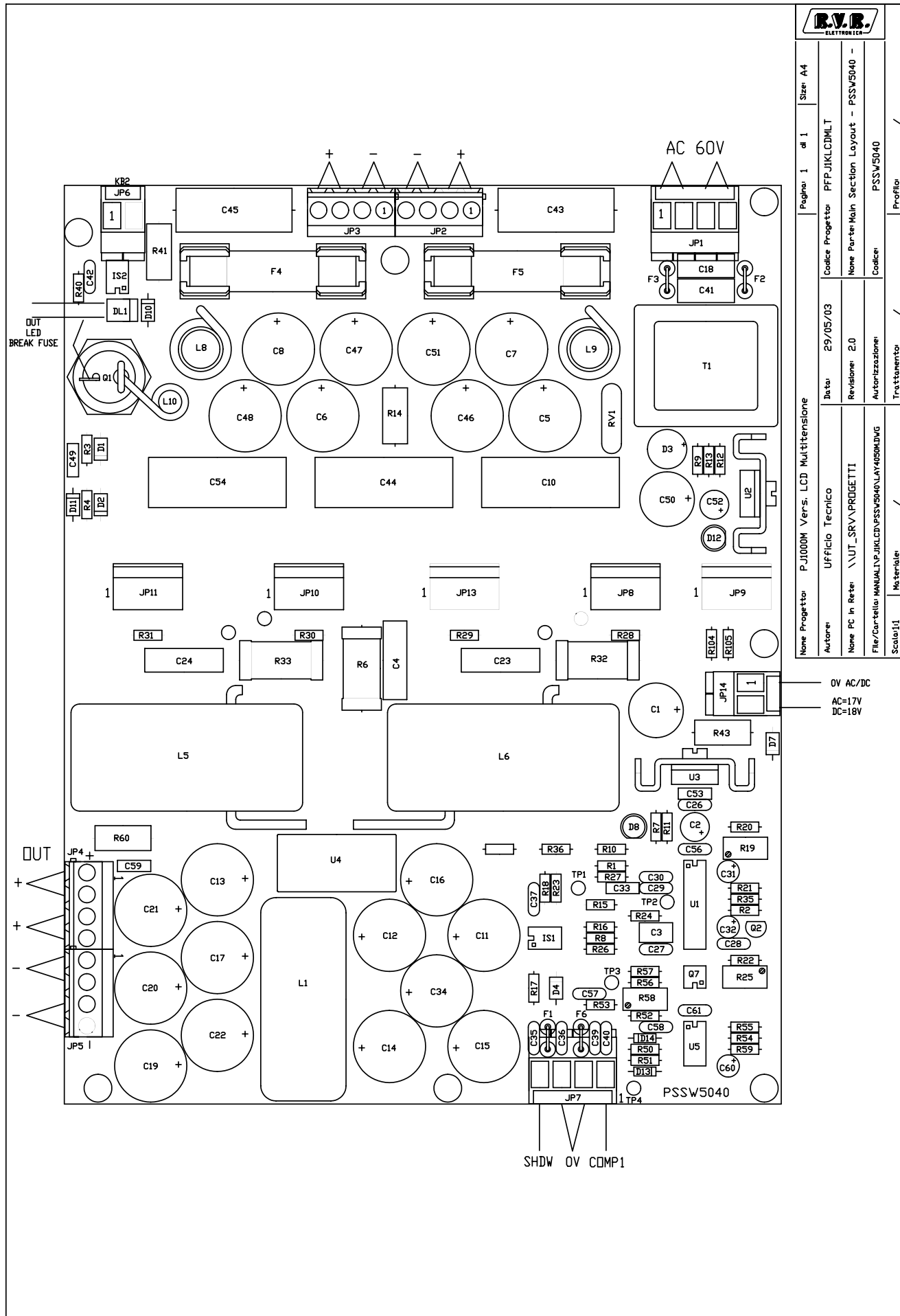
Nome Progetto: PJ1000M Vers. LCD Multitensione		Pagina: 1 di 1	Size: A3
Autore: Ufficio Tecnico	Data: 04/09/03	Codice Progetto: PFPJIKLCDMLT	
Nome PC in Rete: \\UT_SRV\PROGETTI	Revisione: 2,2	Nome Parte: LOW PASS FILTER + DIRECTIONAL COUPLER	
File/Cartella: MANUAL\PJIKLCD\SLLPFPJIKSTR\LPF100MHZ_2.DWG	Autorizzazione:	Codice: SLLPFPJ1KSTR	
Scala: /	Materiale: /	Trattamento: /	Profilo: /

LOW PASS FILTER + DIRECTIONAL COUPLER
SLLPFPJ1KSTR
Version: 2.2 Date: 03/09/03

Item	Q.ty	Reference	Part
1	1	L5	BFS10002018
2	1	CS1	CSDRCPPJ1KM
3	2	C3,C1	47p 0805
4	2	C4,C2	4n7 0805
5	2	C5,C6	1nF
6	2	C7,C11	27pFTFL
7	3	C8,C9,C10	54pFTFL
8	2	D2,D1	BAT83
9	4	L1,L2,L3,L4	BBR30000219
10	2	RV2,RV1	200R SMD
11	2	R2,R1	100k 0805
12	2	R3,R4	270R 1206



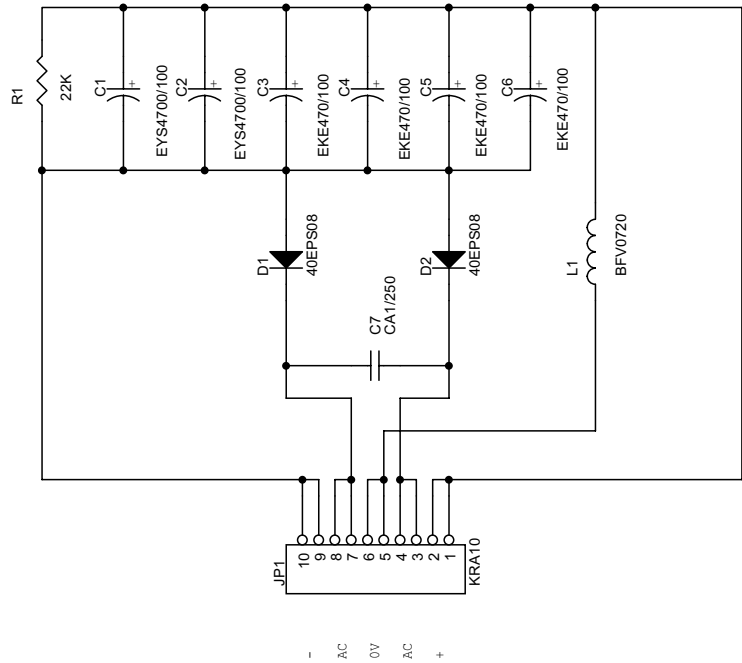
Nome Progetto: PJ1000M Vers. LCD Multitensione		Pagina: 1 di 1	Size: Custom
Autore: Ufficio Tecnico	Data: 29/05/03	Codice Progetto: PFPJ1KLCMLT	
Nome PC in Rete: \\\UT_SRV\PROGETTI	Revisione: 2.0	Nome Parte: Main Section PSS5040	
File/Cartella: MANUAL\PJ1KLC\DPSSW5040\PS040.DSN	Autorizzazione:	Codice: PSSW5040	



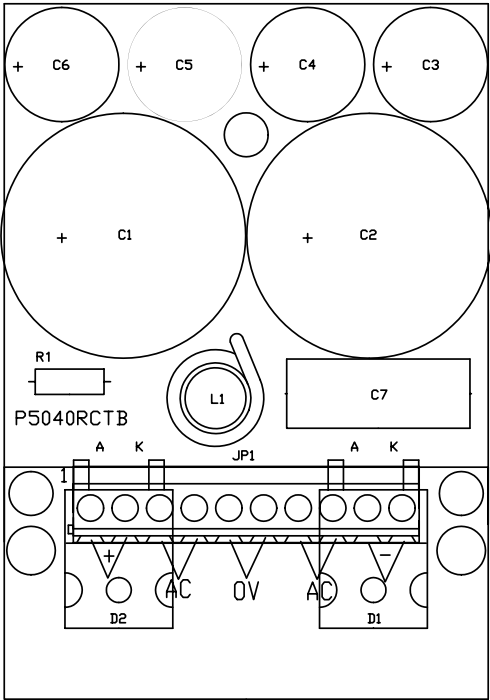
POWER SUPPLY main card
PSSW5040
Version: 2.0 Date: 27/05/03

Item	Quantity	Reference	Part
1	4	Q3, Q4, Q5, Q6	IRFP250
2	2	C1, C50	470UF/40
3	1	C2	100UF/25
4	1	C3	4n7UF
5	3	C4, C23, C24	MKP1nF/600
6	8	C5, C6, C7, C8, C46, C47, C48, C51	EKE470/100
7	3	C10, C44, C54	MKP-1UF/250
8	12	C11, C12, C13, C14, C15, C16, C17, C19, C20, C21, C22, C34	EKE1000/63
9	12	IS2, F2, F3, L8, L9, D10, C18, R40, C42, R44, C45, R57	NC
10	4	C26, C30, C37, C57	CM.1UF
11	1	C27	CM1UF
12	3	C28, C35, C36	CM100PF
13	1	C29	CM1KpF
14	2	C31, C32	CT1/16
15	1	C33	CP10KPF
16	3	C39, C40, C58	100PF
17	3	JP6, C41, C43	NC
18	1	C49	CP.22UF
19	1	C52	47UF/25
20	2	C53, C59	CP.1UF
21	1	C55	CM
22	1	C60	2.2UF/16
23	1	DL1	LED R
24	1	D1	27V/1W
25	1	D2	30V/1W
26	1	D3	WL02
27	3	D4, D7, D11	1N4004
28	2	D6, D5	HFA50PA60C
29	2	D12, D8	LED V
30	2	D13, D14	1N4148
31	2	F6, F1	BL02
32	2	F4, F5	FF25A
33	1	IS1	4N26
34	2	JP1, JP14	KB2
35	4	JP2, JP3, JP4, JP5	KRA4
36	1	JP7	KB4
37	5	JP8, JP9, JP10, JP11, JP13	MOLEX4
38	1	JP12	JUMPER2
39	1	L1	BFT0740
40	2	L5, L6	130uH
41	1	L10	BFV0710
42	1	Q1	50RIA20
43	1	Q2	BC237
44	1	Q7	IRFD120
45	1	RV1	V120ZA6
46	2	R21, R1	2K49
47	1	R2	4K02
48	2	R3, R4	100R
49	3	R6, R32, R33	10R/4W
50	2	R7, R12	237R

51	1	R8	80R2
52	2	R9,R10	3K3
53	2	R11,R13	2K61
54	1	R14	22K/1W
55	1	R15	150R
56	1	R16	392R
57	1	R17	1K
58	1	R18	1M
59	1	R19	87W-500R
60	1	R20	2K0
61	1	R22	5K11
62	1	R23	2M7
63	1	R24	6k81
64	1	R25	87W-2K
65	2	R35,R26	1K0
66	1	R27	22K
67	4	R28,R29,R30,R31	5K62
68	1	R36	47K5
69	1	R41	4K7/2W
70	1	R43	22R/1W
71	2	R50,R53	20K0
72	2	R51,R52	40K2
73	1	R54	10K
74	1	R55	180R
75	1	R56	13K3
76	1	R58	87W-10K
77	1	R59	549R
78	1	R60	10K/1W
79	2	R105,R104	820R
80	4	TP1,TP2,TP3,TP4	TP
81	1	T1	15V
82	1	U1	UC3823
83	2	U3,U2	LM317
84	1	U4	HTM50
85	1	U5	LM358



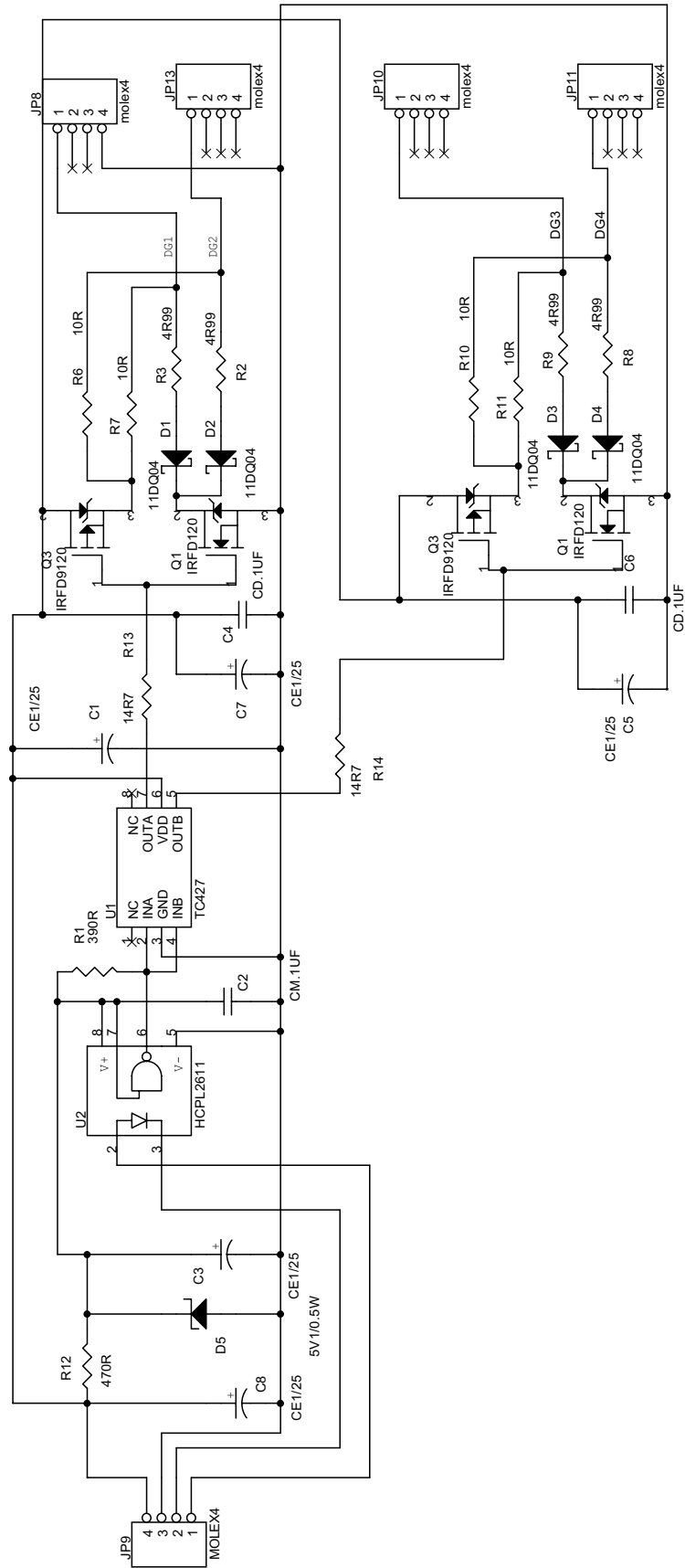
Nome Progetto: PJ1000M Vers. LCD Multitensione			
Autore: Ufficio Tecnico	Data: 29/05/03	Codice Progetto: PFPJ1KLCMDLT	Size: A4
Nome PC in Rete: \\UT_SRV\PROGETTI	Revisione: 2.0	Nome Parte: RECTIFIER SECTION PSSW5040	
File/Cartella: Manuali\PJ1KLCDPSSW5040\P5040RCT.dwg	Autore: /	Codice: PSSW5040	



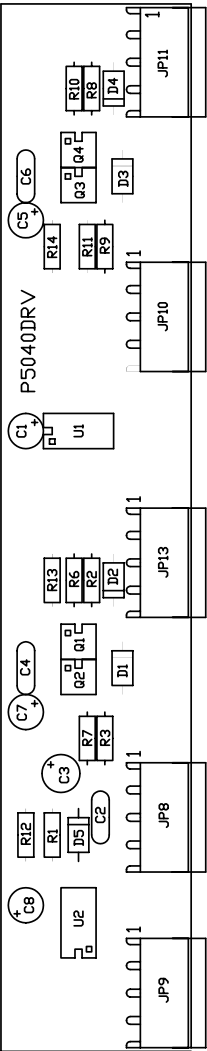
Nome Progetto: PJ1000M Vers. LCD Multitensione			
Autore: Ufficio Tecnico	Data: 29/05/03	Codice Progetto: PFPJ1KLCMDLT	Size: A4
Nome PC in Rete: \\UT_SRV\PROGETTI	Revisione: 2.0	Nome Parte: Rectifier Section Layout - PSSW5040	
File/Cartella: Manuali\PJ1KLCDPSSW5040\LAY4050B_NDWG	Autore: /	Codice: PSSW5040	
Scala: 1:1	Material: /	Titolante: /	Profilo: /

RECTIFIER SECTION PSSW5040
PSSW5040
Version: 2.0 Date: 27/05/03

Item	Quantity	Reference	Part
1	2	C1,C2	EYS4700/100
2	4	C3,C4,C5,C6	EKE470/100
3	1	C7	CA1/250
4	2	D1,D2	40EPS08
5	1	JP1	KRA10
6	1	L1	BFV0720
7	1	R1	22K



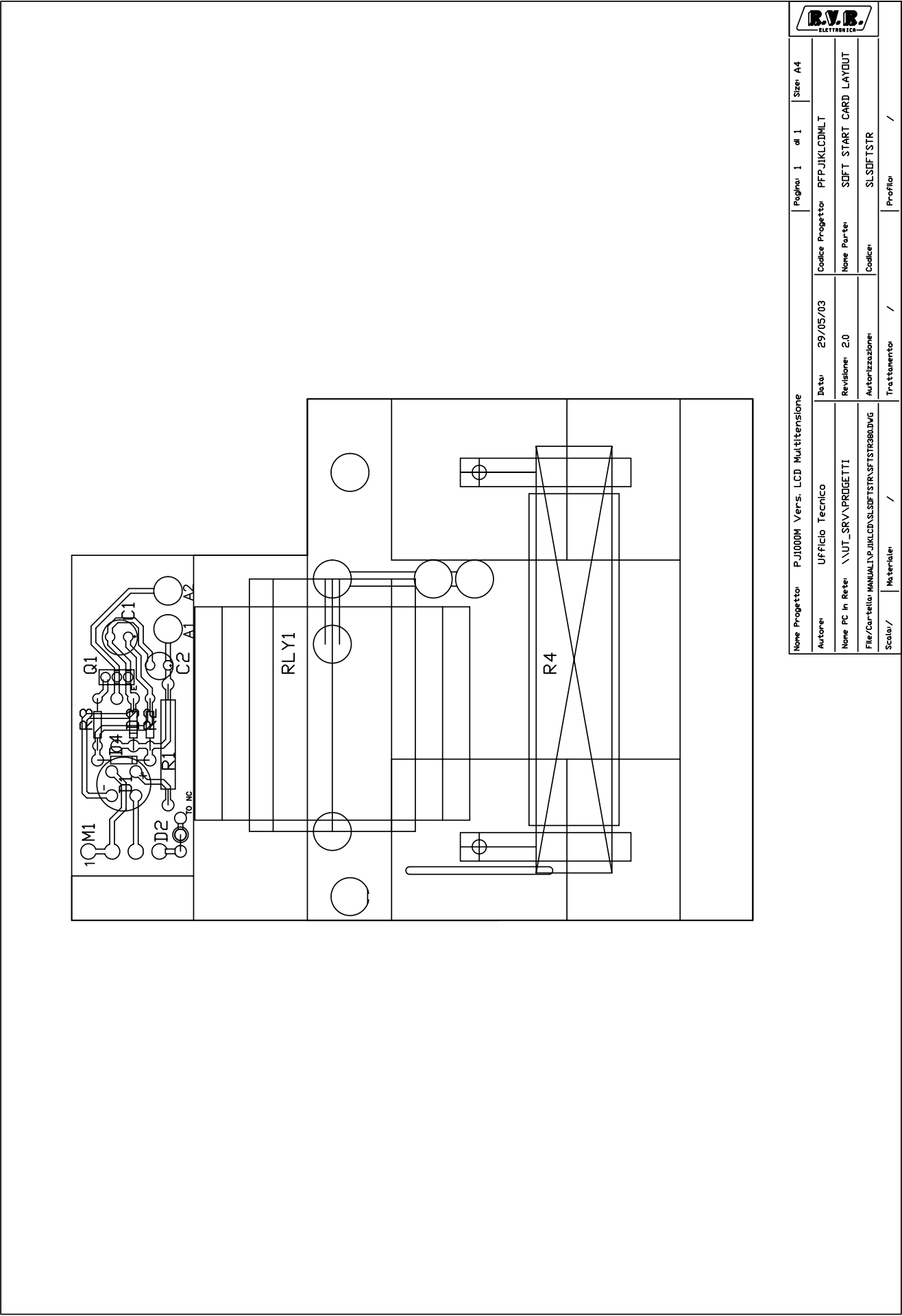
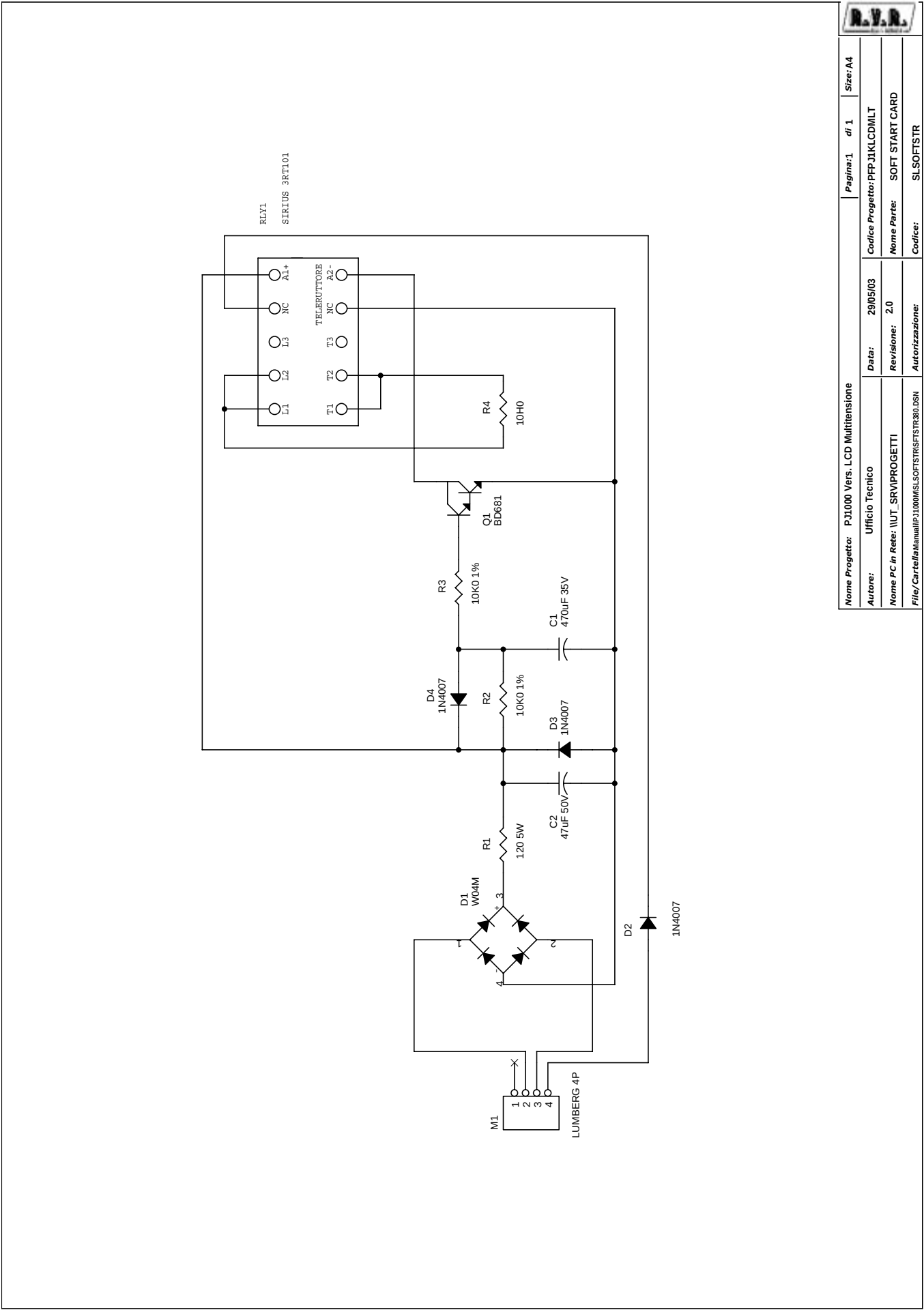
Nome Progetto: PJ1000M Vers. LCD Multitensione		Pagina: 1	di 1	Size: A4
Autore: Ufficio Tecnico		Data: 29/05/03		Codice Progetto: PFPJKLCDMLT
Nome PC in Rete: \\UT_SRV\PROGETTI		Revisione: 2.0		Nome Parte: DRIVER PSS040
File/Cartella: Manuali\PJ1KLCD\PSSW040\P5040DRV.dwg		Autorizzazione:		Codice: PSSW040



Nome Progetto: PJ1000M Vers. LCD Multitensione		Pagina: 1	di 1	Size: A4
Autore: Ufficio Tecnico		Data: 29/05/03		Codice Progetto: PFPJKLCDMLT
Nome PC in Rete: \\UT_SRV\PROGETTI		Revisione: 2.0		Nome Parte: Driver Section Layout - PSSW040
File/Cartella: Manuali\PJ1KLCD\PSSW040\LAY4050D.DWG		Autorizzazione:		Codice: PSSW040
Scala: 1:1		Trattamento:		Profilo:

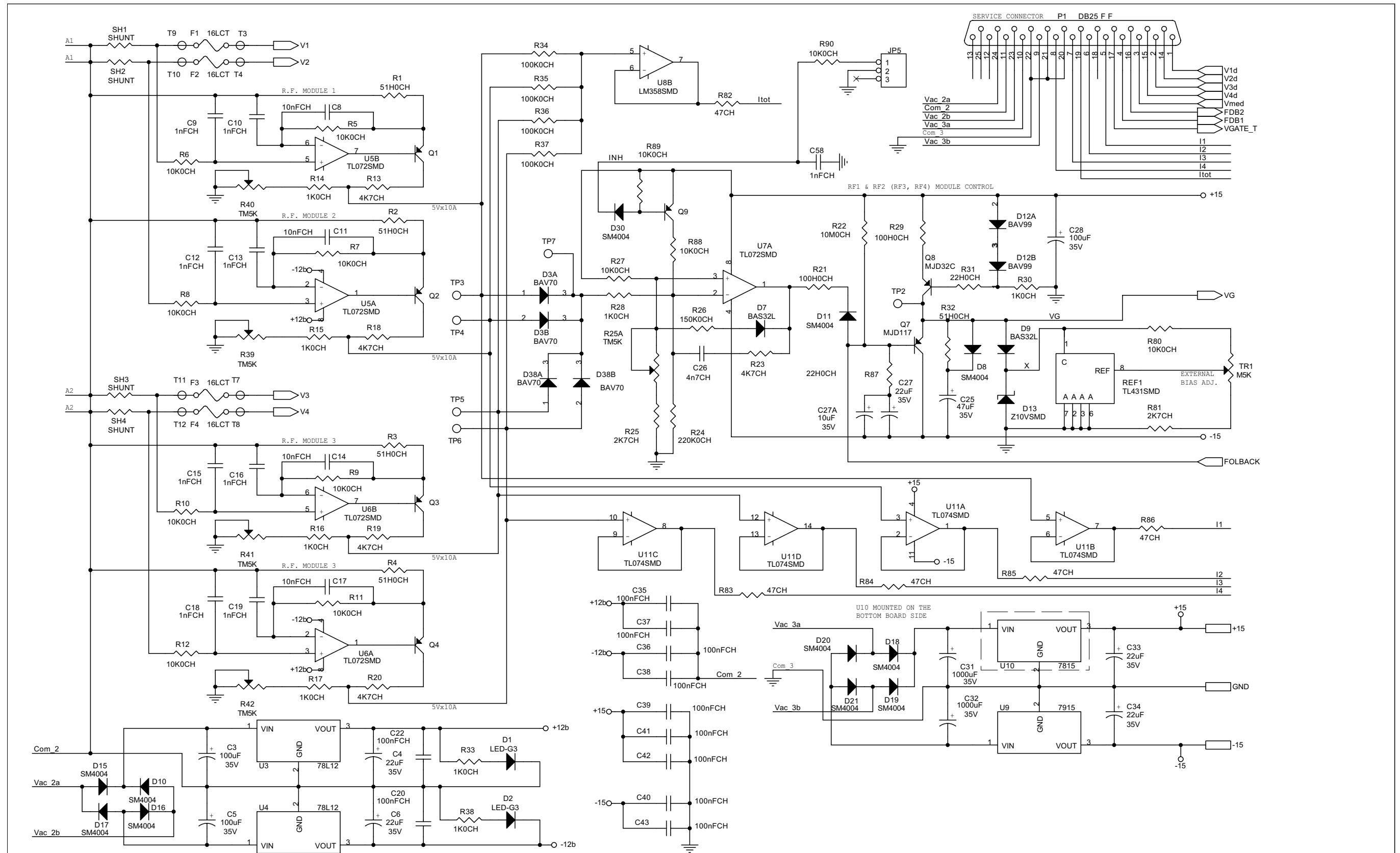
DRIVER PSSW5040
PSSW5040
Version: 2.0 Date: 27/05/03

Item	Quantity	Reference	Part
1	4	C1,C5,C7,C8	CE1/25
2	1	C2	CM.1UF
3	1	C3	47UF/25
4	2	C4,C6	CD.1UF
5	4	D1,D2,D3,D4	11DQ04
6	1	D5	5V1/0.5W
7	5	JP8,JP9,JP10,JP11,JP13	MOLEX4
8	2	Q1,Q4	IRFD120
9	2	Q2,Q3	IRFD9120
10	1	R1	390R
11	4	R2,R3,R8,R9	4R99
12	4	R6,R7,R10,R11	10R
13	1	R12	470R
14	2	R13,R14	14R7
15	1	U1	TC427
16	1	U2	HCPL2611

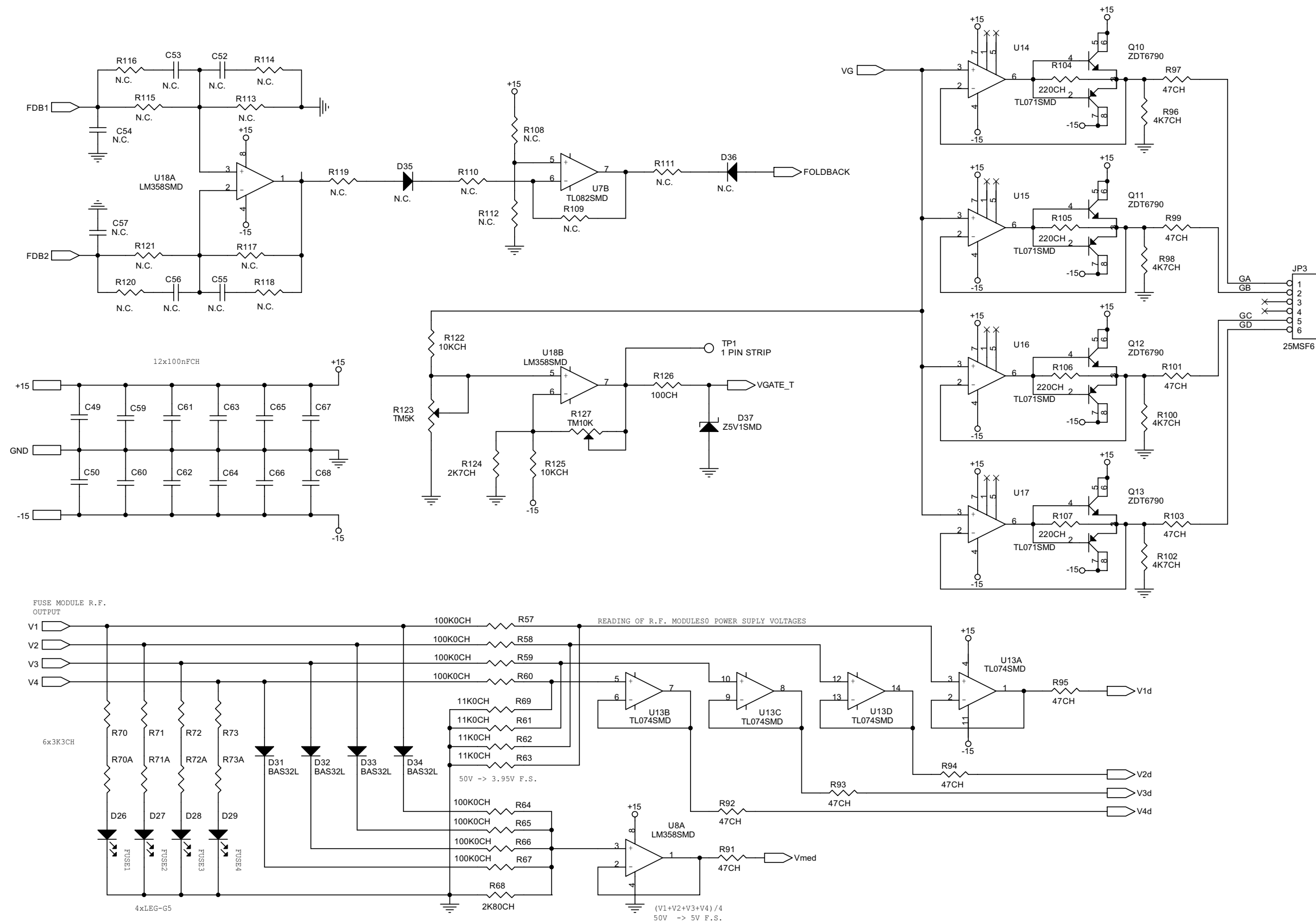


SOFT-START CARD
 SLSOFTSTR
 Version: 2.0 Date: 27/05/03

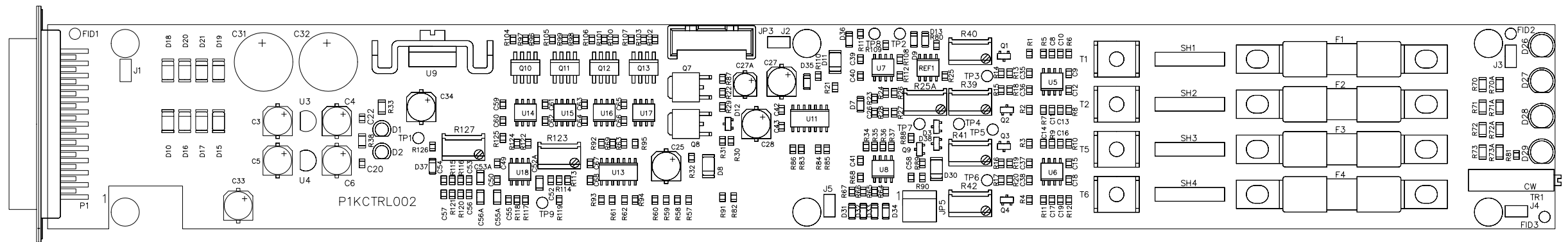
Item	Q.ty	Reference	Part
1	3	D2, D3, D4	1N4007
2	2	R2, R3	10K0 1%
3	1	R4	10H0
4	1	C1	470uF 35V
5	1	C2	47uF 50V
6	1	D1	W04M
7	1	M1	LUMBERG 4P
8	1	Q1	BD681
9	1	R1	120 5W
10	1	RLY1	SIRIUS 3RT101



Nome Progetto: PJ1000M vers. LCD Multitensione		Pagina: 1 di 2	Size: A3
Autore: Ufficio Tecnico	Data: Monday, June 09, 2003	Codice Progetto: PFPJ1KLCDMLT	
Nome PC in Rete: \\UT_SRV\PROGETTI	Revisione: 2.0	Nome Parte: BIAS CONTROL CARD	
File/Cartella: /	Autorizzazione:	Codice: SLCTRLPJ1KLC	



Nome Progetto: PJ1000M vers. LCD Multitensione		Pagina: 2 di 2	Size: A3
Autore: Ufficio Tecnico	Data: Monday, June 09, 2003	Codice Progetto: PFPJ1KLCDMLT	
Nome PC in Rete: \\UT_SRV\PROGETTI	Revisione: 2.0	Nome Parte: BIAS CONTROL CARD	
File/Cartella: /	Autorizzazione:	Codice: SLCTRLPJ1KLC	



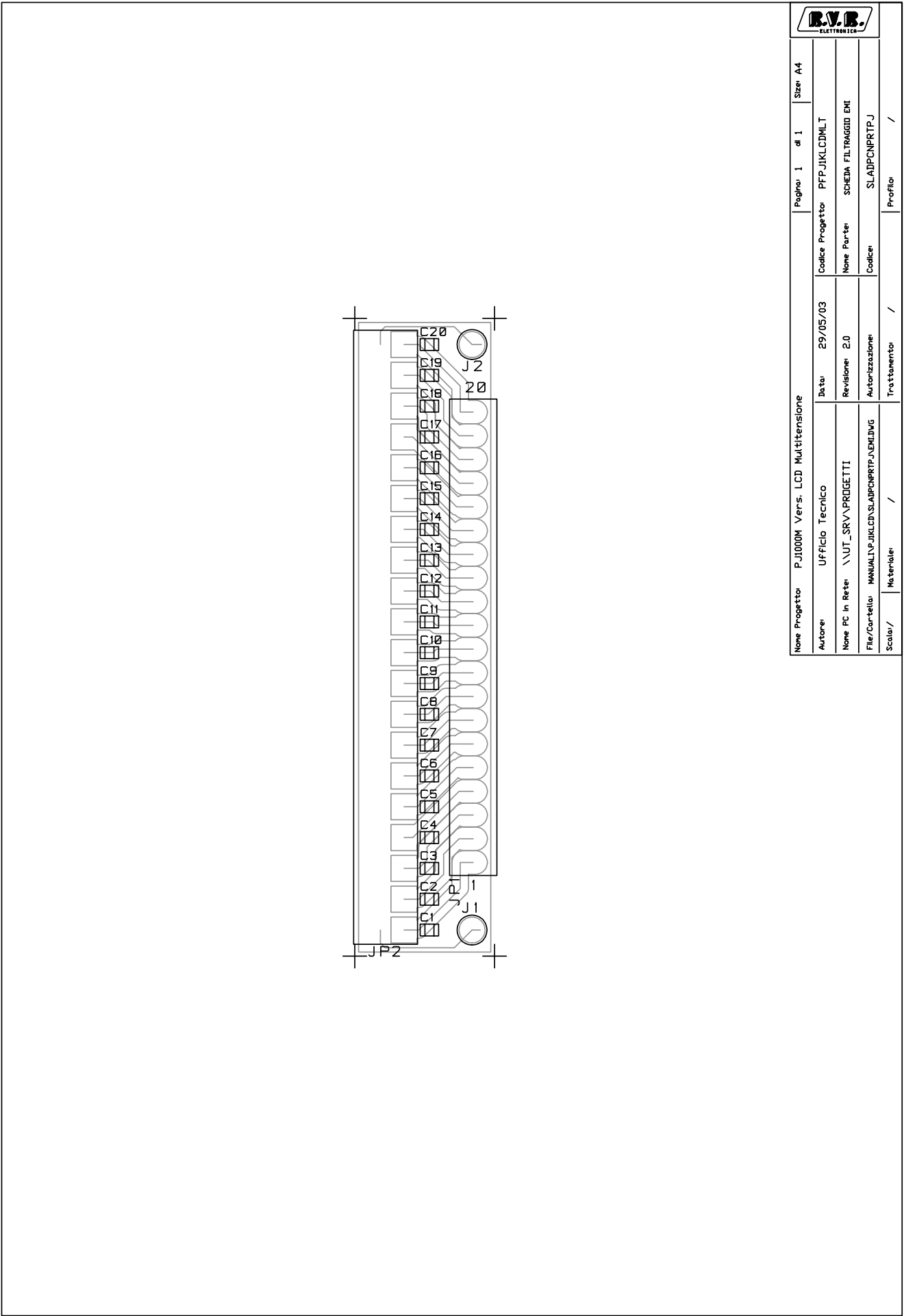
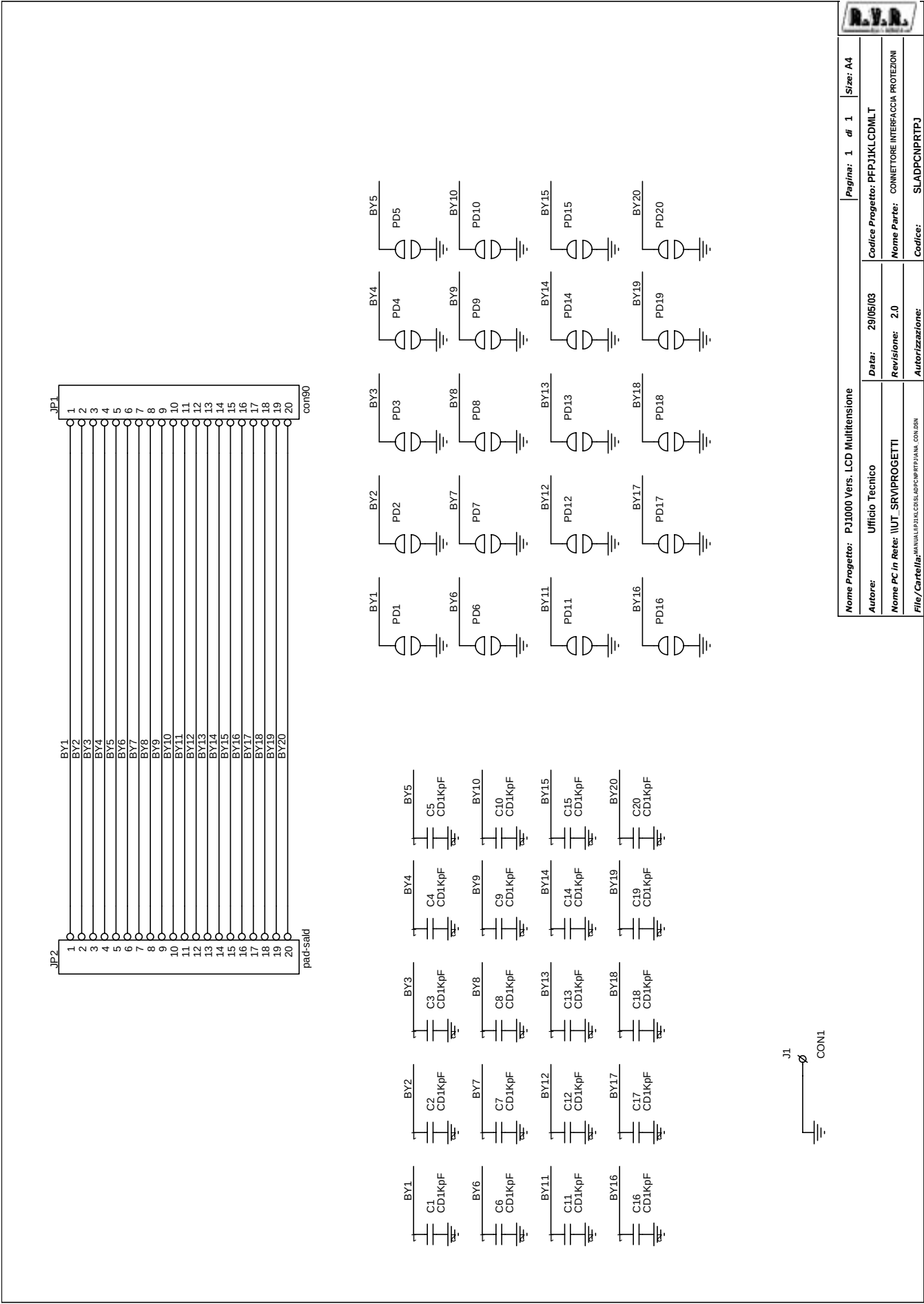
Nome Progetto: PJ1000M Vers. LCD Multitensione		Pagina: 1 di 1	Size: A3
Autore: Ufficio Tecnico	Data: 29/05/03	Codice Progetto: PFPJ1KLC DMLT	
Nome PC in Rete: \\UT_SRV\PROGETTI	Revisione: 2.0	Nome Parte: BIAS CONTROL CARD LAYOUT	
File/Cartella: MANUALI\PJ1KLCD\SLCTRLPJ1KLC\LAYBIAS2.DWG	Autorizzazione:	Codice: SLCTRLPJ1KLC	
Scala: /	Materiale: /	Trattamento: /	Profilo: /



BIAS CONTROL CARD
SLCTRLPJ1KLC
Version: 2.0 Date: 27/05/03

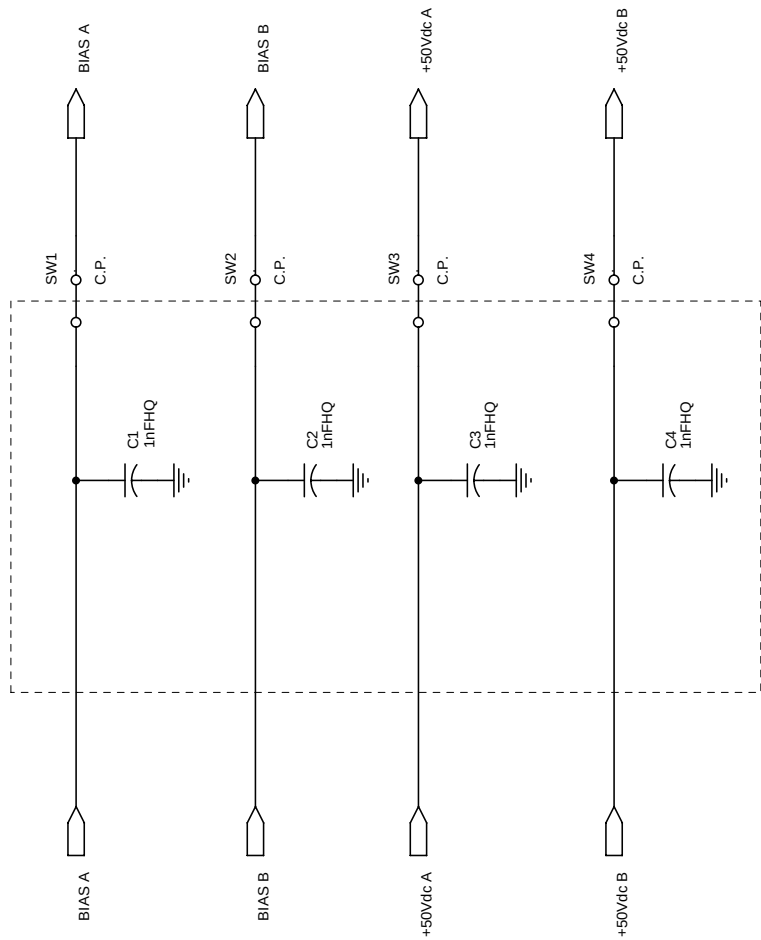
Item	Quantity	Reference	Part	DESCRIPTION
1	2	R31,R87	22H0CH	CHIP RESISTOR 1%
2	14	R82,R83,R84,R85,R86,R91, R92,R93,R94,R95,R97,R99, R101,R103	47CH	CHIP RESISTOR 1/4W
3	5	R1,R2,R3,R4,R32	51H0CH	CHIP RESISTOR 1%
4	2	R21,R29	100H0CH	CHIP RESISTOR 1%
5	1	R126	100CH	CHIP RESISTOR
6	4	R104,R105,R106,R107	220CH	CHIP RESISTOR
7	6	R14,R15,R16,R17,R28,R30,	1K0CH	CHIP RESISTOR 1%
8	3	R25,R81,R124	2K74CH	CHIP RESISTOR 1%
9	1	R68	2K80CH	CHIP RESISTOR 1%
10	8	R70A,R70,R71A,R71,R72A, R72,R73A,R73	3K32CH	CHIP RESISTOR 1%
11	4	R96,R98,R100,R102	4K7CH	CHIP RESISTOR
12	5	R13,R18,R19,R20,R23	4K75CH	CHIP RESISTOR 1%
13	13	R5,R6,R7,R8,R9,R10,R11, R12,R27,R80,R88,R89,R90	10K0CH	CHIP RESISTOR 1%
14	2	R122,R125	10KCH	CHIP RESISTOR
15	4	R61,R62,R63,R69	11K0CH	CHIP RESISTOR 1%
16	12	R34,R35,R36,R37,R57,R58, R59,R60,R64,R65,R66,R67	100K0CH	CHIP RESISTOR
17	1	R26	150K0CH	CHIP RESISTOR 1%
18	1	R24	221K0CH	CHIP RESISTOR 1%
19	1	R22	10M0CH	CHIP RESISTOR 1%
20	1	TR1	M5K	TRIMMER MULTIGIRI
21	6	R25A,R39,R40,R41,R42, R123	TM5K	TRIMMER MUTLIGIRI
22	1	R127	TM10K	TRIMMER MULTIGIRI
23	9	C9,C10,C12,C13,C15,C16, C18,C19,C58	1NFCH	CERAMIC CHIP CAPACITOR
24	1	C26	4N7CH	CERAMIC CHIP CAPACITOR
25	4	C8,C11,C14,C17	10NFCH	CERAMIC CHIP CAPACITOR
26	23	C20,C22,C35,C36,C37,C38, C39,C40,C41,C42,C43,C49, C50,C59,C60,C61,C62,C63, C64,C65,C66,C67,C68	100NFCH	CERAMIC CHIP CAPACITOR
27	1	C27A	10UF	ELECTROLYTIC CAPACITOR
28	5	C4,C6,C27,C33,C34	22UF	ELECTROLYTIC CAPACITOR
29	1	C25	47UF	ELECTROLYTIC CAPACITOR
30	3	C3,C5,C28	100UF	ELECTROLYTIC CAPACITOR
31	2	C31,C32	1000UF	ELECTROLYTIC CAPACITOR
32	9	TP1,TP2,TP3,TP4,TP5,TP6, TP7,TP8,TP9	1 PIN STRIP	STRIP M 1 PIN
33	1	JP5	3 PIN STRIP	STRIP M P 2.54 3 PIN
34	1	JP3	25MSF6	MINIMODUL CONNECTOR 2.5MM 6P
35	4	SH1,SH2,SH3,SH4	SHUNT	SHUNT CURRENT
36	1	P1	DB25 F F	CONN. F 25 FILTRATO MURATA
37	6	D7,D9,D31,D32,D33,D34BAS32L	CHIP	SILICON DIODE
38	2	D3,D38	BAV70	DUAL COMM. SWITH. CAT. DIODE
39	1	D12	BAV99	DUAL SERIES. SWITH. DIODE

40	11	D8,D10,D11,D15,D16,D17, D18,D19,D20,D21,D30	SM4004	SILICON DIODE 400V SMD
41	2	D1,D2	LED-G3	GREEN LED DIODE 3mm
42	4	D26,D27,D28,D29	LED-G5	GREEN LED DIODE
43	1	D37	Z5V1SMD	ZENER DIODE 5.1V 0.4W SMD
44	1	D13	Z10VSMD	ZENER DIODE 10V 0.4W SMD
45	1	U3	78L12	POS. STABILIZER 100mA
46	1	U4	79L12	NEG. STABILIZER 100mA
47	1	U10	7815	POS. STABILIZER 1A
48	1	U9	7915	NEG. STABILIZER 1A
49	1	REF1	TL431SMD	VOLT. PREC. REFER. SMD
50	5	Q1,Q2,Q3,Q4,Q9	MMBT5401LT1	PNP HIGH VOLT. TRANSISTOR
51	1	Q7	MJD117	PNP BIPOLAR POWER TRANS.
52	1	Q8	MJD32C	PNP BIPOLAR POWER TRANS.
53	4	Q10,Q11,Q12,Q13	ZDT6790	COMPLEM. MED. PWR HG. TRANS.
54	2	U8,U18	LM358SMD	DUOBLE OP. AMP. SMD
55	3	U5,U6,U7	TL082SMD	DOUBLE OP. AMP. SMD
56	4	U14,U15,U16,U17	TL071SMD	SINGLE OP. AMP.
57	2	U11,U13	TL084SMD	QUAD OP. AMP. SMD
58	12	T1,T2,T3,T4,T5,T6,T7,T8, T9,T10,T11,T12	TORRETTA	TORRETTA ESAGONALE
59	22	D35,D36,C52,C53,C54,C55, C56,C57,R108,R109,R110, R111,R112,R113,R114,R115, R116,R117,R118,R119,R120, R121	N.C.	NOT CONNECTED
60	2	R33,R38	1K0CH	CHIP RESISTOR
61	4	F1,F2,F3,F4	16LCT	BOLT-IN MOUNTED FUSES 16LCT

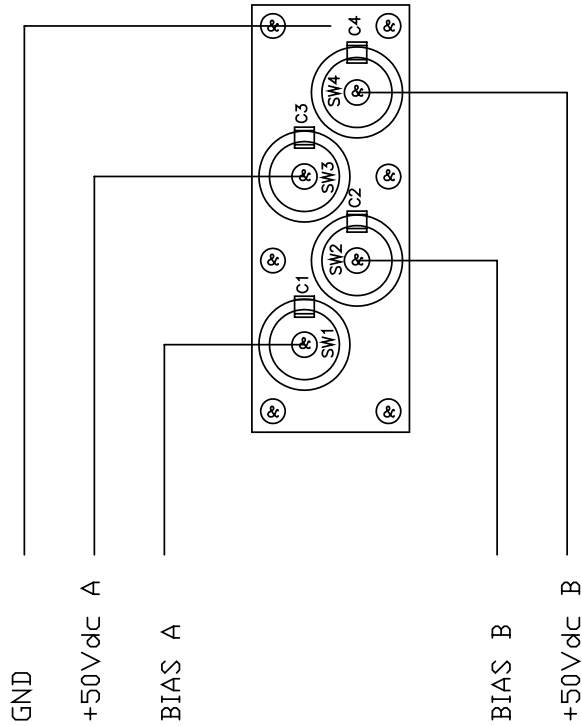


Adattatore CPUPJLCD (EMI)
 SLADPCNPRTJP
 Version: 2.0 Date: 27/05/03

Item	Quantity	Reference	Part
1	20	C1,C2,C3,C4,C5,C6,C7,C8, C9,C10,C11,C12,C13,C14, C15,C16,C17,C18,C19,C20	CD1KpF
2	1	JP1	con90
3	1	JP2	pad-sald
4	1	J1	CON1
5	20	PD1,PD2,PD3,PD4,PD5,PD6, PD7,PD8,PD9,PD10,PD11, PD12,PD13,PD14,PD15,PD16, PD17,PD18,PD19,PD20	



Nome Progetto: PJ1000M Vers. LCD Multitensione				Pagina: 1 di 1		Size: A4
Autore:	Ufficio Tecnico	Data:	04/09/03	Codice Progetto: PFPJIKLCDMLT		
Nome PC in Rete:	\\UT_SRV\PROGETTI	Revisione:	2.0	Nome Parte: SCHEDA VITI PASSANTI		
File/Cartella/Manuali/PJ1KCD/SLFLPJ1KMC/SLFLPJ1KM	Autorizzazione:		Codice: SLFLPJ1KM			



E.V.B. ELETTROTECH						
Nome Progetto PJ1000M Vers. LCD Multitensione				Pagina 1	di 1	Size A4
Autore:	Ufficio Tecnico		Data:	04/09/03	Codice Progetto PFPJIKLCDMLT	
Nome PC in Rete:	\\UT_SRV\PROGETTI		Revisione:	2.0	Nome Parte SCHEDA VITI PASSANTI	
File/Cartella:	MANUALI/PJ1KCD/SLFLPJ1KMC/SLFLPJ1KM		Autorizzazione:			
Scala/	Microscale	/	Trattamento		/	Profilo /

Scheda viti passanti - Bill of materials
SLFILPJ1KM
Version: 2,0
Date: 04/09/2003

Item	Q.ty	Reference	Part	Description Part
1	4	C1,C2,C3,C4	1nFHQ	Cond. Chip HQ
2	4	SW1,SW2,SW3,SW4	C.P.	Viti passanti