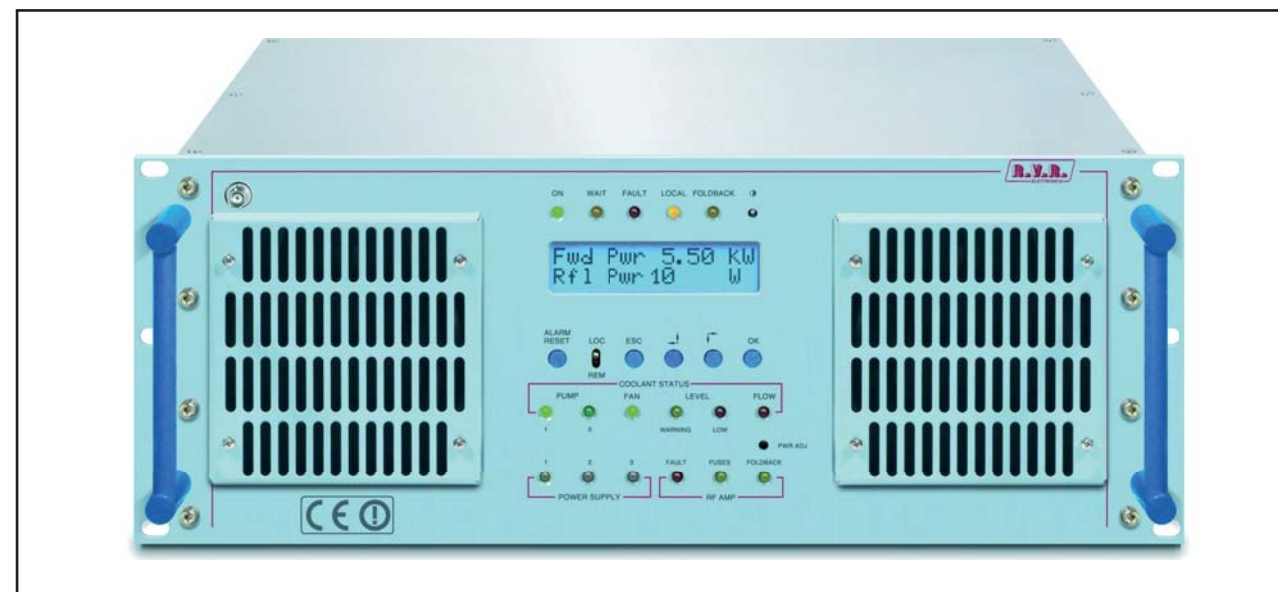


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# PJ5000U-KLC (alias BARRACUDA)



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 PJ5000U-KLC. L'appendice è composta dalle seguenti sezioni:

*This part of the manual contains the technical details about the different Cards of the PJ5000U-KLC. This appendix is composed of the following sections:*

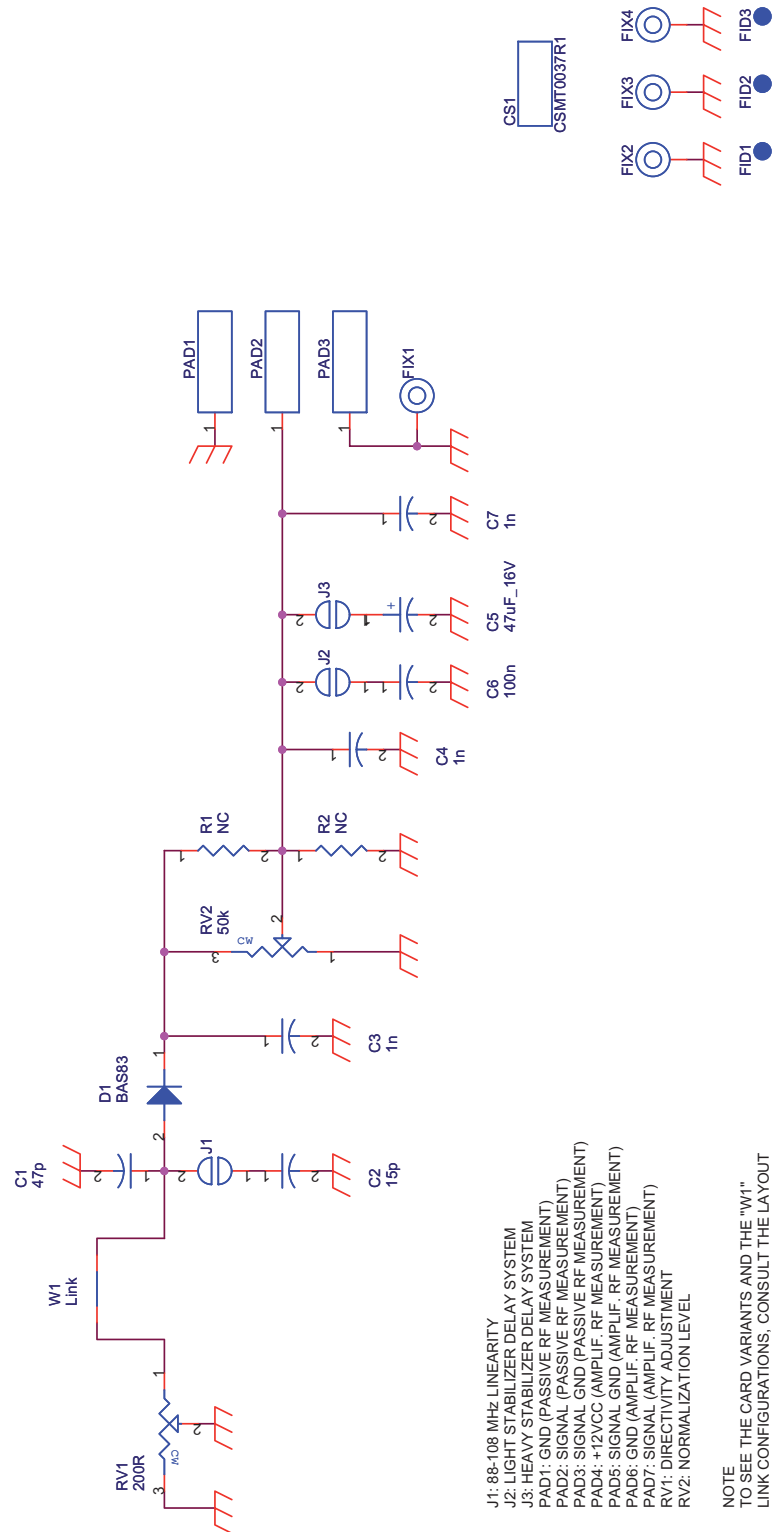
<b>Description</b>	<b>RVR Code</b>	<b>Vers.</b>	<b>Page</b>
Wiring Diagrams		1.0	1
PWR Input Measure Card	S042MT1501	1.0	1
Splitter Card	SLSPLL5PJ2K	1.0	1
R.F. Card	SL154RF2001	1.0	1
Combiner Card		1.0	1
LPF Card	SLLPF154	1.0	1
Surge Protection Card	SL046SR1002	1.0	1
PFC Card	PFCPSL5060	1.0	1
Power Supply 50V 60A	PSL5060	1.0	1
Filter PS Card	SLFILPSPJ2K1	1.0	1
Fuse Card	SLFUSRFPJ4K1	1.0	1
LED Card	SL154LD1001	1.0	1
Panel Card	PROTPJ154	1.0	1
BIAS Card	SL046BI1001	1.0	1
Interface Card	SL154IN2001	1.0	1

<b>Document History</b>				
Date	Version	Reason	Code	Editor
05/06/2009	1.0	First Release	/	J.H. Berti



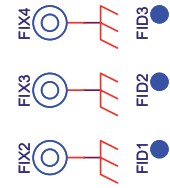






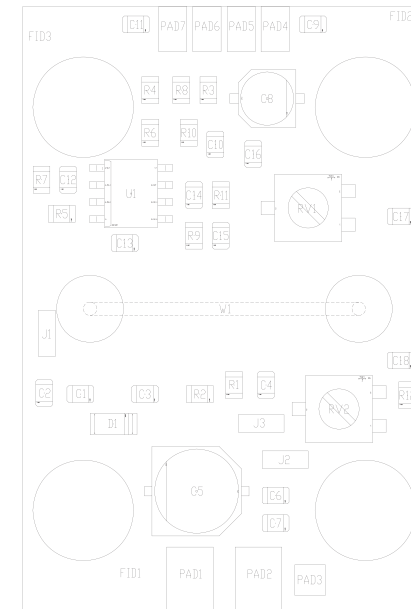
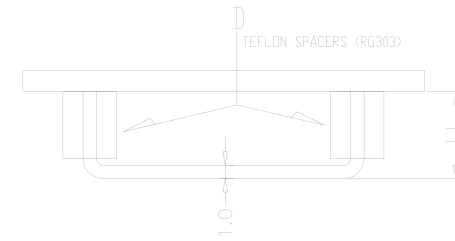
- J1: 88-108 MHz LINEARITY
- J2: LIGHT STABILIZER DELAY SYSTEM
- J3: HEAVY STABILIZER DELAY SYSTEM
- PAD1: GND (PASSIVE RF MEASUREMENT)
- PAD2: SIGNAL (PASSIVE RF MEASUREMENT)
- PAD3: SIGNAL GND (PASSIVE RF MEASUREMENT)
- PAD4: +12VCC (AMPLIF. RF MEASUREMENT)
- PAD5: SIGNAL GND (AMPLIF. RF MEASUREMENT)
- PAD6: GND (AMPLIF. RF MEASUREMENT)
- PAD7: SIGNAL (AMPLIF. RF MEASUREMENT)
- RV1: DIRECTIVITY ADJUSTMENT
- RV2: NORMALIZATION LEVEL

NOTE  
TO SEE THE CARD VARIANTS AND THE "W1"  
LINK CONFIGURATIONS, CONSULT THE LAYOUT  
(SL042MT1001-DWG)



Project Name: Generic RF PWR Measurement		Page: 1 of 1	Size: A4
Designer: Mauro Ucelli	Date: Thursday, April 17, 2008	Project Code: 042	
File Location: \\Utsrv\Rilasciati\	Revision: 1.1	Description: RF Power measure board	
Folder/File: /	Approval:	Part No.: SL042MT1001	

W1 LINK CONFIGURATION



- J1: 88-108 MHz LINEARITY
- J2: LIGHT STABILIZER DELAY SYSTEM
- J3: HEAVY STABILIZER DELAY SYSTEM
- PAD1: GND (PASSIVE RF MEASUREMENT)
- PAD2: SIGNAL (PASSIVE RF MEASUREMENT)
- PAD3: SIGNAL GND (PASSIVE RF MEASUREMENT)
- PAD4: +12VCC (AMPLIF. RF MEASUREMENT)
- PAD5: SIGNAL GND (AMPLIF. RF MEASUREMENT)
- PAD6: GND (AMPLIF. RF MEASUREMENT)
- PAD7: SIGNAL (AMPLIF. RF MEASUREMENT)
- RV1: DIRECTIVITY ADJUSTMENT
- RV2: NORMALIZATION LEVEL

CONFIGURATIONS DETAIL

CARD CODE	H link W1 (mm)	D spacers W1	Jumper J1	Jumper J2	Jumper J3
SL042MT1001					
SL042MT1101	5.3		X		
SL042MT1201	4		X		
SL042MT1301	7.6		X		
SL042MT1401	8.5	X	X		X
SL042MT1501	4.5		X		

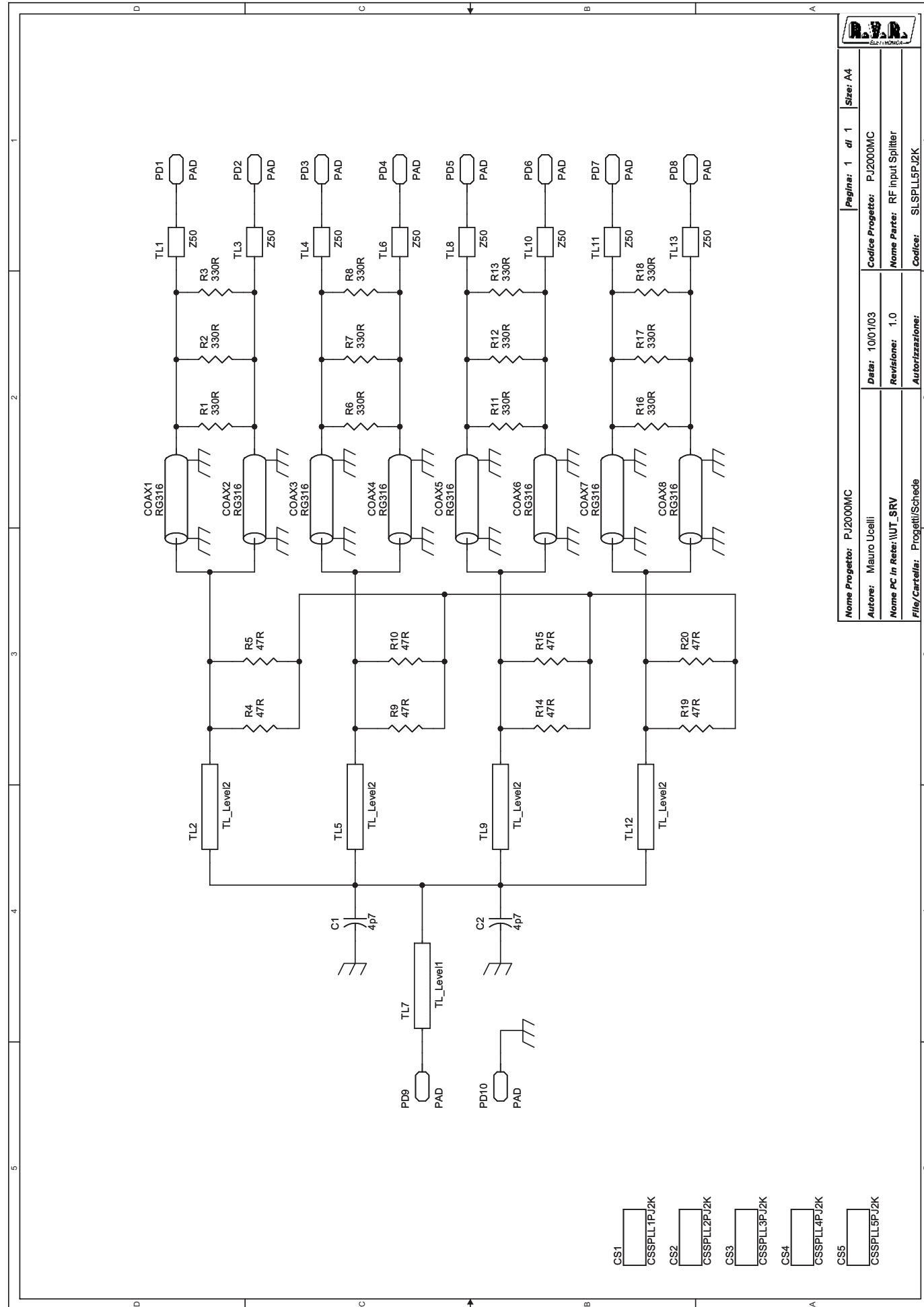


PROJECT NAME: POWER METER	PART No.: POWER METER
DESIGNER: M. UCELLI	DATE: 12/07/2006 REVISION: 1.0 SCALE: 2:1 SIZE: A4 PAGE: 1 OF 1
FILE LOCATION: \\Utsrv\Rilasciati\2_Schede\SL042MT1001	PROJECT CODE: 042 CODE: SL042MT1001
MATERIAL: <>	TREATMENT: <> PROFILE: <> STATE: EXECUTIVE

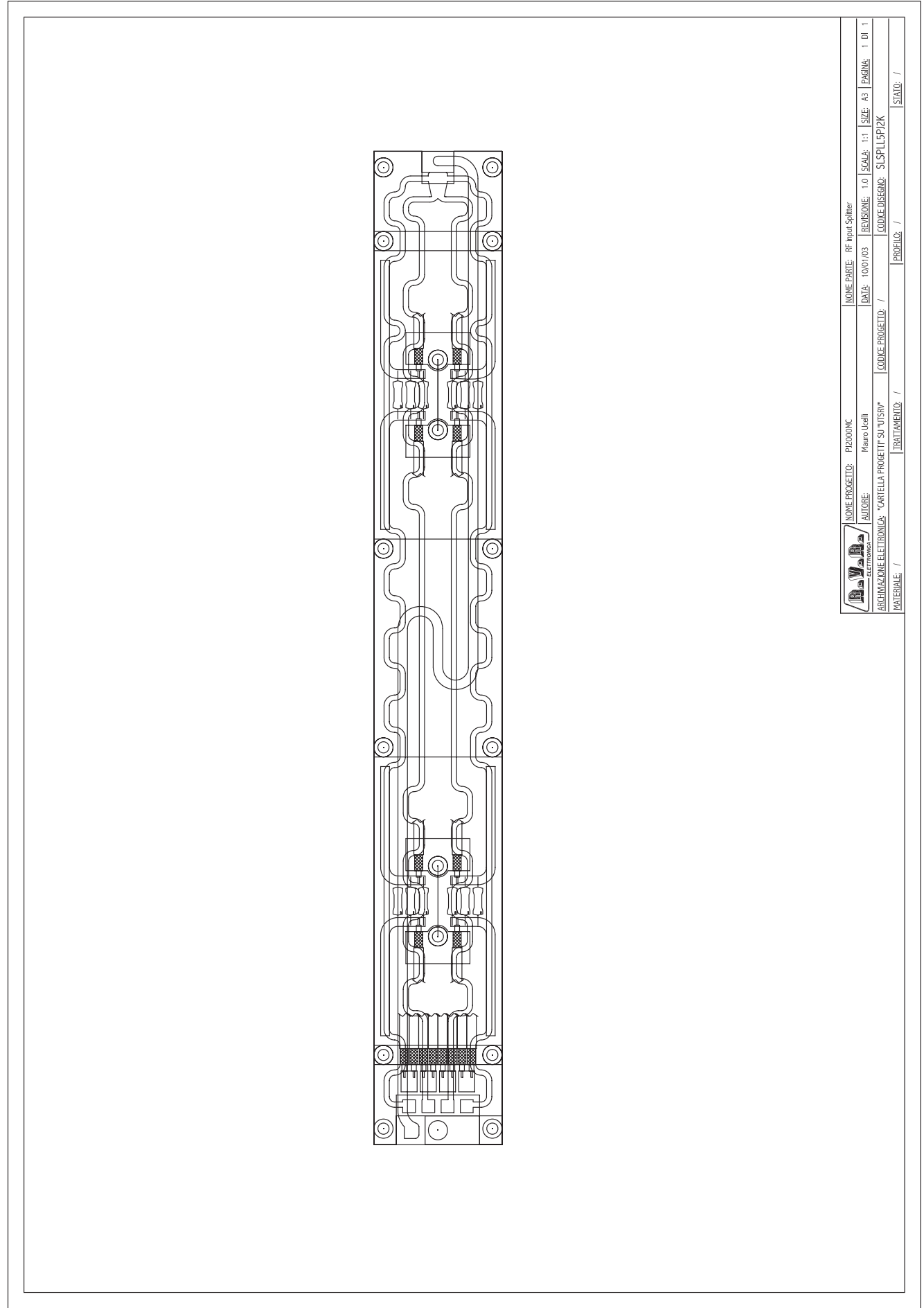
SL042MT1501

RF Power measure board  
 SL042MT1001  
 Revision: 1.1  
 Generic RF PWR Measurement  
 042  
 Mauro Ucelli  
 17/04/2008

Item	Quantity	Reference	Part	Description	Code1
1	1	CS1	CSMT0037R1	Printed Circuit Board	CSMT0037R1
2	1	C1	47p	SMD 0805 COG Capacitor	CCC085470JCC
3	1	C2	15p	SMD 0805 COG Capacitor	CCC085150JCC
4	3	C3,C4,C7	1n	SMD 0805 Capacitor	CCC085102JNC
5	1	C5	47uF_16V	Elect. SMD d. 6.3mm Cap.	CES476C160
6	1	C6	100n	SMD 0805 Capacitor	CCC085104KXC
7	1	D1	BAS83	MINIMELF SMD Diode	DHCBAS83
8	3	FID1,FID2,FID3	FID		
9	4	FIX1,FIX2,FIX3,FIX4	FIX35	Fixing Hole 3.5mm	
10	3	J1,J2,J3	JSMD	SMD Pad to solder	
11	3	PAD1,PAD2,PAD3	PAD		
12	1	RV1	200R	Trimmer SMD	RVT4X4H0200V
13	1	RV2	50k	Trimmer SMD	RVT4X4K0050V
14	2	R1,R2	NC	SMD 0805 Res.	
15	1	W1	Link	Wire to solder	See the Layout



Nome Progetto: PJ2000MC		Pagina: 1 di 1		Size: A4
Autore: Mauro Ucelli		Data: 10/01/03		Codice Progetto: PJ2000MC
Nome PC In Rete: IUT_SRV		Revisione: 1.0		Nome Parte: RF Input Splitter
File/Cartella: Progetti/Schede		Autorizzazione:		Codice: SLSPLL5PJ2K

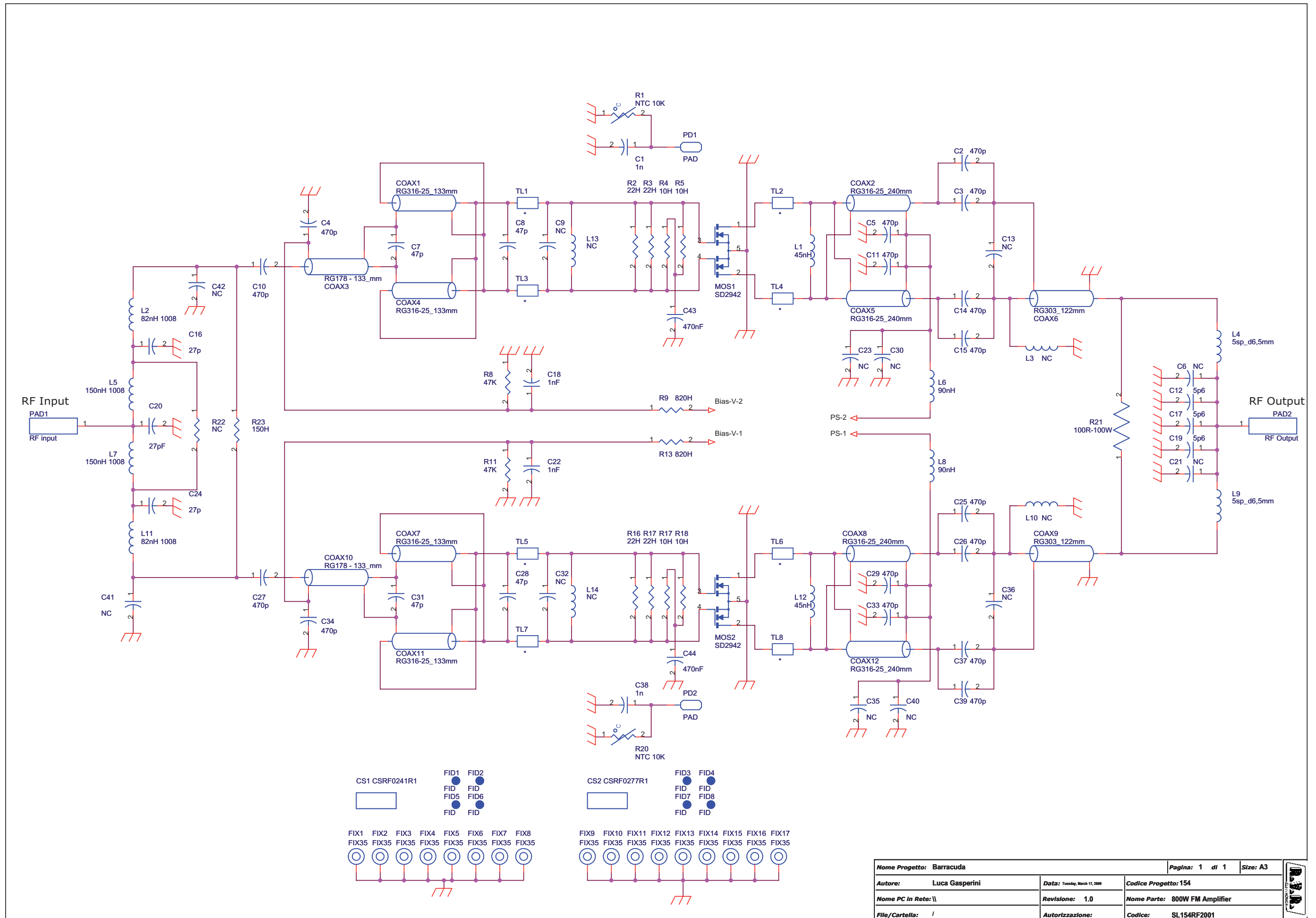


Nome Progetto: PJ2000MC	Nome Parte: RF Input Splitter
Autore: Mauro Ucelli	Data: 10/01/03
Revisione: 1.0	Scala: 1:1
Codice Progetto: /	Revisione: 1.0
Codice Disegno: SLSPLL5PJ2K	Scala: 1:1
Autore: /	Nome Parte: /
Trattamento: /	Codice: /
Materiale: /	Stato: /

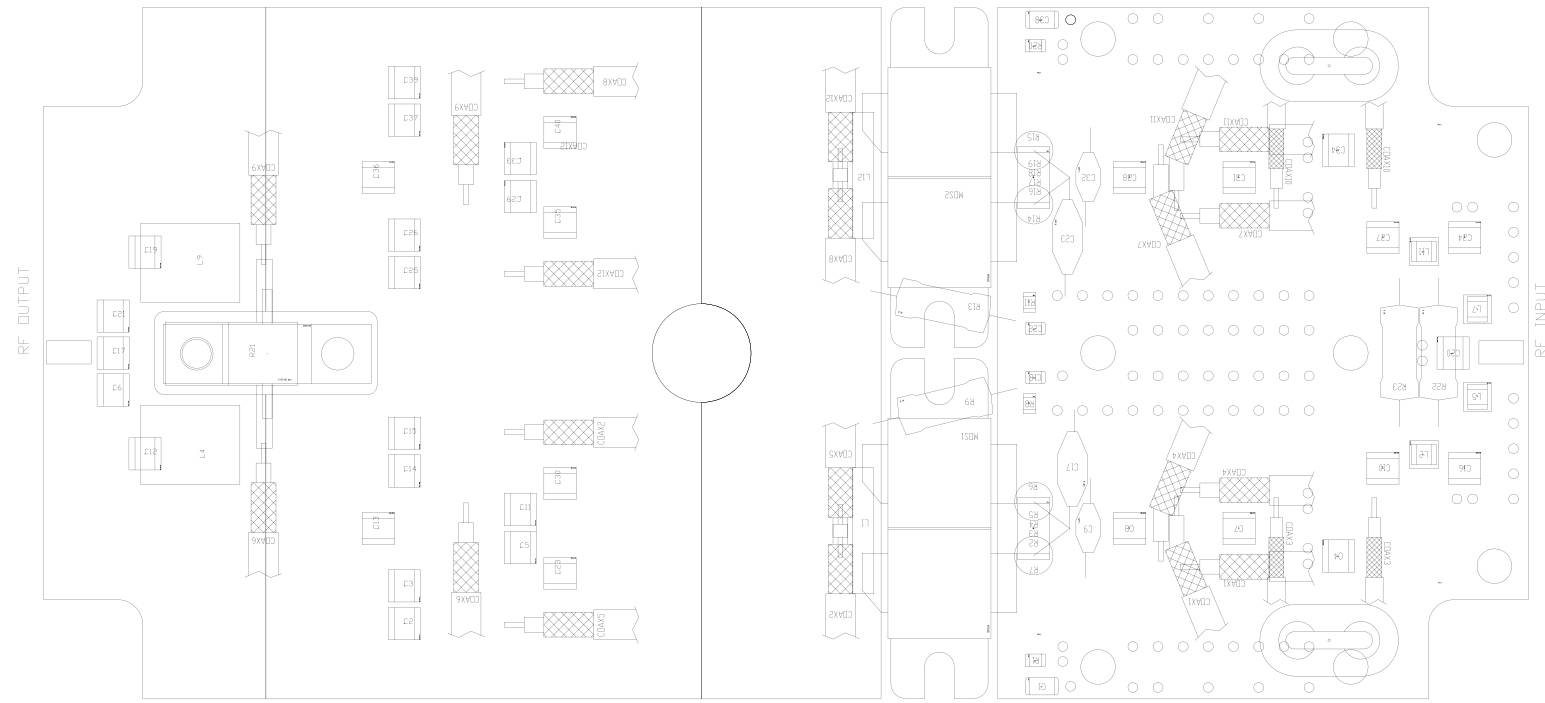


SPLITTER Revised: 05/04/04  
 SLSITEX500L1 Revision: 1.0  
 TEX500LCD  
 12  
 Gasperini Luca

Item	Quantity	Reference	Part	Description
1	1	PAD1	PALLET1	
2	1	PAD2	PALLET2	
3	1	PAD3	DRIVER	
4	1	R7	100H_CADDOCK	
5	2	TL1, TL2	70,7H	



Nome Progetto: Barracuda		Pagina: 1 di 1		Size: A3
Autore: Luca Gasperini	Data: Tuesday, March 17, 2009	Codice Progetto: 154		
Nome PC in Rete: \	Revisione: 1.0	Nome Parte: 800W FM Amplifier		
File/ Cartella: /	Autorizzazione:	Codice: SL154RF2001		



NOME PROGETTO: BARRACUDA

AUTORE: L. GASPERINI

ARCHIVIAZIONE ELETTRONICA: "CARTELLA RILASCIATI" SU "UTSRV"

MATERIALE: <>

NOME PARTE: SEM.SCH. PALLET 800W X BARRACUDA

DATA: 17/03/2008 REVISIONE: 1.0 SCALA: 1:1 SIZE: A4 PAGINA: 1 DI 1

CODICE PROGETTO: 154 CODICE DISEGNO: SL154RF2001

TRATTAMENTO: <>

PROFILO: <>

STATO: ESECUTIVO

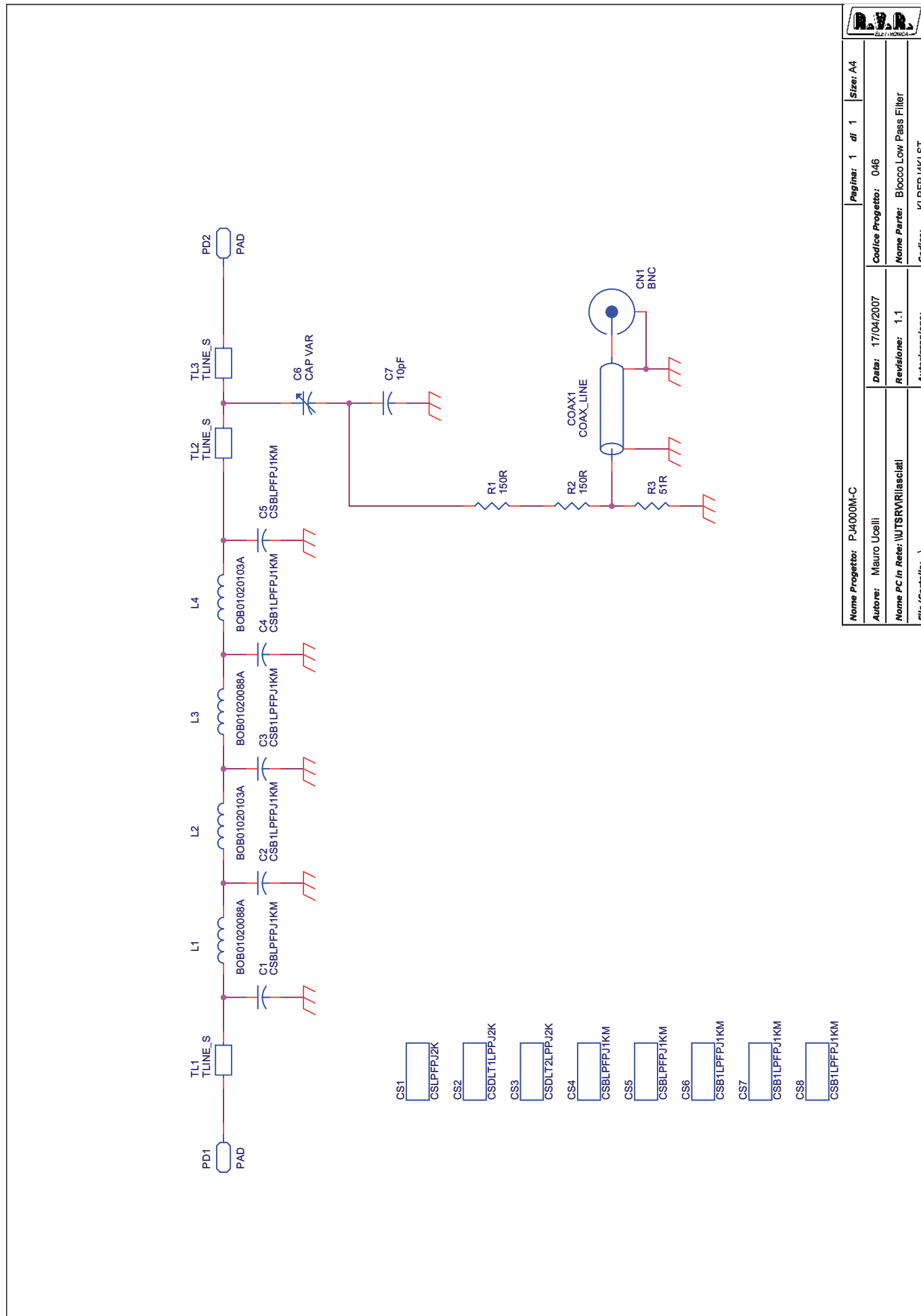
800W FM Amplifier Revised: Tuesday, March 17, 2009  
SL154RF2001 Revision: 1.0  
Barracuda  
154

Luca Gasperini

Item	Quantity	Reference	Part	(description)	CODICE AS400
1	4	COAX1, COAX4, COAX7, COAX11	RG316-25_133mm		
2	4	COAX2, COAX5, COAX8, COAX12	RG316-25_240mm		
3	2	COAX10, COAX3	RG178 - 133_mm	Cavo RG178 133mm in binocolo ferrite	
4	2	COAX6, COAX9	RG303_122mm	Cavo RG303	
5	1	CS1	CSRF0241R1	Circuito stampato	CSRF0241R1
6	1	CS2	CSRF0277R1	Circuito stampato	CSRF0277R1
7	2	C1, C38	1n	Cond. SMD 1206	CCC126102KXC
8	16	C2, C3, C4, C5, C10, C11, C14, C15, C25, C26, C27, C29, C33, C34, C37, C39	470p	Cond. SMD 1212 HQ	CHQ471JA201
9	11	C6, L13, L14, C21, R22, C23, C30, C35, C40, C41, C42	NC		
10	4	C7, C8, C28, C31	47p	Cond. SMD 1212 HQ	CHQ470JA501
11	2	C32, C9	NC	Cond. ceramico p 5mm	
12	3	C12, C17, C19	5p6	Cond. SMD 1212 HQ	CHQ5P6CA501
13	2	C13, C36	NC	Cond. SMD 1212 HQ	
14	2	C24, C16	27p	Cond. SMD 1212 HQ	CHQ270JA501
15	2	C18, C22	1nF	Cond. SMD 0805 COG	CCC085102JNC
16	1	C20	27pF	Cond. SMD 1212 HQ	CHQ270JA501
17	2	C43, C44	470nF	Cond. ceramico p 5mm	CMS474MC500
18	8	FID1, FID2, FID3, FID4, FID5, FID6, FID7, FID8	FID	Fiducial CS	
19	17	FIX1, FIX2, FIX3, FIX4, FIX5, FIX6, FIX7, FIX8, FIX9, FIX10, FIX11, FIX12, FIX13, FIX14, FIX15, FIX16, FIX17	FIX35	Foro fissaggio 3.5mm	
20	2	L12, L1	45nH	0.5 Spire Filo R. Arg. 2mm avvolte su D. 12mm	BOB01020078A
21	2	L11, L2	82nH 1008	IND SMD 1008	IMP82NS108
22	2	L10, L3	NC	Induttanza cilindrica	
23	2	L4, L9	5sp_d_6,5mm		BOB01020116A
24	2	L7, L5	150nH 1008	IND SMD 1008	IMP150NS108
25	2	L6, L8	90nH	6 Spire Filo R. Small. 0.8mm avvolte su D. 4.5mm Lung. 12mm	BOB01010006A
26	2	MOS2, MOS1	SD2942	PP Power mosfet RF	TRNSD2942
27	1	PAD1	RF input		
28	1	PAD2	RF Output		
29	2	PD1, PD2	PAD		
30	2	R1, R20	NTC 10K	Res. NTC SMD	RNTC085K103K
31	4	R2, R3, R16, R17	22H	Res. SMD 2512 5%	RCH252F0022H
32	4	R4, R5, R17, R18	10H	Res. 2W	RSM002J0010H
33	2	R11, R8	47K	Res. SMD 0805 1%	RCH085F0047K
34	2	R13, R9	820H	Res. 2W	RSM002J0820H
35	1	R21	100R-100W	Resistenza KDI 2 fix	RDR100J0100H
36	1	R23	150H	Res. 2W	RSM002J0150H
37	8	TL1, TL2, TL3, TL4, TL5, TL6, TL7, TL8	*	Linea strip CS	

SL

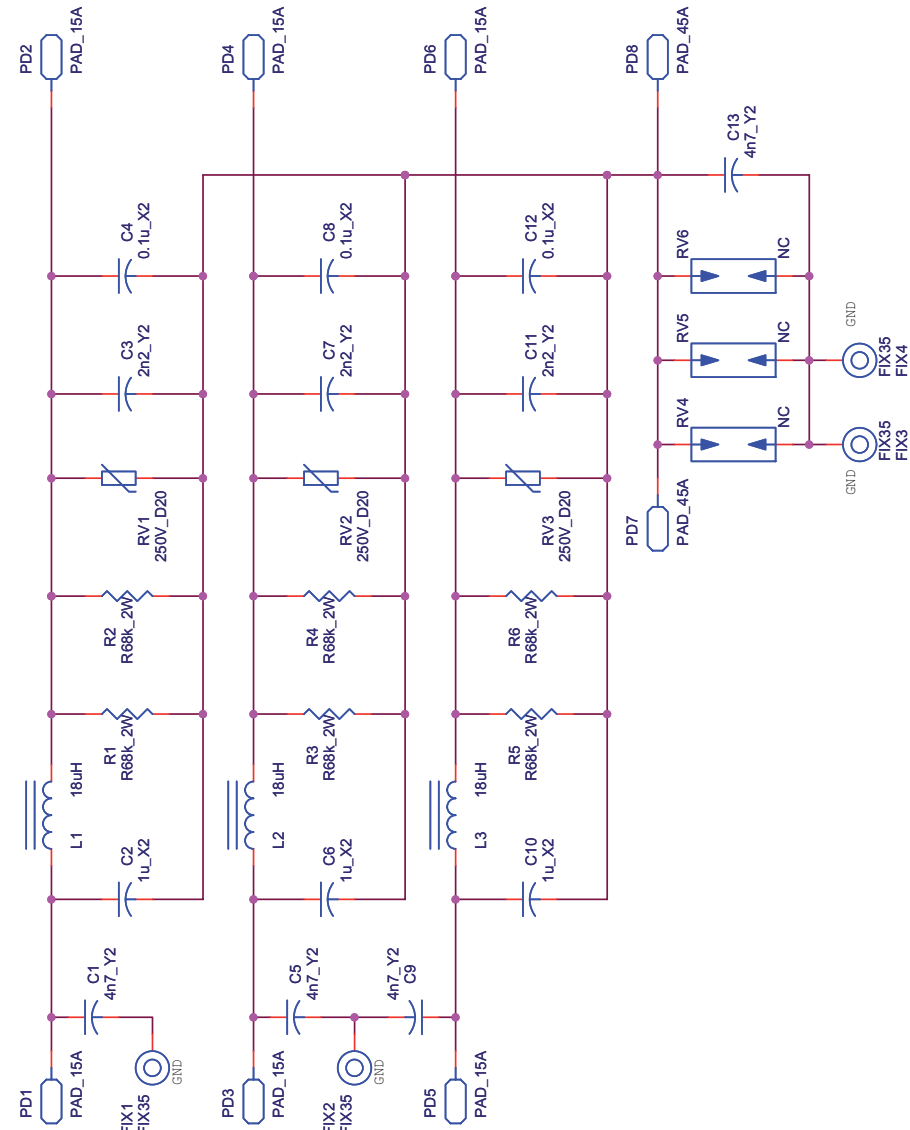




Nome Progetto: PJ4000MC	Pagina: 1	di 1	Size: A4
Autore: Mauro Ucelli	Codice Progetto: 046	Data: 17/04/2007	
Nome PC in Rete: \UTSR\RIasciati	Revisione: 1.1	Nome Parte: Blocco Low Pass Filter	
File/Cartella: \	Autorizzazione:	Codice: KLPPFJ4KLST	

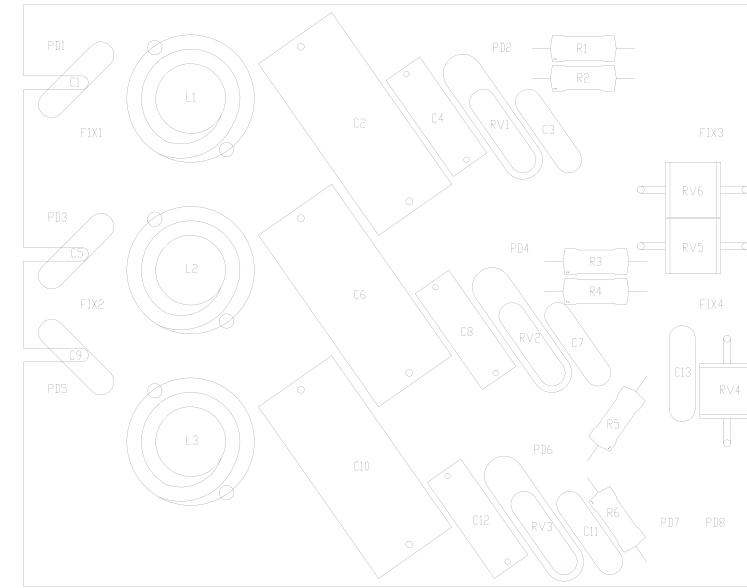
Blocco Low Pass Filter  
KLPPFJ2KLST Revision: 1.0  
17/04/2007 Rev.1.1  
PJ4000MC  
Mauro Ucelli

Item	Quantity	Reference	Part
1	1	CN1	BNC
2	1	COAX1	COAX_LINE
3	1	CS1	CSLPPFJ2K
4	1	CS2	CSDLT1LPPJ2K
5	1	CS3	CSDLT2LPPJ2K
6	4	C1, CS4, CS5, C5	CSBLPFPJ1KM
7	6	C2, C3, C4, CS6, CS7, CS8	CSB1LPPFJ1KM
8	1	C6	CAP VAR
9	1	C7	10pF
10	2	L1, L3	BOB01020088A
11	2	L2, L4	BOB01020103A
12	2	PD1, PD2	PAD
13	2	R1, R2	150R
14	1	R3	51R
15	3	TL1, TL2, TL3	TLINE_S



CS1  
CSSR0176R2

Nome Progetto: PJ4000MC		Pagine: 1 di 1		Size: A4	
Autore: Mauro Ucelli		Codice Progetto: 046		Nome Parte: Mains filter	
Nome PC in Rete: /UTSRV/Rilasciati		Data: 27/03/08		Revisione: 1.0	
File/Carrelli:		Autorizzazioni:		Codice: SL046SR1002	

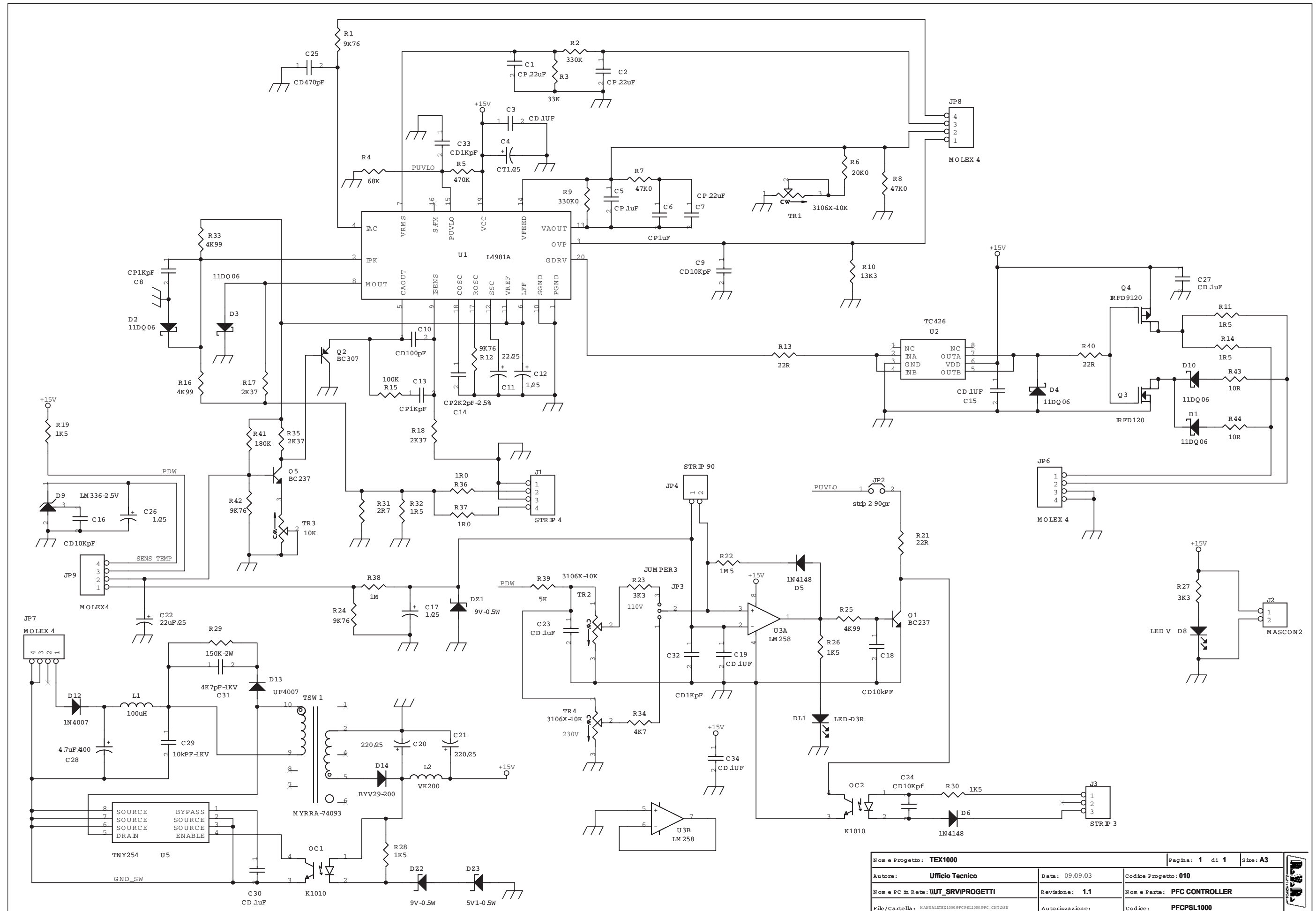


NOME PROGETTO:	PJ4000M-C	NOME PARTE:	MAIN FILTER
AUTORE:	M. UCELLI	DATA:	27/03/2008
REVISIONE:	1.0	SCALA:	1:1
SIZE:	A4	PAGINA:	1 DI 1
ARCHIVIAZIONE ELETTRONICA:	"CARTELLA RILASCIATI" SU "UTSRV"	CODICE PROGETTO:	046
CODICE DISEGNO:	SL046SR1002	MATERIALE:	<>
TRATTAMENTO:	<>	PROFILO:	<>
STATO:	ESECUTIVO		

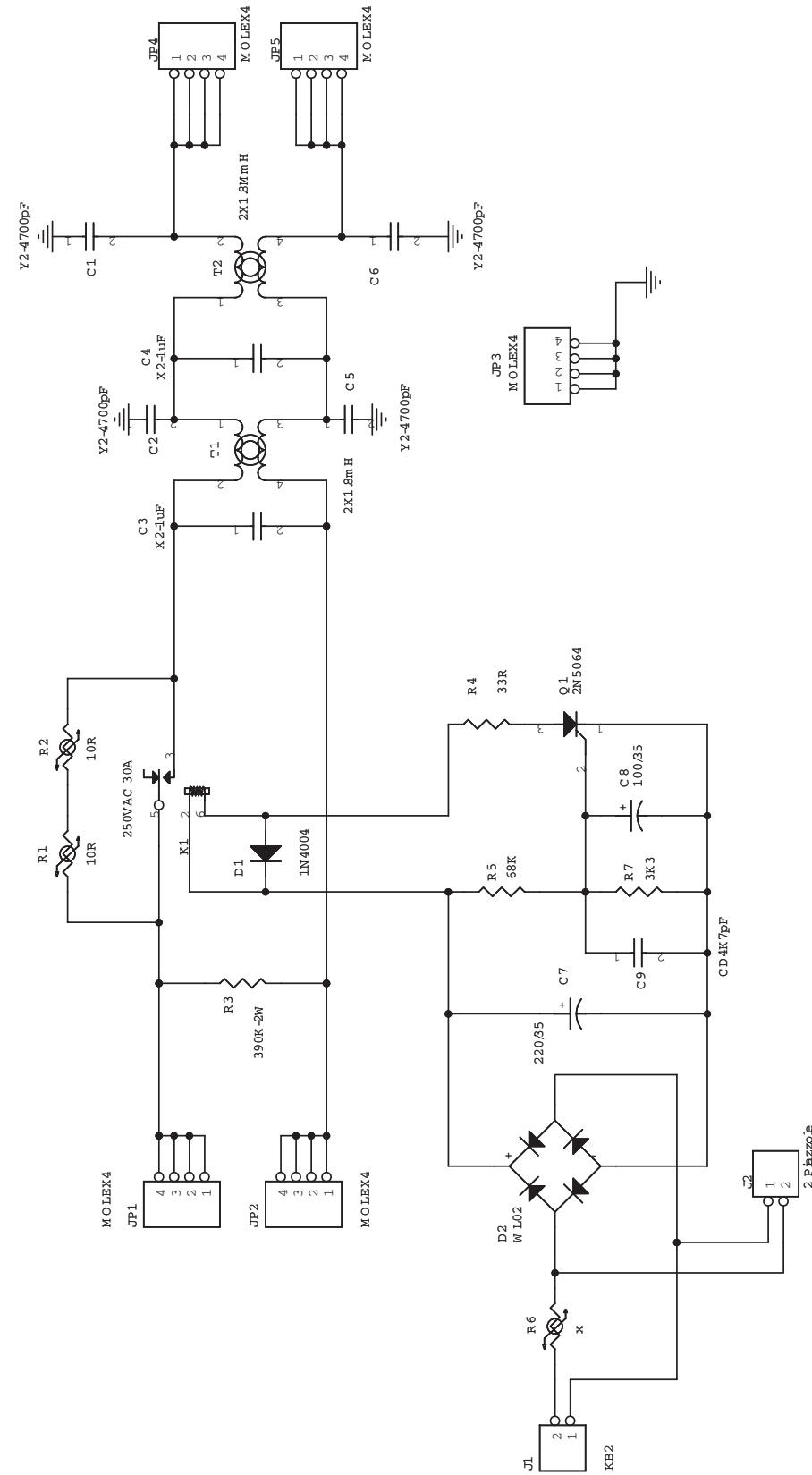
Mains filter  
 SL046SR1002  
 Revision: 1.0  
 PJ4000MC  
 046  
 Mauro Ucelli  
 27/03/08

Item	Quantity	Reference	Part	Description	Code1
1	1	CS1	CSSR0176R2		CSSR0176R2
2	4	C1,C5,C9,C13	4n7_Y2	Condensatore tipo Y2	CCY472MD250
3	3	C2,C6,C10	1u_X2	Condensatore tipo X2	CPP105MN271
4	3	C3,C7,C11	2n2_Y2	Condensatore tipo Y2	CCY222MD251
5	3	C4,C8,C12	0.1u_X2	Condensatore tipo X2	CPP104MG271
6	4	FIX1,FIX2,FIX3,FIX4	FIX35		
7	3	L1,L2,L3	18uH	Induttanza su cilindro di ferrite	BOB02010004A
8	6	PD1,PD2,PD3,PD4,PD5,PD6	PAD_15A		
9	2	PD7,PD8	PAD_45A		
10	3	RV1,RV2,RV3	250V_D20	Varistore a pastiglia diametro 20mm	MOV250V40
11	3	RV4,RV5,RV6	NC	Surge Arrester	
12	6	R1,R2,R3,R4,R5,R6	R68k_2W	Resistenza 2W	RSM002J0068K



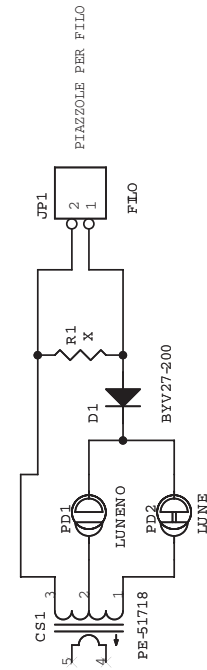


Nome Progetto: <b>TEX1000</b>	Pagina: <b>1 di 1</b>	Size: <b>A3</b>
Autore: <b>Ufficio Tecnico</b>	Data: <b>09/09/03</b>	Codice Progetto: <b>010</b>
Nome PC in Rete: <b>WUT_SRVPROGETTI</b>	Revisione: <b>1.1</b>	Nome Parte: <b>PFC CONTROLLER</b>
File/Cartella: <small>MANUALTEX1000/PFCPSL1000/PFC_CNT.DSN</small>	Autorizzazione:	Codice: <b>PFCPSL1000</b>

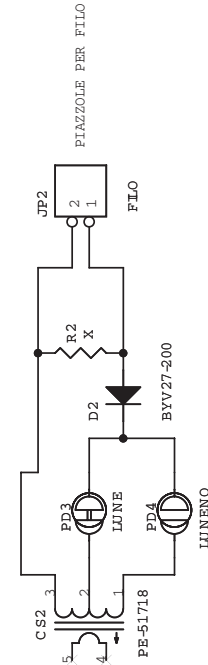


R.V.R. ELETTRONICA	
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Autore: <b>Ufficio Tecnico</b>	Data: <b>09/09/03</b>
Nome e PC in Rete: <b>\\UT_SRV\PROGETTI</b>	Codice Progetto: <b>010</b>
File/Cartella: <b>MANUAL\TEX1000\PFCPSL1000\PFC_FLT.dwg</b>	Revisione: <b>1.1</b>
	Nome e Parto: <b>SOFT SART E FILTRO EMI</b>
	Codice: <b>PFCPSL1000</b>
	Autore/Revisione:

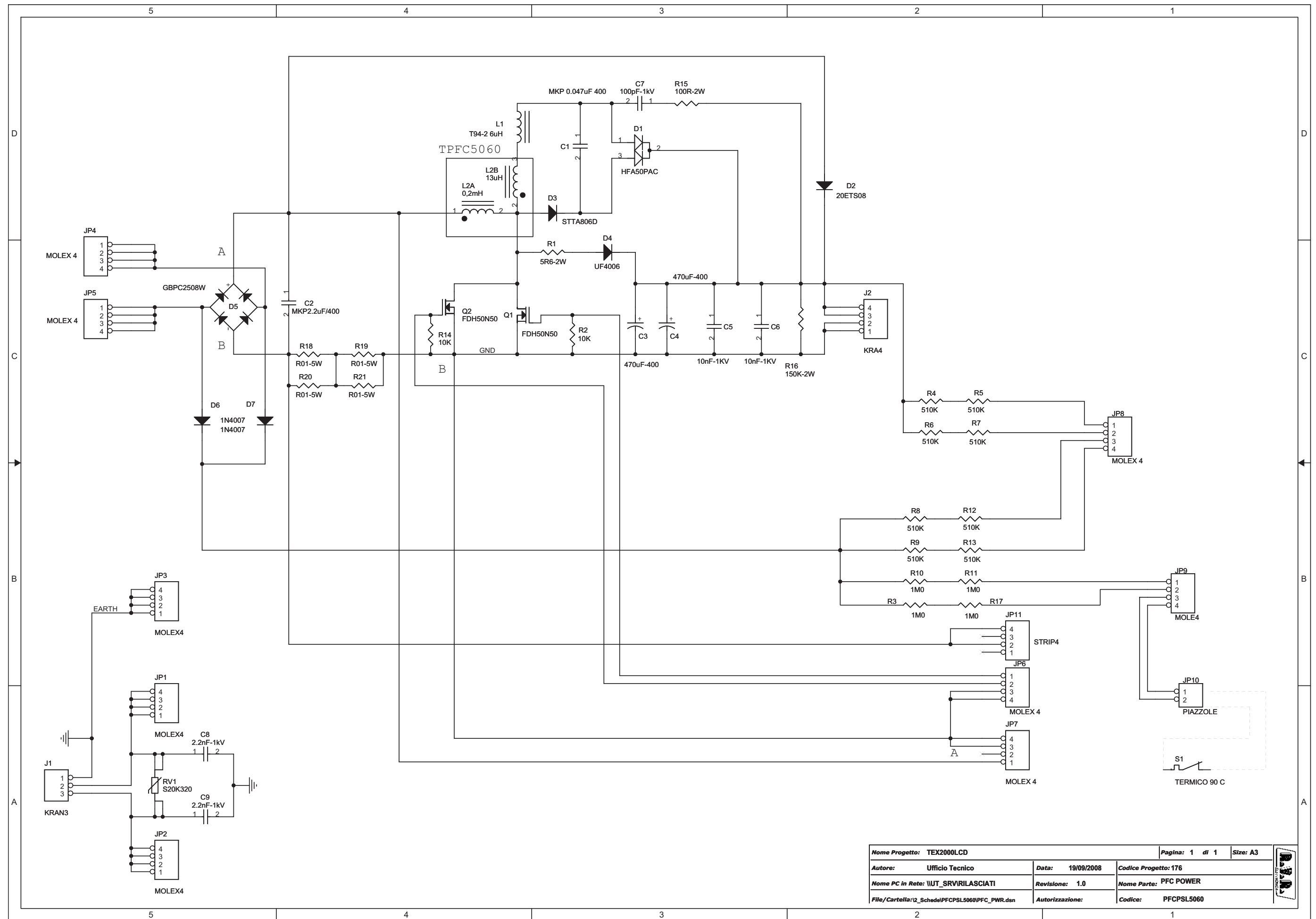
DIODO



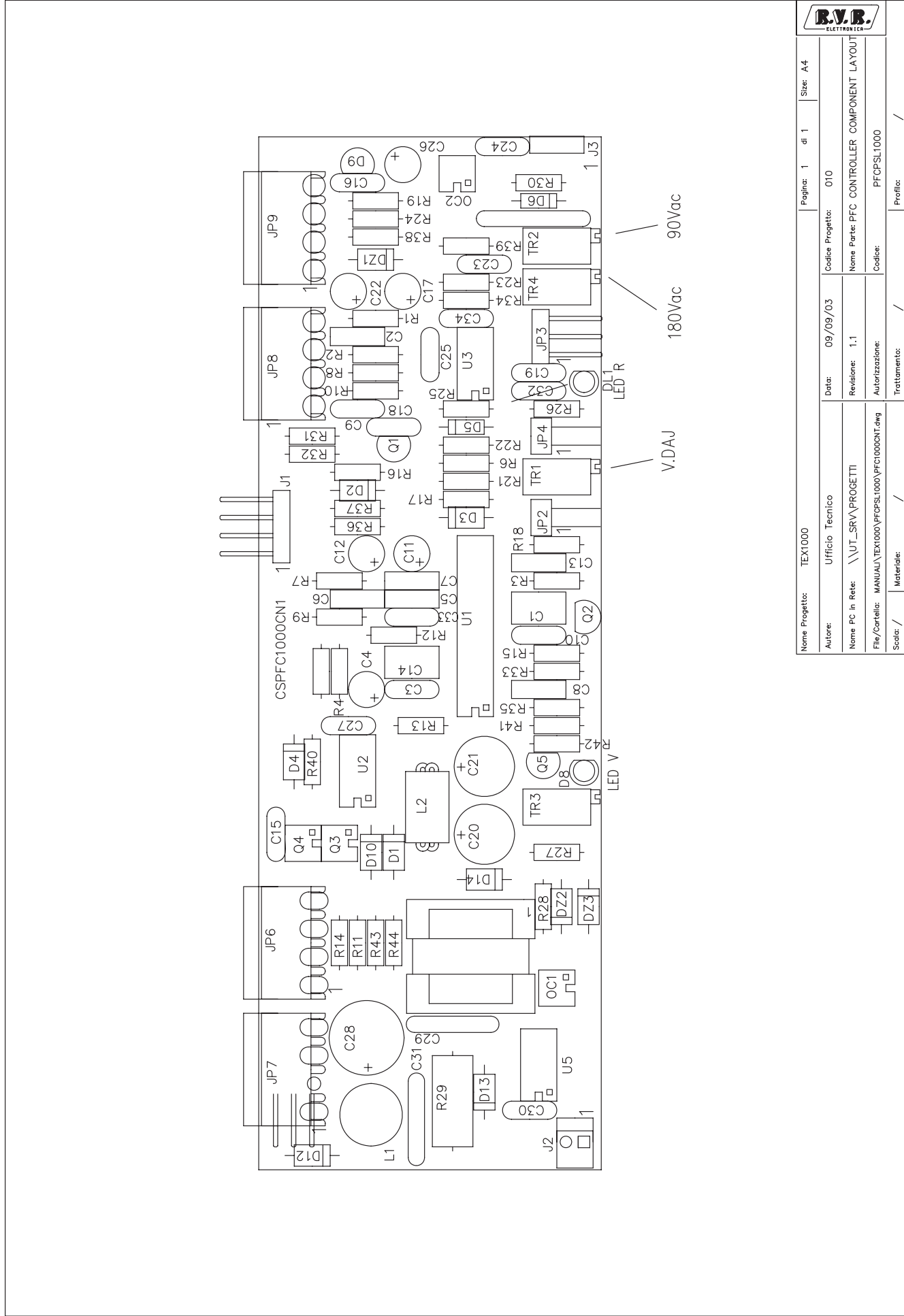
MOSFET



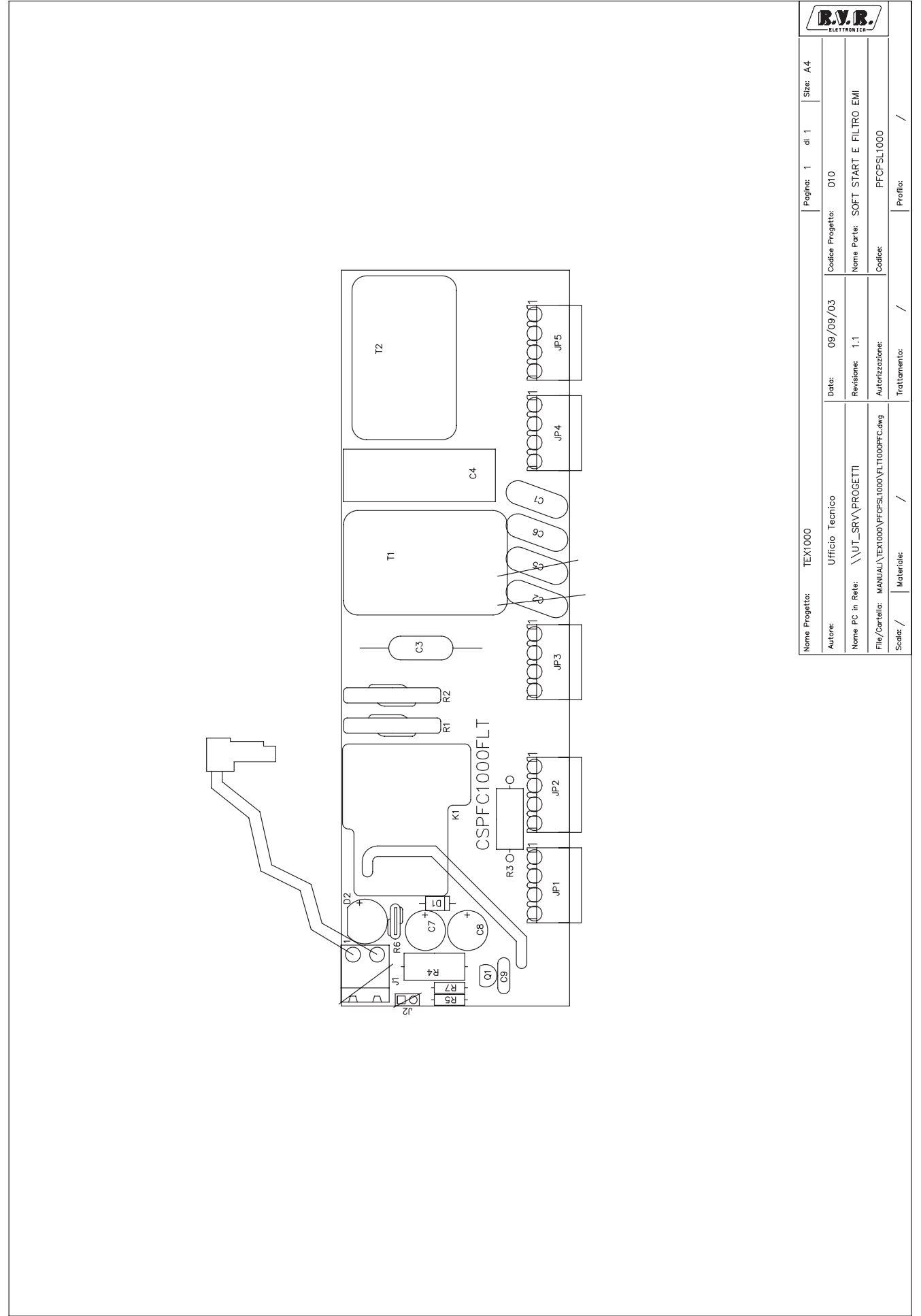
R.V.R. ELETTRONICA	
Nome e Progetto: <b>TEX1000</b>	Pagina: <b>1</b> di <b>1</b> Size: <b>A4</b>
Autore: <b>Ufficio Tecnico</b>	Data: <b>09/09/03</b>
Nome e PC in Rete: <b>\\UT_SRV\PROGETTI</b>	Codice Progetto: <b>010</b>
File/Cartella: <b>MANUAL\TEX1000\PFCPSL1000\PFC_TG2.dwg</b>	Revisione: <b>1.1</b>
	Nome e Parto: <b>SENSORE DI CORRENTE PER PFC</b>
	Codice: <b>PFCPSL1000</b>
	Autore/Revisione:



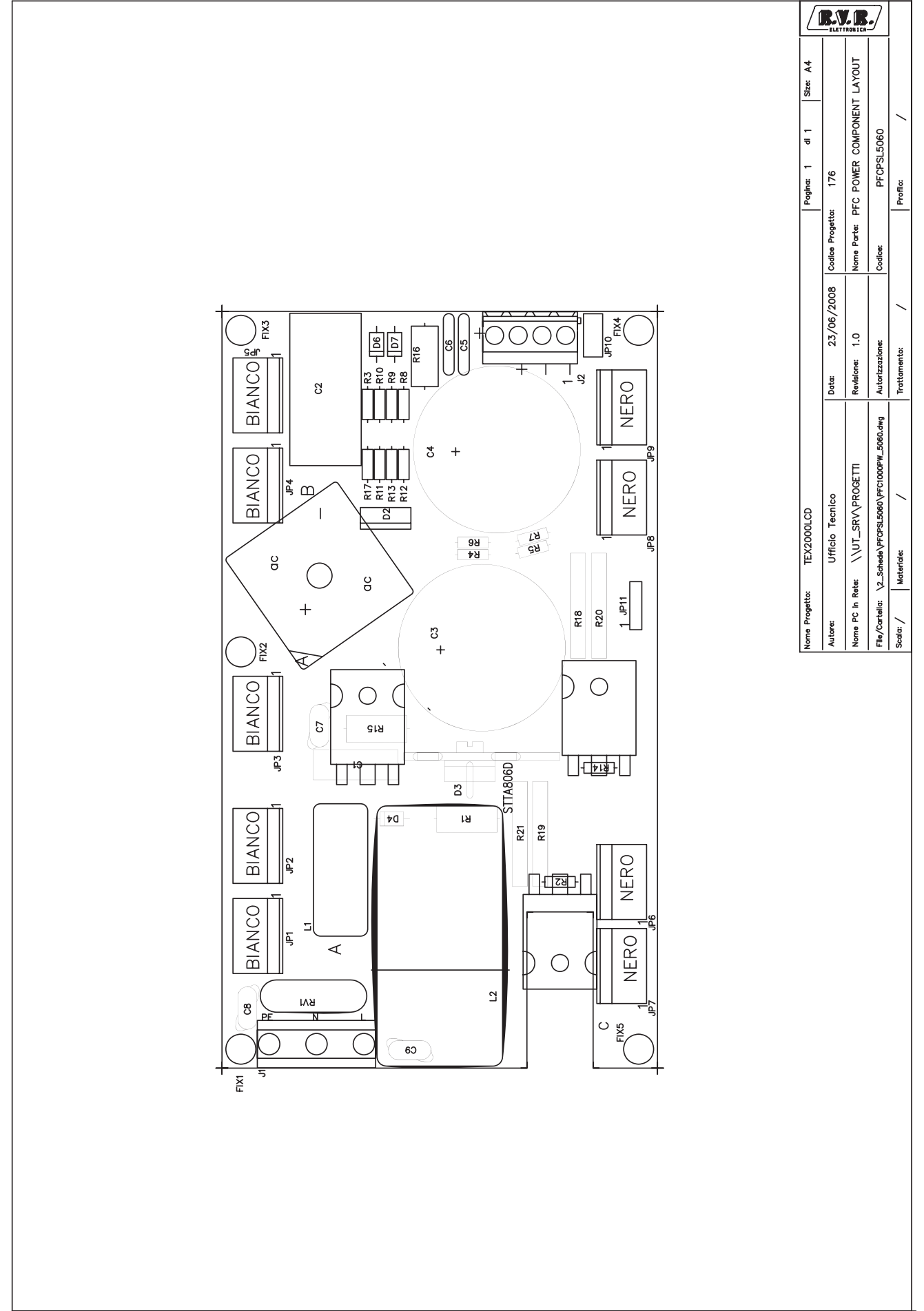
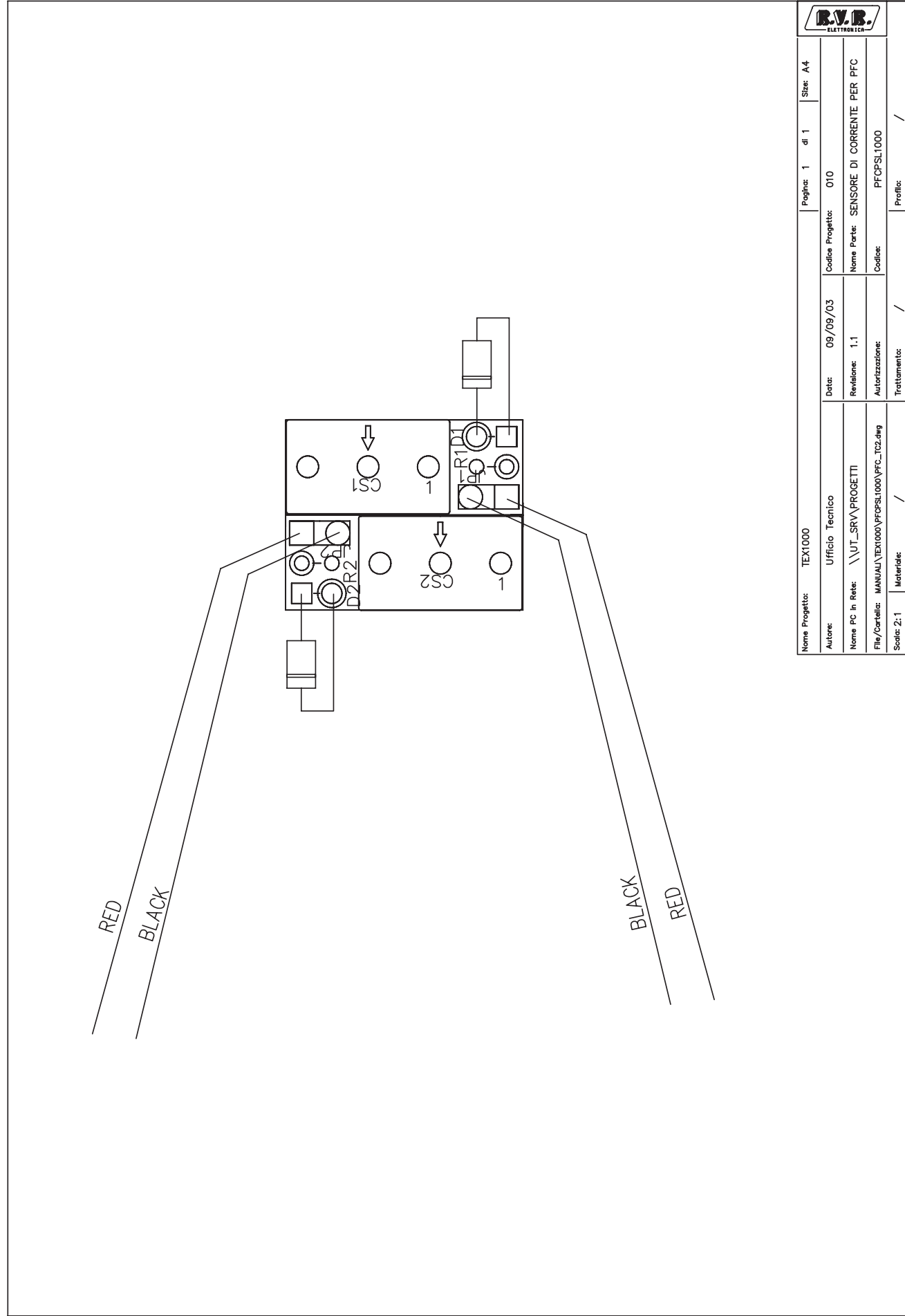
Nome Progetto: TEX2000LCD		Pagina: 1 di 1		Size: A3
Autore: Ufficio Tecnico	Data: 19/09/2008	Codice Progetto: 176		
Nome PC in Rete: \\\UT_SRV\RILASCIATI		Revisione: 1.0	Nome Parte: PFC POWER	
File/Cartella: \2_Schede\PFCPSL5060\PFC_PWR.dsn		Autorizzazione:	Codice: PFCPSL5060	



Nome Progetto: TEX1000		Pagina: 1 di 1		Size: A4
Autore: Ufficio Tecnico		Data: 09/09/03		Codice Progetto: 010
Nome PC in Rete: \\UT_SRV\PROGETTI		Revisione: 1.1		Nome Parte: PFC CONTROLLER COMPONENT LAYOUT
File/Carrello: MANUALE\TEX1000\VFCSL1000\PFC1000CNT.dwg		Autorizzazione: /		Codice: PFCPSL1000
Scala: /	Materiale: /	Trattamento: /		Profilo: /



Nome Progetto: TEX1000		Pagina: 1 di 1		Size: A4
Autore: Ufficio Tecnico		Data: 09/09/03		Codice Progetto: 010
Nome PC in Rete: \\UT_SRV\PROGETTI		Revisione: 1.1		Nome Parte: SOFT START E FILTRO EMI
File/Carrello: MANUALE\TEX1000\VFCSL1000\FLT1000PFC.dwg		Autorizzazione: /		Codice: PFCPSL1000
Scala: /	Materiale: /	Trattamento: /		Profilo: /



PFC CONTROLLER Revised: Tuesday, September 16, 2003  
PFCPSL1000 Revision: 1.1  
TEX1000

Item	Quantity	Reference	Part
1	3	C1,C2,C7	CP 22uF
2	7	C3,C15,C19,C23,C27,C30,C34	CD 1uF
3	1	C4	CT1/25
4	1	C5	CP 1uF
5	1	C6	CP1uF
6	2	C8,C13	CP1KpF
7	4	C9,C16,C18,C24	CD10KpF
8	1	C10	CD100pF
9	1	C11	22/25
10	3	C12,C17,C26	gen-25
11	1	C14	CP2K2pF-2.5%
12	2	C21,C20	220/25
13	1	C22	22uF/25
14	1	C25	CD470pF
15	1	C28	4.7uF/400
16	1	C29	10kPF-1KV
17	1	C31	4K7pF-1KV
18	2	C33,C32	CD1KpF
19	1	D11	LED-D3R
20	2	DZ1,DZ2	9V-0.5W
21	1	DZ3	5V1-0.5W
22	5	D1,D2,D3,D4,D10	11DQ 06
23	2	D6,D5	1N4148
24	1	D8	LED V
25	1	D9	LM 336-2.5V
26	1	D12	1N4007
27	1	D13	UF4007
28	1	D14	BYV29-200
29	1	JP2	strip 2 90gr
30	1	JP3	JUMPER 3
31	1	JP4	STRIP 90
32	3	JP6,JP7,JP8	MOLEX 4
33	1	JP9	MOLEX4
34	1	J1	STRIP 4
35	1	J2	MASCON2
36	1	J3	STRIP 3
37	1	L1	100uH
38	1	L2	VK200
39	2	OC2,OC1	K1010
40	2	Q1,Q5	BC237
41	1	Q2	BC307
42	1	Q3	IRFD120
43	1	Q4	IRFD9120
44	4	R1,R12,R24,R42	9K76
45	1	R2	330K
46	1	R3	33K
47	1	R4	68K
48	1	R5	470K
49	1	R6	20K0

Item	Quantity	Reference	Part
50	2	R8,R7	47K0
51	1	R9	330K0
52	1	R10	13K3
53	3	R11,R14,R32	1R5
54	3	R13,R21,R40	22R
55	1	R15	100K
56	3	R16,R25,R33	4K99
57	3	R17,R18,R35	2K37
58	4	R19,R26,R28,R30	1K5
59	1	R22	1M5
60	2	R23,R27	3K3
61	1	R29	150K-2W
62	1	R31	2R7
63	1	R34	4K7
64	2	R36,R37	1R0
65	1	R38	1M
66	1	R39	5K
67	1	R41	180K
68	2	R43,R44	10R
69	3	TR1,TR2,TR4	3106X-10K
70	1	TR3	10K
71	1	TSW 1	MYRRA-74093
72	1	U1	L4981A
73	1	U2	TC 426
74	1	U3	LM 258
75	1	U5	TNY254

SOFT SART E FILTRO EM I Revised: Tuesday, September 16, 2003  
PFCPSL1000 Revision: 1.1  
TEX1000

Item	Quantity	Reference	Part
1	4	C1,C2,C5,C6	Y2-4700pF
2	2	C4,C3	X2-1uF
3	1	C7	220/35
4	1	C8	100/35
5	1	C9	CD4K7pF
6	1	D1	1N4004
7	1	D2	W L02
8	5	JP1,JP2,JP3,JP4,JP5	MOLEX4
9	1	J1	KB2
10	1	J2	2 P iazzo le
11	1	K1	250VAC 30A
12	1	Q1	2N5064
13	2	R2,R1	10R
14	1	R3	390K-2W
15	1	R4	33R
16	1	R5	68K
17	1	R6	x
18	1	R7	3K3
19	1	T1	2X1.8m H
20	1	T2	2X1.8M m H

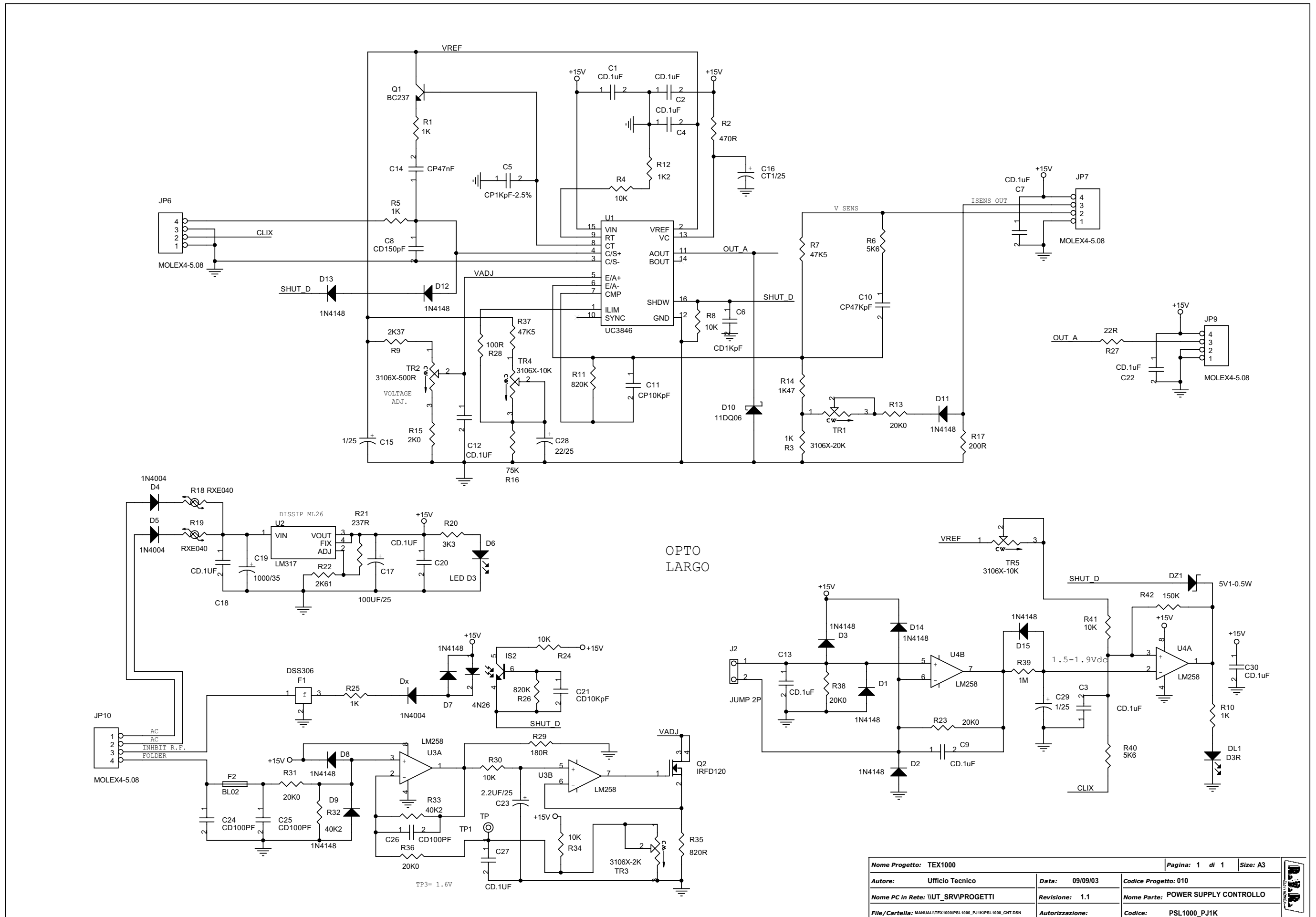
SENSORE D ICORRENTE PER PFC Revised: Tuesday, September 16, 2003  
PFCPSL1000 Revision: 1.1  
TEX1000

Item	Quantity	Reference	Part
1	2	CS1,CS2	PE-51718
2	2	D2,D1	BYV27-200
3	2	JP1,JP2	FLO
4	2	PD1,PD4	LUNENO
5	2	PD2,PD3	LUNE
6	2	R2,R1	X

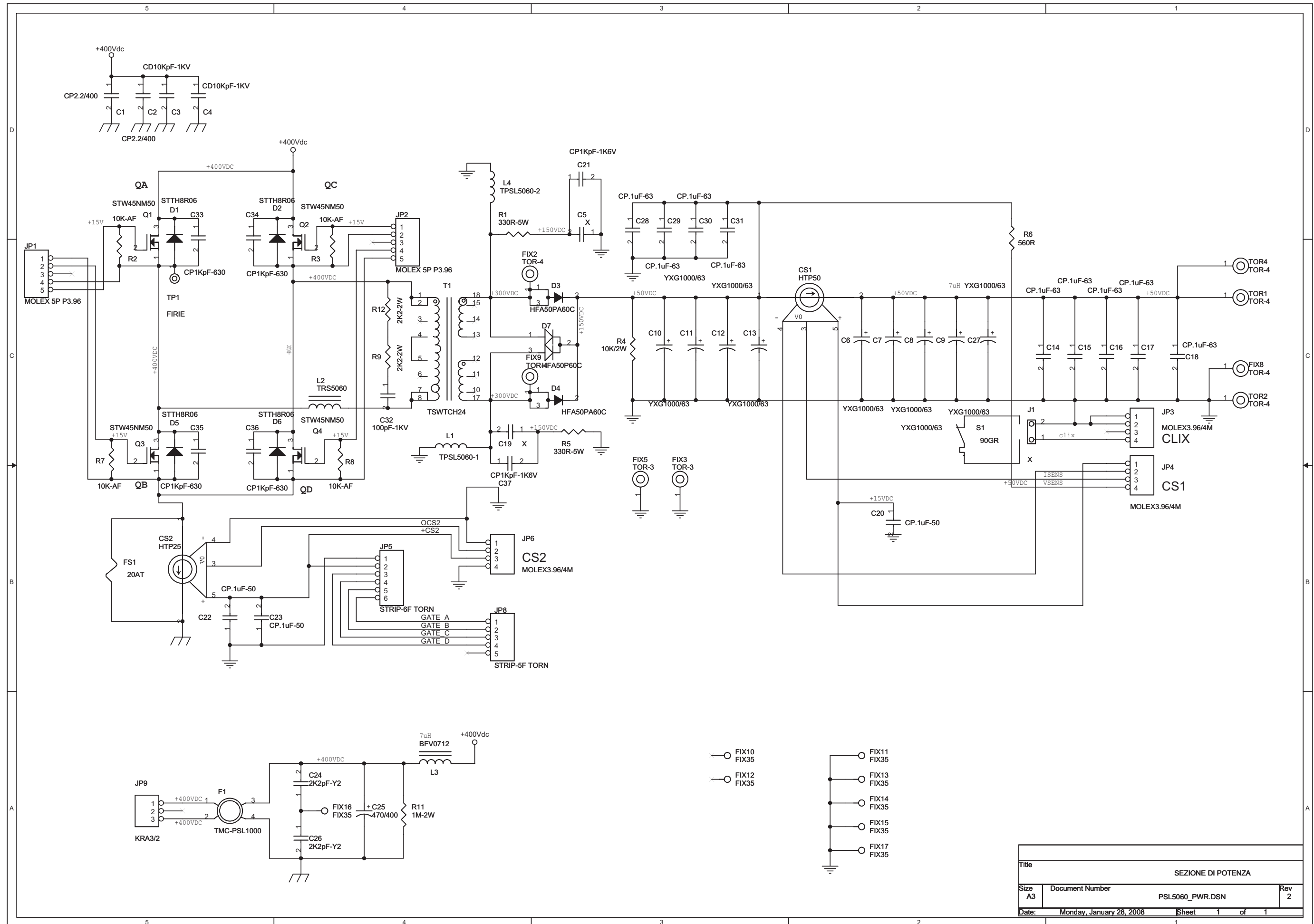
PFC POWER Revised: Monday, October 06, 2008  
PFCPSL5060 Revision: 1.0  
TEX2000LCD  
176  
Ufficio Tecnico

Item	Quantity	Reference	Part
1	1	C1	MKP 0.047uF 400
2	1	C2	MKP2.2uF/400
3	2	C3, C4	470uF-400
4	2	C5, C6	10nF-1KV
5	1	C7	100pF-1kV
6	2	C8, C9	2.2nF-1kV
7	1	D1	HFA50PAC
8	1	D2	20ETS08
9	1	D3	STTA806D
10	1	D4	UF4006
11	1	D5	GBPC2508W
12	2	D6, D7	1N4007
13	3	JP1, JP2, JP3	MOLEX4
14	5	JP4, JP5, JP6, JP7, JP8	MOLEX 4
15	1	JP9	MOLE4
16	1	JP10	PIAZZOLE
17	1	JP11	STRIP4
18	1	J1	KRAN3
19	1	J2	KRA4
20	1	L1	T94-2 6uH
21	1	L2	0.2mH
22	2	Q1, Q2	FDH50N50
23	1	RV1	S20K320
24	1	R1	5R6-2W
25	2	R2, R14	10K
26	4	R3, R10, R11, R17	1M0
27	8	R4, R5, R6, R7, R8, R9, R12, R13	510K
28	1	R15	100R-2W
29	1	R16	150K-2W
30	4	R18, R19, R20, R21	R01-5W
31	1	S1	TERMICO 90 C





Nome Progetto: TEX1000		Pagina: 1 di 1		Size: A3
Autore: Ufficio Tecnico	Data: 09/09/03	Codice Progetto: 010		
Nome PC in Rete: \\\UT_SRV\PROGETTI		Revisione: 1.1	Nome Parte: POWER SUPPLY CONTROLLO	
File/Cartella: MANUAL\TEX1000\PSL1000_PJ1K\PSL1000_CNT.DSN	Autorizzazione:	Codice: PSL1000_PJ1K		



Title		
SEZIONE DI POTENZA		
Size	Document Number	Rev
A3	PSL5060_PWR.DSN	2
Date:	Monday, January 28, 2008	Sheet 1 of 1

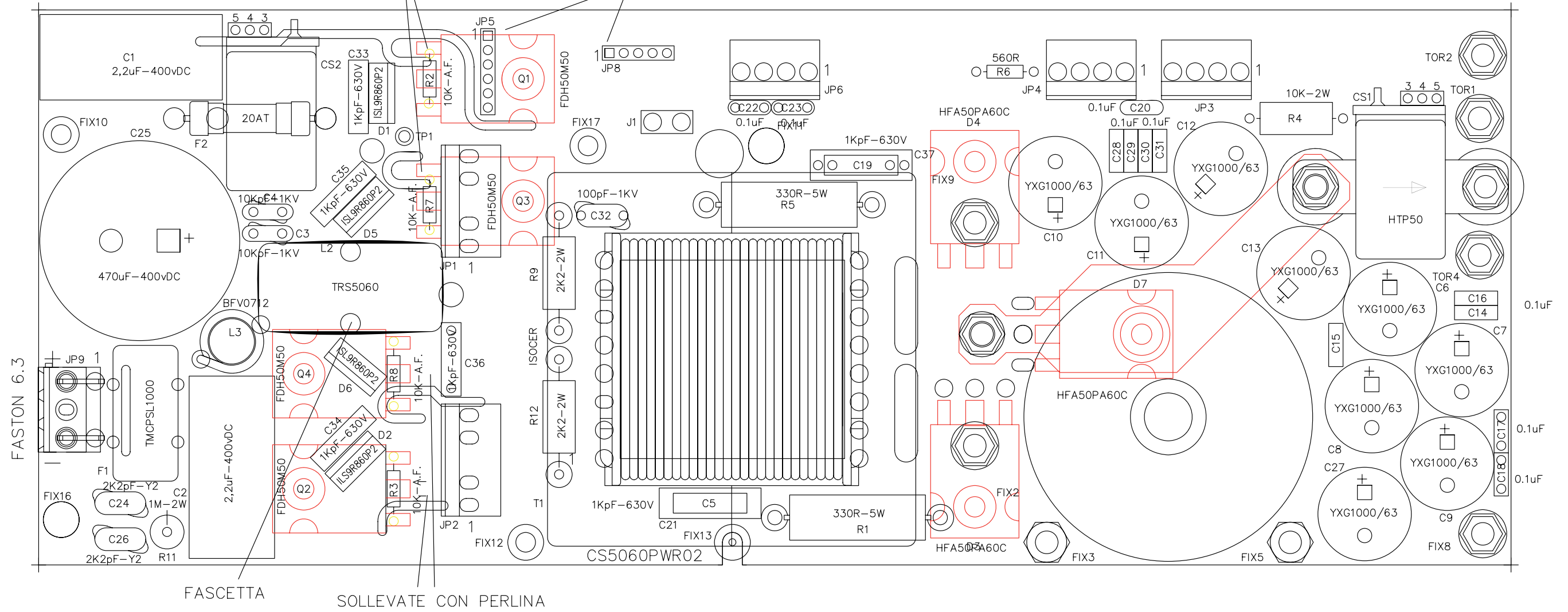
PSL5060

PREMERE LE CLIPS  
SUL FUSIBILE CON  
UNA PINZA



SOLLEVATE CON PERLINA

STRIP TORNITA

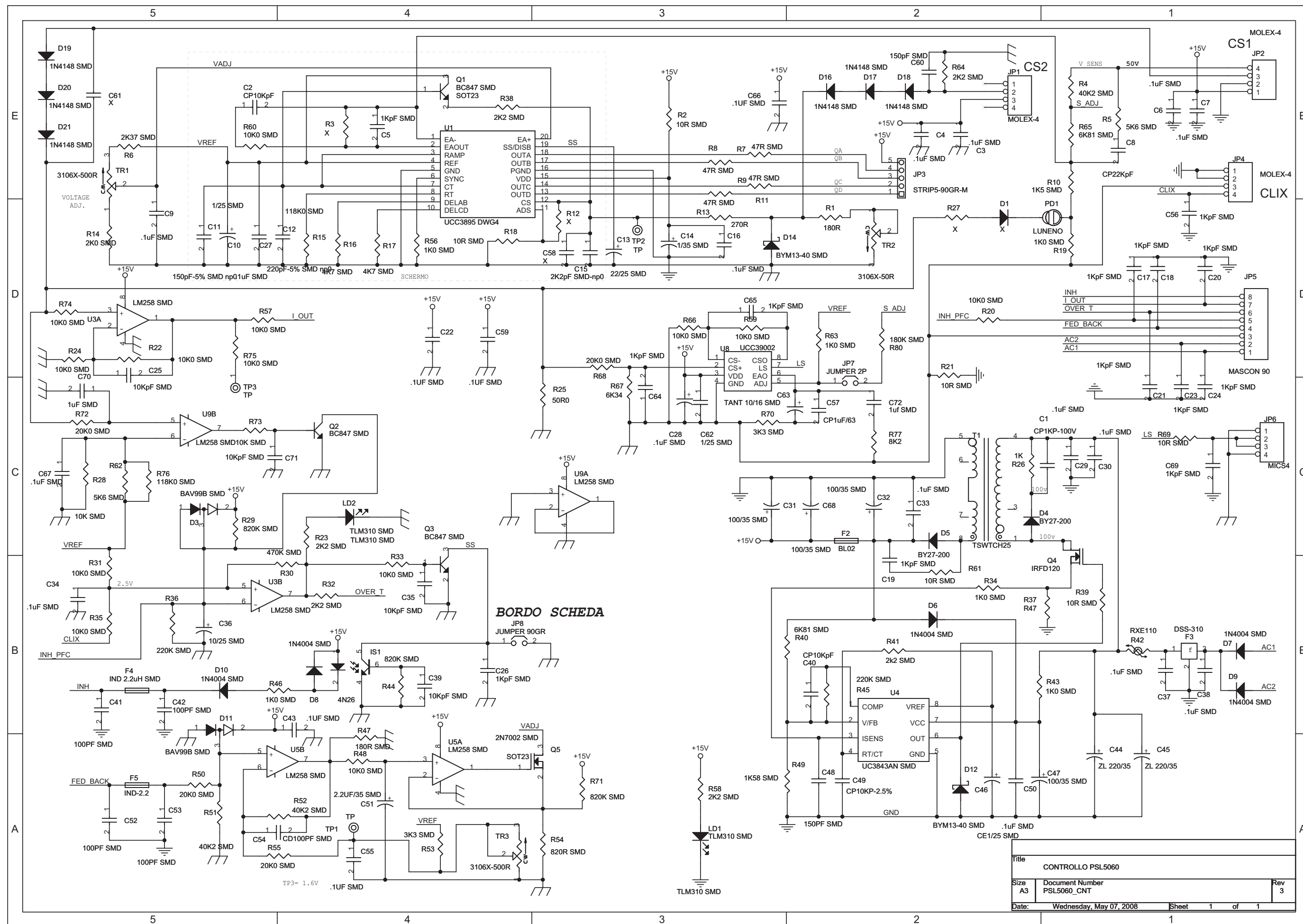


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DOCUMENT NUMBER	PSL5060PWR_01.DWG	REV
DATE:	13 MARZO 2008	

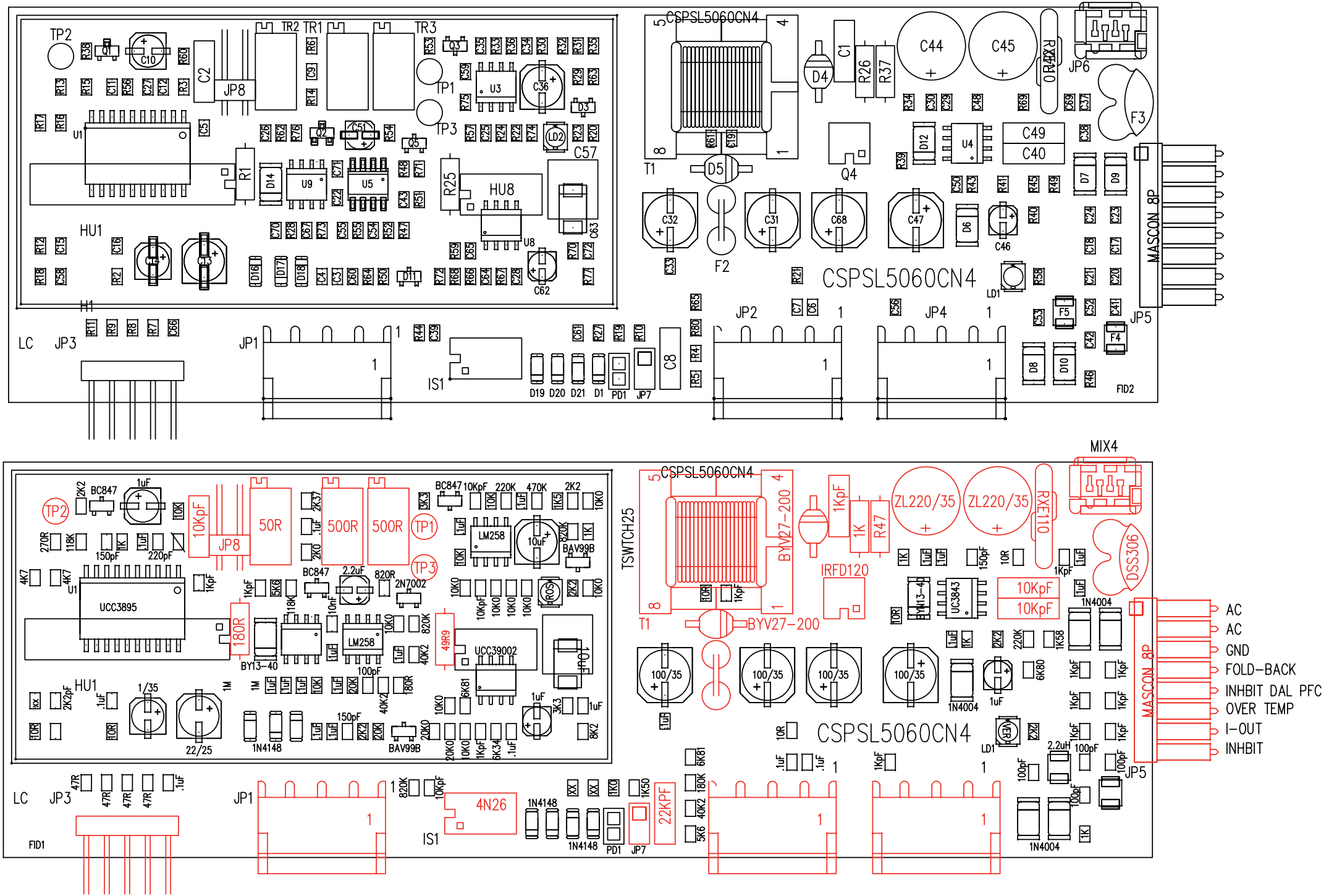
SEZIONE DI POTENZA Revised: Monday, January 28, 2008  
 PSL5060\_PWR.DSN Revision: 2

Item	Quantity	Reference	Part
1	1	CS1	HTP50
2	1	CS2	HTP25
3	2	C1, C2	CP2.2/400
4	2	C3, C4	CD10KpF-1KV
5	3	J1, C5, C19	X
6	9	C6, C7, C8, C9, C10, C11, C12, C13, C27	YXG1000/63
7	9	C14, C15, C16, C17, C18, C28, C29, C30, C31	CP.1uF-63
8	3	C20, C22, C23	CP.1uF-50
9	2	C21, C37	CP1KpF-1K6V
10	2	C24, C26	2K2pF-Y2
11	1	C25	470/400
12	1	C32	100pF-1KV
13	4	C33, C34, C35, C36	CP1KpF-630
14	4	D1, D2, D5, D6	STTH8R06
15	2	D3, D4	HFA50PA60C
16	1	D7	HFA50P60C
17	6	TOR1, TOR2, FIX2, TOR4, FIX8, FIX9	TOR-4
18	2	FIX3, FIX5	TOR-3
19	8	FIX10, FIX11, FIX12, FIX13, FIX14, FIX15, FIX16, FIX17	FIX35
20	1	FS1	20AT
21	1	F1	TMC-PSL1000
22	2	JP1, JP2	MOLEX 5P P3.96
23	3	JP3, JP4, JP6	MOLEX3.96/4M
24	1	JP5	STRIP-6F TORN
25	1	JP8	STRIP-5F TORN
26	1	JP9	KRA3/2
27	1	L1	TPSL5060-1
28	1	L2	TRS5060
29	1	L3	BFV0712
30	1	L4	TPSL5060-2
31	4	Q1, Q2, Q3, Q4	STW45NM50
32	2	R1, R5	330R-5W
33	4	R2, R3, R7, R8	10K-AF
34	1	R4	10K/2W
35	1	R6	560R
36	2	R9, R12	2K2-2W
37	1	R11	1M-2W
38	1	S1	90GR
39	1	TP1	FIRIE
40	1	T1	TSWTCH24

**PSL5060**



# PIANO DI MONTAGGIO PSL5060CNT4

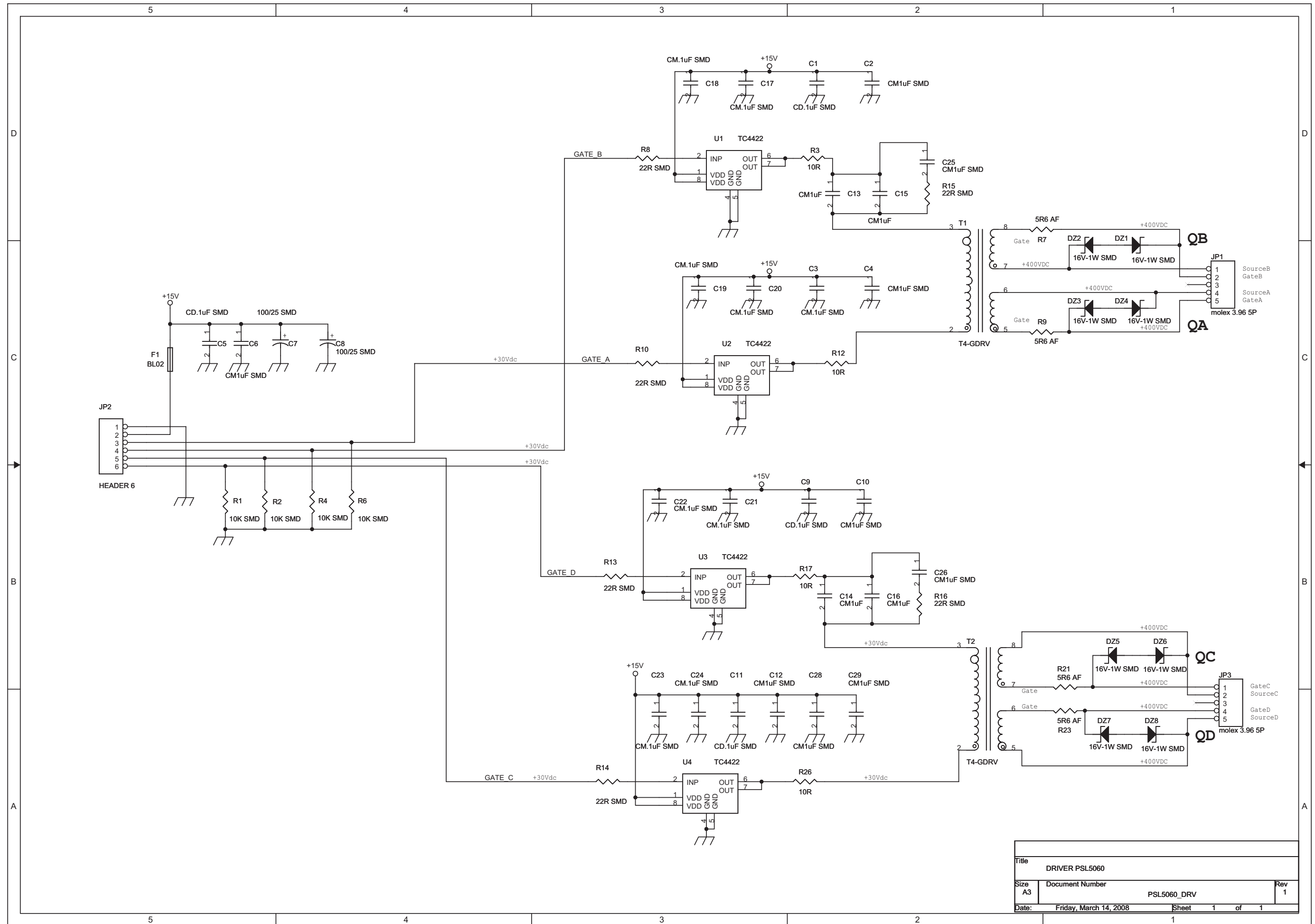


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TITLE: PIANO DI MONTAGGIO CNT PSL5060	
DOCUMENT NUMBER	PSL5060CN4_MNT. DWG REV 1
DATE:	7 maggio 2008

CONTROLLO PSL5060 Revised: Wednesday, May 07, 2008  
PSL5060\_CNT Revision: 3

Item	Quantity	Reference	Part
1	1	C1	CP1KP-100V
2	2	C2, C40	CP10KpF
3	21	C3, C4, C6, C7, C9, C16, C22, C27, C28, C29, C30, C33, C34, C37, C38, C43, C50, C55, C59, C66, C67	.1UF SMD
4	13	C5, C17, C18, C19, C20, C21, C23, C24, C26, C56, C64, C65, C69	1KpF SMD
5	1	C8	CP22KpF
6	2	C10, C62	1/25 SMD
7	1	C11	150pF-5% SMD np0
8	1	C12	220pF-5% SMD np0
9	1	C13	22/25 SMD
10	1	C14	1/35 SMD
11	1	C15	2K2pF SMD-np0
12	4	C25, C35, C39, C71	10KpF SMD
13	4	C31, C32, C47, C68	100/35 SMD
14	1	C36	10/25 SMD
15	4	C41, C42, C52, C53	100PF SMD
16	2	C44, C45	ZL 220/35
17	1	C46	CE1/25 SMD
18	2	C48, C60	150pF SMD
19	1	C49	CP10KP-2.5%
20	1	C51	2.2UF/35 SMD
21	1	C54	CD100PF SMD
22	1	C57	CP1uF/63
23	6	D1, R3, R12, R27, C58, C61	X
24	1	C63	TANT 10/16 SMD
25	2	C70, C72	1uF SMD
26	2	D3, D11	BAV99B SMD
27	2	D4, D5	BY27-200
28	5	D6, D7, D8, D9, D10	1N4004 SMD
29	2	D12, D14	BYM13-40 SMD
30	6	D16, D17, D18, D19, D20, D21	1N4148 SMD
31	1	F2	BL02
32	1	F3	DSS-310
33	1	F4	IND 2.2uH SMD
34	1	F5	IND-2.2
35	1	IS1	4N26
36	3	JP1, JP2, JP4	MOLEX-4
37	1	JP3	STRIP5-90GR-M
38	1	JP5	MASCON 90
39	1	JP6	MICS4
40	1	JP7	JUMPER 2P
41	1	JP8	JUMPER 90GR
42	2	LD1, LD2	TLM310 SMD
43	1	PD1	LUNENO
44	3	Q1, Q2, Q3	BC847 SMD
45	1	Q4	IRFD120
46	1	Q5	2N7002 SMD
47	1	R1	180R
48	6	R2, R18, R21, R39, R61, R69	10R SMD
49	3	R4, R51, R52	40K2 SMD
50	2	R5, R62	5K6 SMD
51	1	R6	2K37 SMD
52	4	R7, R8, R9, R11	47R SMD
53	1	R10	1K5 SMD
54	1	R13	270R
55	1	R14	2K0 SMD
56	2	R15, R76	118K0 SMD
57	2	R16, R17	4K7 SMD
58	6	R19, R34, R43, R46, R56, R63	1K0 SMD
59	13	R20, R22, R24, R31, R33, R35, R48, R57, R59, R60, R66, R74, R75	10K0 SMD
60	6	R23, R32, R38, R41, R58, R64	2K2 SMD
61	1	R25	50R0
62	1	R26	1K

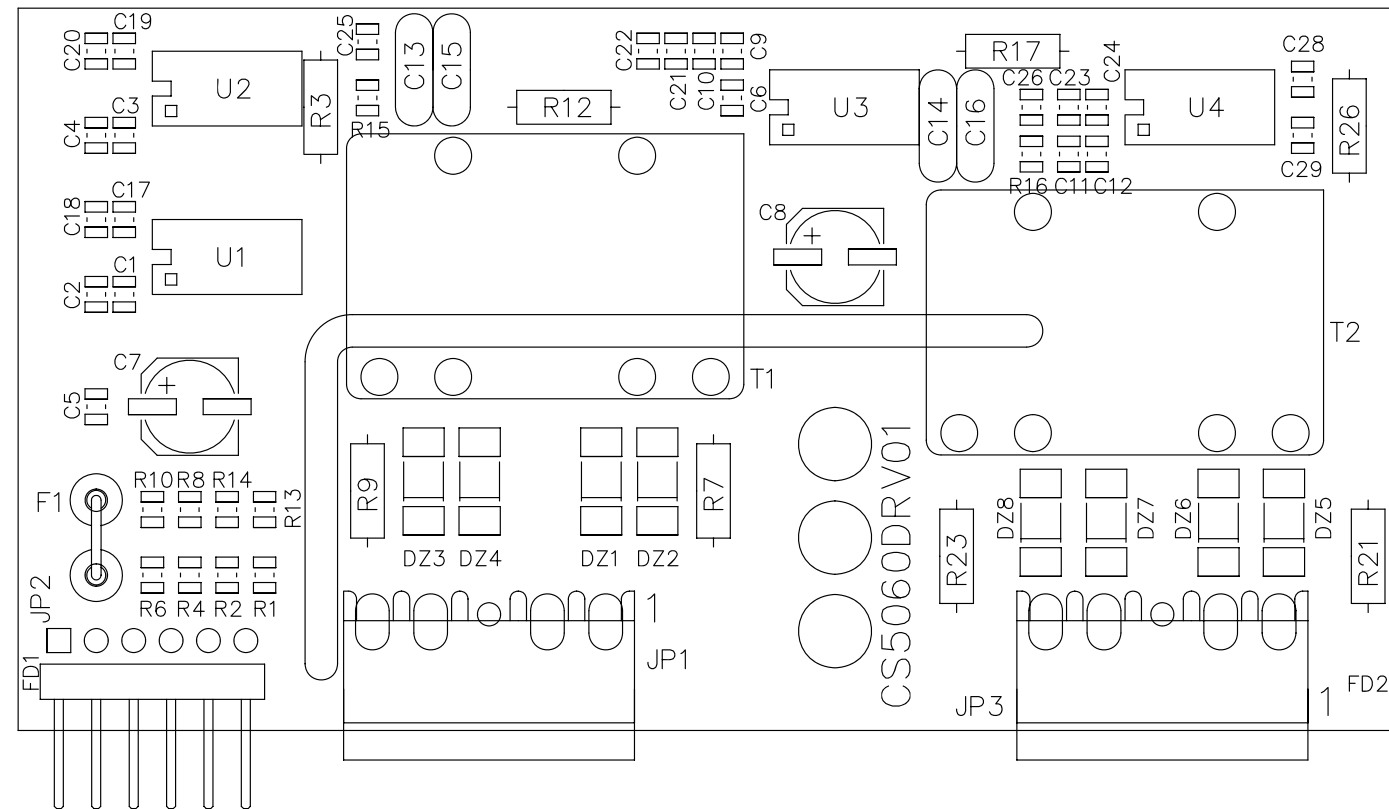
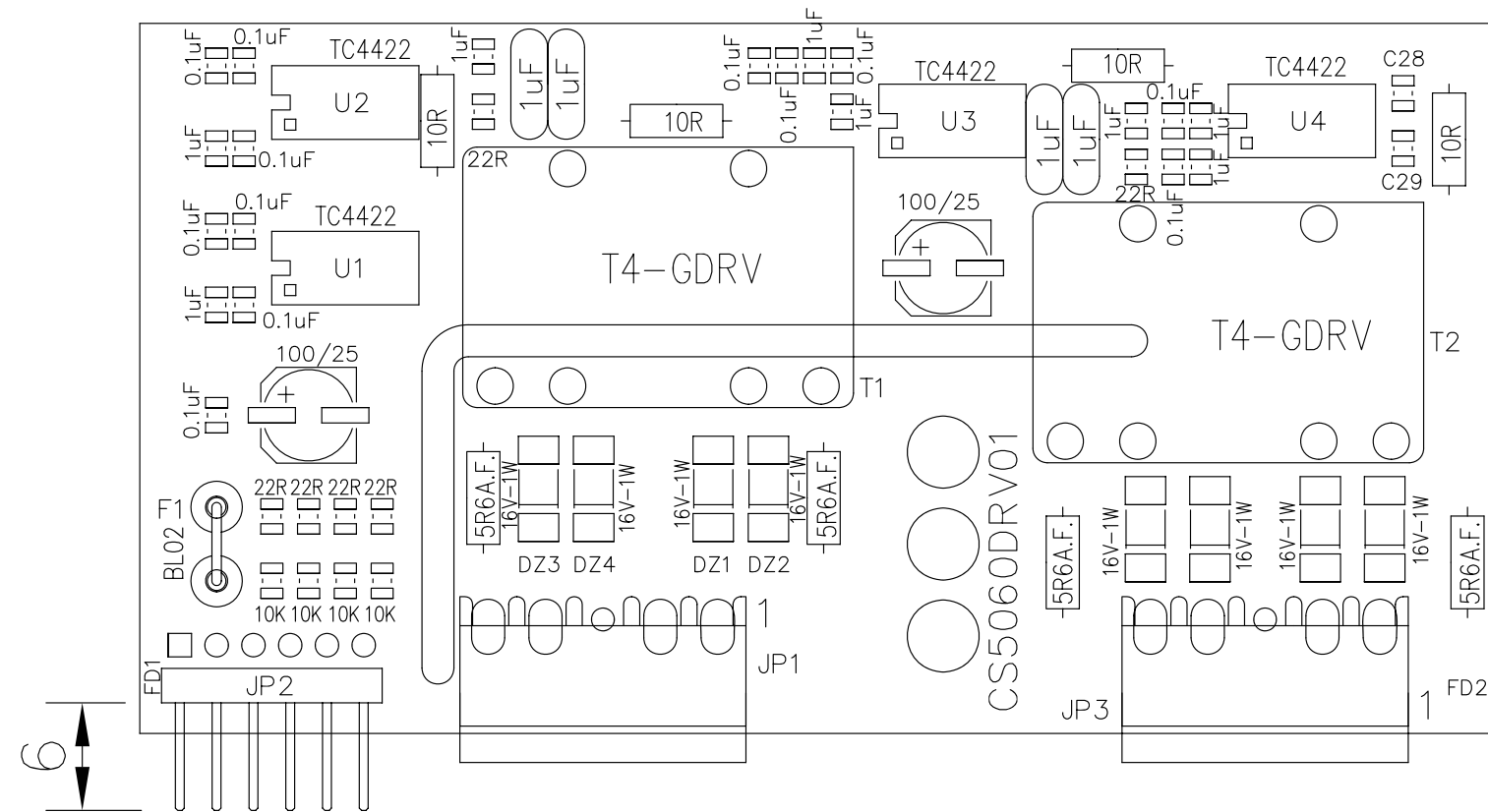
Item	Quantity	Reference	Part
63	2	R28, R73	10K SMD
64	3	R29, R44, R71	820K SMD
65	1	R30	470K SMD
66	2	R36, R45	220K SMD
67	1	R37	R47
68	2	R40, R65	6K81 SMD
69	1	R42	RXE110
70	1	R47	180R SMD
71	1	R49	1K58 SMD
72	4	R50, R55, R68, R72	20K0 SMD
73	2	R53, R70	3K3 SMD
74	1	R54	820R SMD
75	1	R67	6K34
76	1	R77	8K2
77	1	R80	180K SMD
78	3	TP1, TP2, TP3	TP
79	2	TR1, TR3	3106X-500R
80	1	TR2	3106X-50R
81	1	T1	TSWTCH25
82	1	U1	UCC3895 DWG4
83	3	U3, U5, U9	LM258 SMD
84	1	U4	UC3843AN SMD
85	1	U8	UCC39002



Title		
DRIVER PSL5060		
Size	Document Number	Rev
A3	PSL5060_DRV	1
Date:	Friday, March 14, 2008	Sheet 1 of 1



# PIANO DI MONTAGGIO PSL5060DRV01

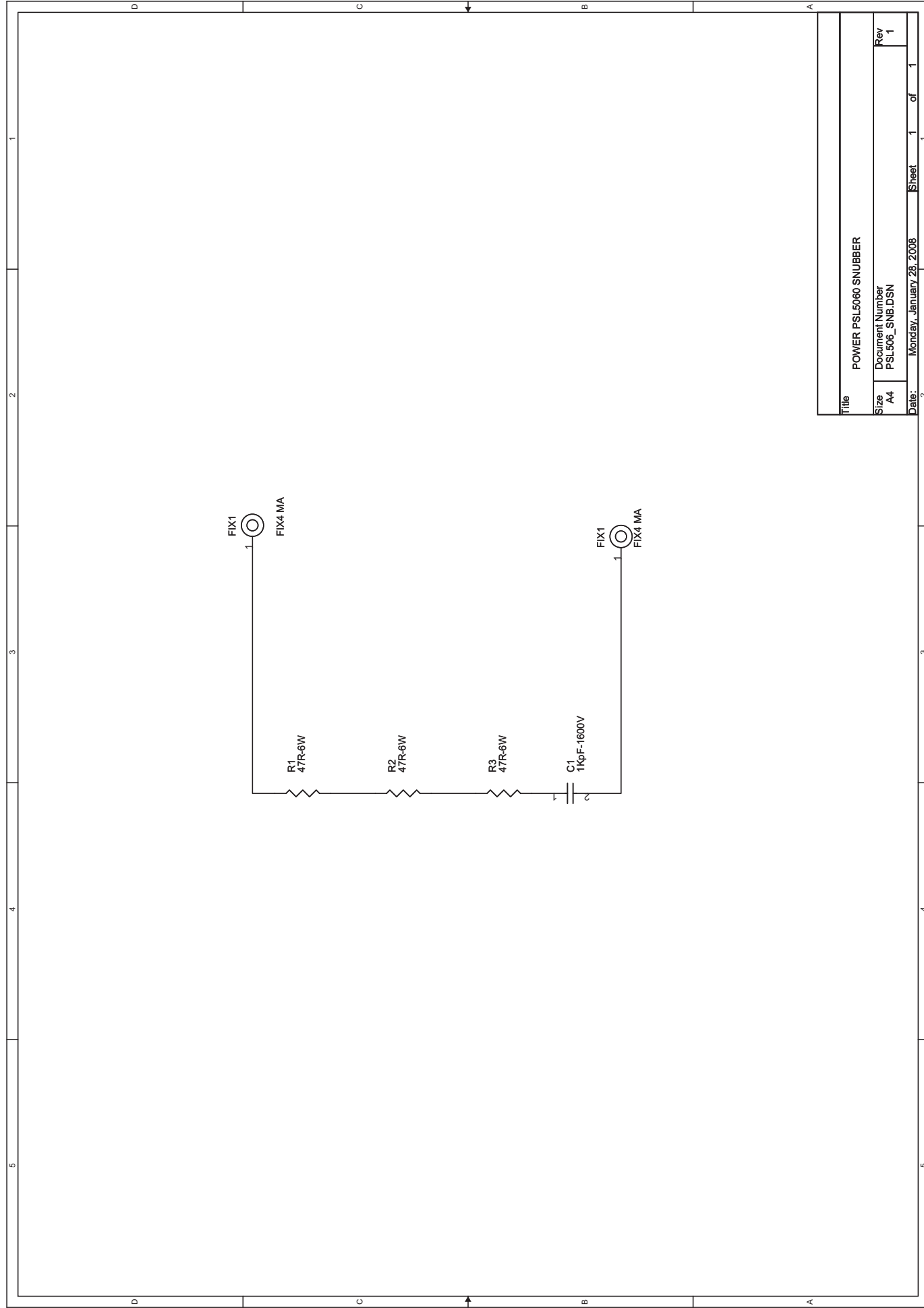


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DOCUMENT NUMBER PSL5060DRV.DWG	REV 1
DATE: 11 APRILE 2008	

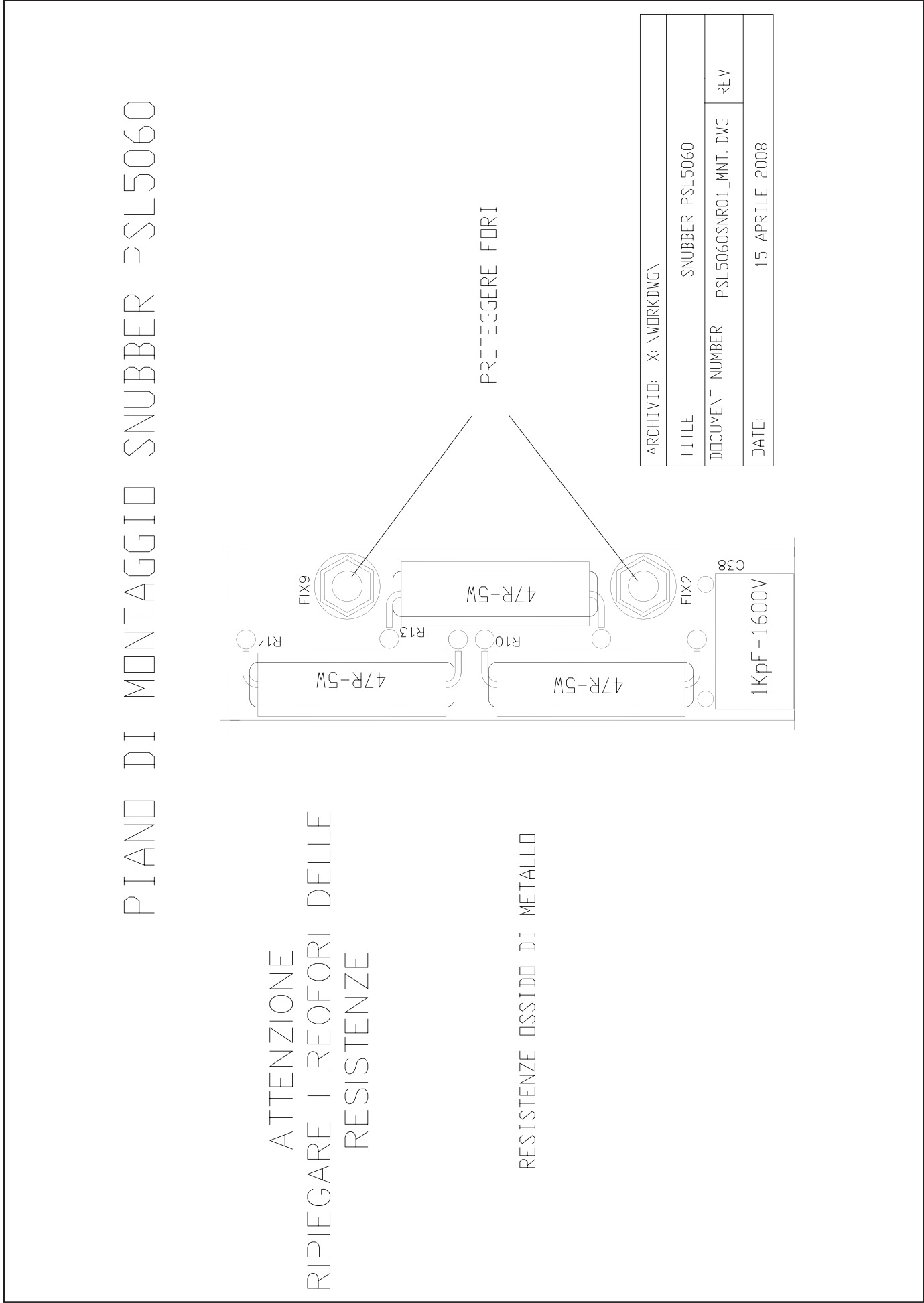
DRIVER PSL5060 Revised: Friday, March 14, 2008  
 PSL5060\_DRV Revision: 1

Item	Quantity	Reference	Part
1	4	C1, C5, C9, C11	CD.1uF SMD
2	9	C2, C4, C6, C10, C12, C25, C26, C28, C29	CM1uF SMD
3	9	C3, C17, C18, C19, C20, C21, C22, C23, C24	CM.1uF SMD
4	2	C7, C8	100/25 SMD
5	4	C13, C14, C15, C16	CM1uF
6	8	DZ1, DZ2, DZ3, DZ4, DZ5, DZ6, DZ7, DZ8	16V-1W SMD
7	1	F1	BL02
8	2	JP1, JP3	molex 3.96 5P
9	1	JP2	HEADER 6
10	4	R1, R2, R4, R6	10K SMD
11	4	R3, R12, R17, R26	10R
12	4	R7, R9, R21, R23	5R6 AF
13	6	R8, R10, R13, R14, R15, R16	22R SMD
14	2	T1, T2	T4-GDRV
15	4	U1, U2, U3, U4	TC4422

PSL5060



Title	POWER PSL5060 SNUBBER
Size	A4
Document Number	PSL506_SNB.DSN
Date:	Monday, January 28, 2008
Sheet	1 of 1
Rev	1



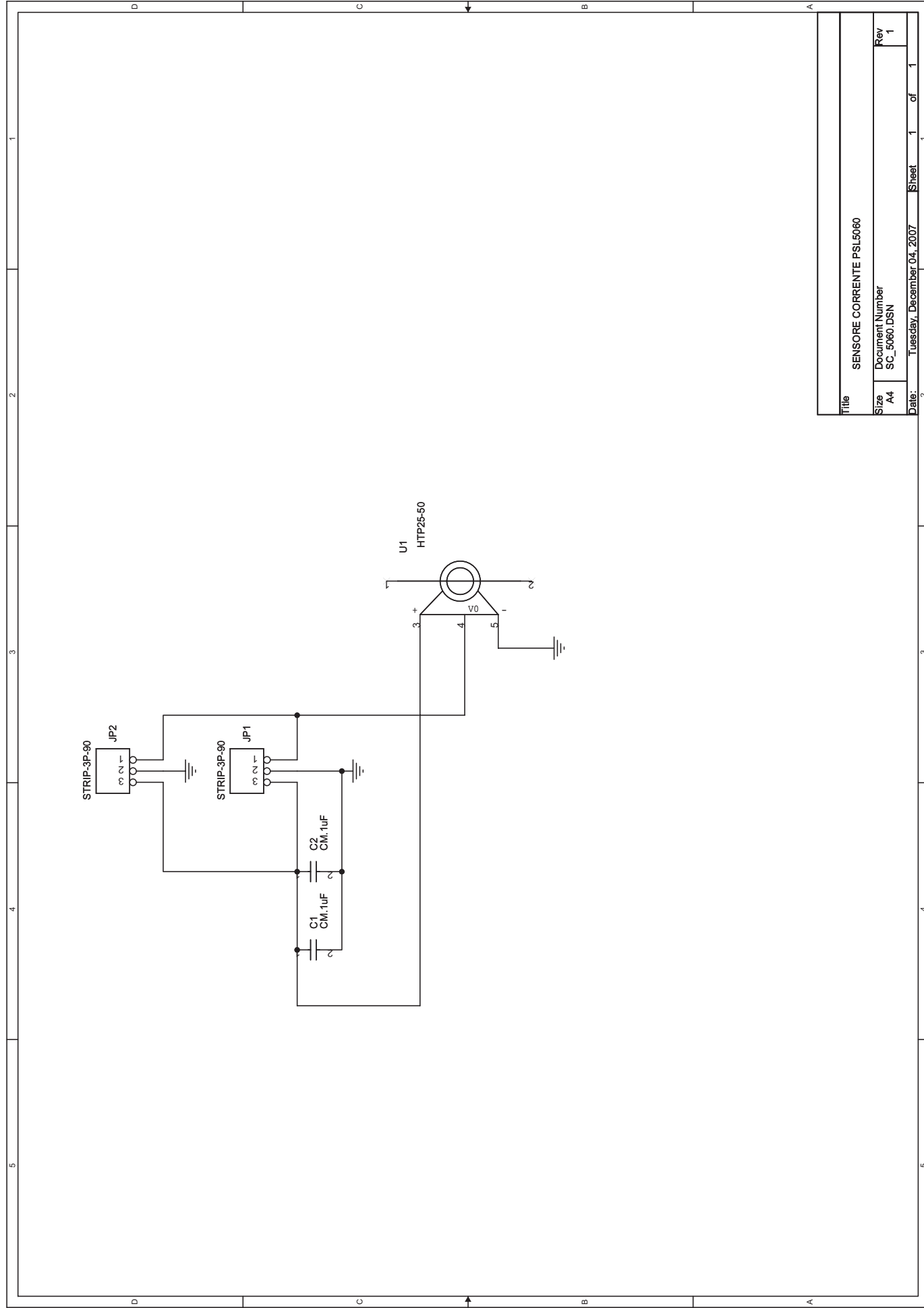
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TITLE	SNUBBER PSL5060
DOCUMENT NUMBER	PSL5060SNR01_MNT. DWG
DATE:	15 APRILE 2008
REV	REV

PSL5060

POWER PSL5060 SNUBBER Revised: Monday, January 28, 2008  
 PSL506\_SNB.DSN Revision: 1

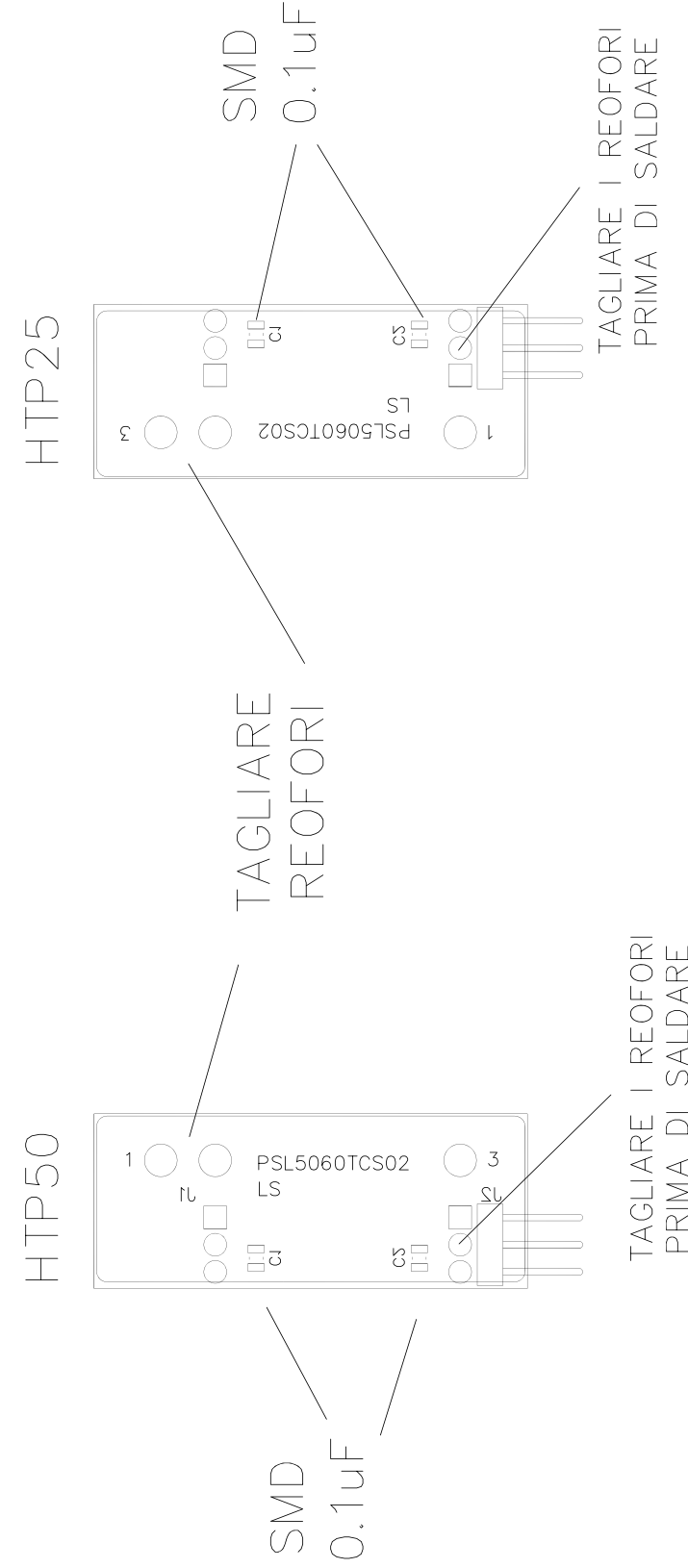
Item	Quantity	Reference	Part
1	1	C1	1KpF-1600V
2	1	FIX1	FIX4 MA
3	3	R1, R2, R3	47R-6W

PSL5060



Title	SENSORE CORRENTE PSL5060
Size	A4
Document Number	SC_5060.DSN
Date:	Tuesday, December 04, 2007
Sheet	1 of 1
Rev	1

SENSORE DI CORRENTE PSL5060



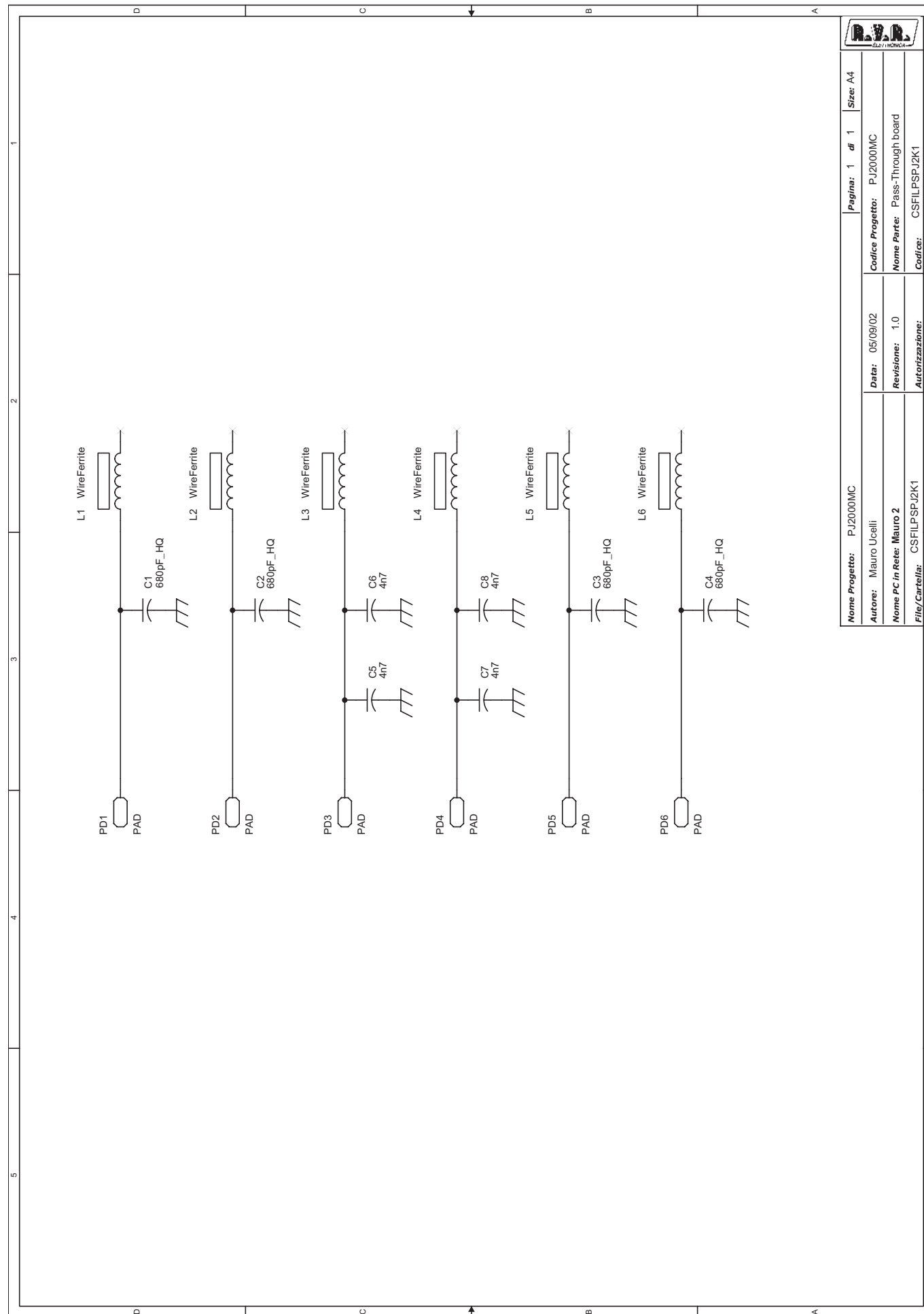
NOTA:  
 IL CS DEL SENSORE DI CORRENTE VIENE  
 RUOTATO DI 180 GRADI PER ADATTARSI  
 ALLA PARTE D'INGRESSO O D'USCITA.

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TITLE	SENSORE DI CORRENTE PSL5060
DOCUMENT NUMBER	PSL5060PWR_ASSEMBL.DWG REV
DATE:	15 APRILE 2008

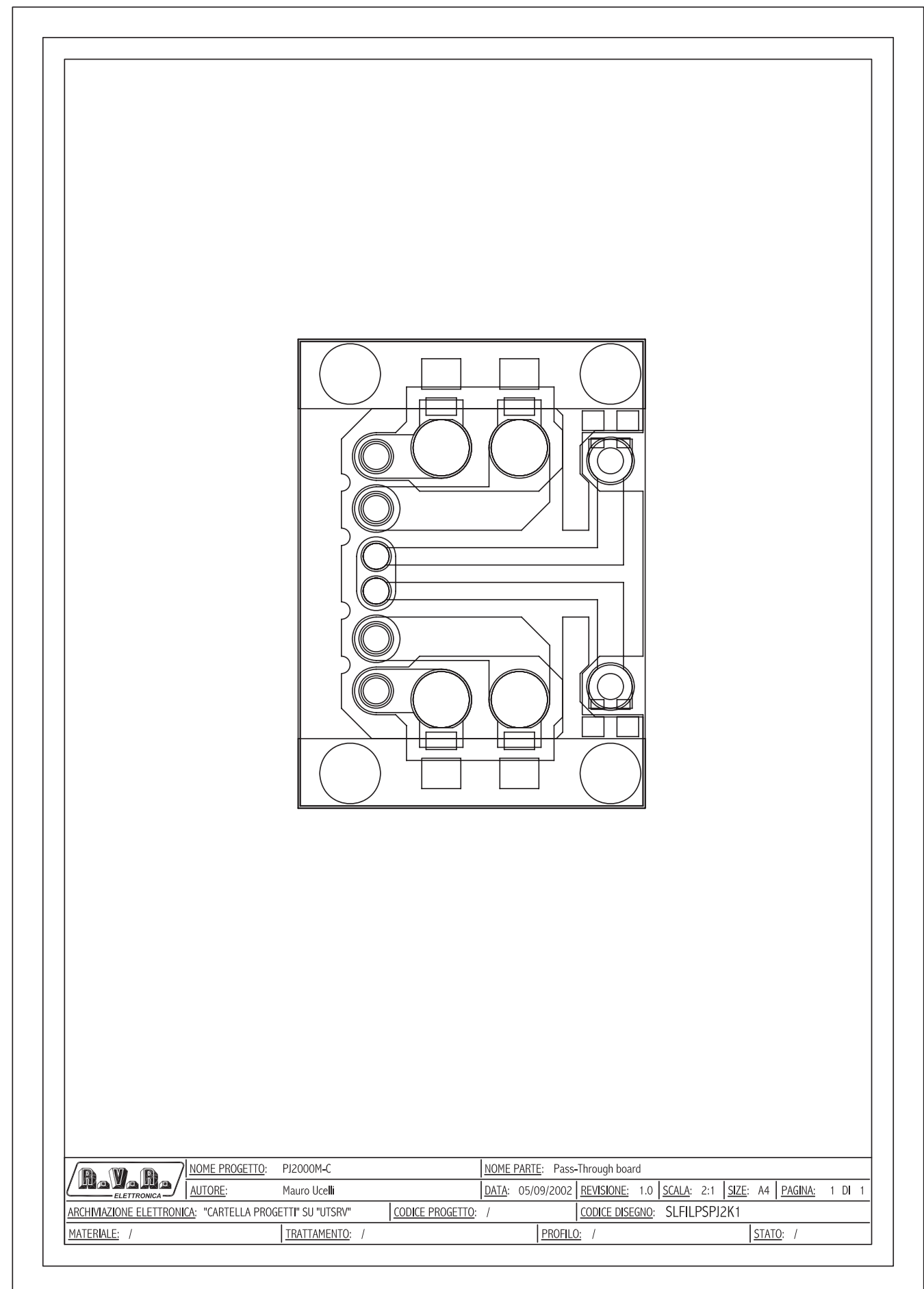
PSL5060

SENSORE CORRENTE PSL5060 Revised: Tuesday, December 04, 2007  
 SC\_5060.DSN Revision: 1

Item	Quantity	Reference	Part
1	2	C1, C2	CM.1uF
2	2	JP1, JP2	STRIP-3P-90
3	1	U1	HTP25-50



Nome Progetto:	PJ2000MC	Pagina:	1	di	1	Size:	A4
Autore:	Mauro Ucelli	Data:	05/09/02	Codice Progetto:	PJ2000MC		
Nome PC in Rete:	Mauro 2	Revisione:	1.0	Nome Parte:	Pass-Through board		
File/Carrella:	CSFILPSPJ2K1	Autorizzazione:		Codice:	CSFILPSPJ2K1		

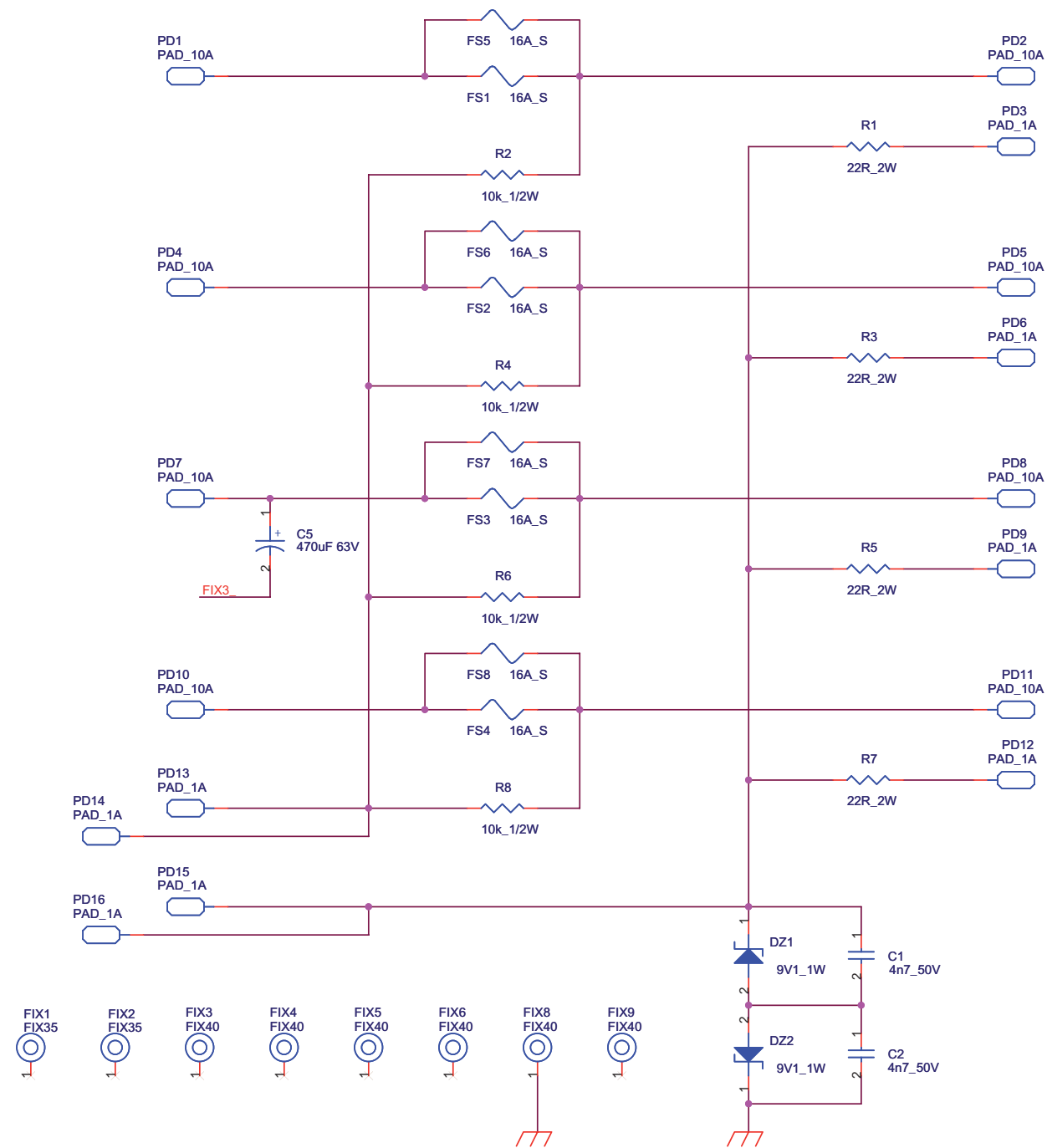


	NOME PROGETTO:	PJ2000M-C	NOME PARTE:		Pass-Through board							
	AUTORE:	Mauro Ucelli	DATA:	05/09/2002	REVISIONE:	1.0	SCALA:	2:1	SIZE:	A4	PAGINA:	1 DI 1
ARCHIVIAZIONE ELETTRONICA: "CARTELLA PROGETTI" SU "UTSRV"			CODICE PROGETTO:	/	CODICE DISEGNO:		SLFILPSPJ2K1					
MATERIALE:			/	TRATTAMENTO:	/	PROFILO:	/	STATO:				/

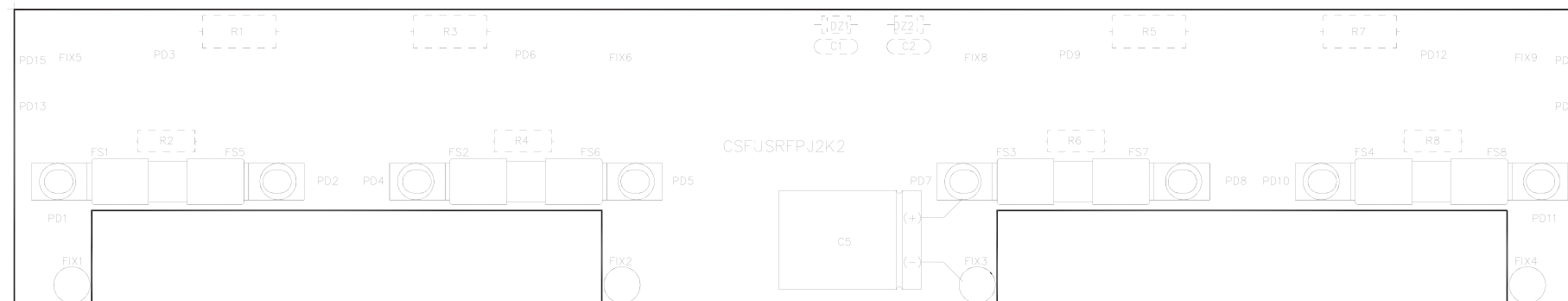
Pass-Through board  
SLFILPSPJ2K1  
Revision: 1.0  
PJ2000MC  
Mauro Ucelli  
05/09/2002

Item	Quantity	Reference	Part	Description
1	4	C1,C2,C3,C4	680pF_HQ	;Condensatore Chip HQ
2	4	C5,C6,C7,C8	4n7	;Condensatore SMD size 0805
3	6	L1,L2,L3,L4, L5,L6	WireFerrite	;Filo di rame arg. diam. 1mm lung. 20mm con tubetto in Ferrite





Nome Progetto: PJ4000M-C		Pagina: 1 di 1	Size: A3
Autore: Mauro Ucelli	Data: 17/09/2008	Codice Progetto: 046	
Nome PC In Rete: /	Revisione: 1.1	Nome Parte: Fuse board RF section	
File/Cartella: /	Autorizzazione:	Codice: SLFUSRFPJ4K1	

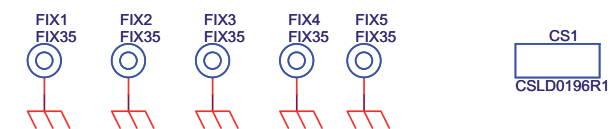
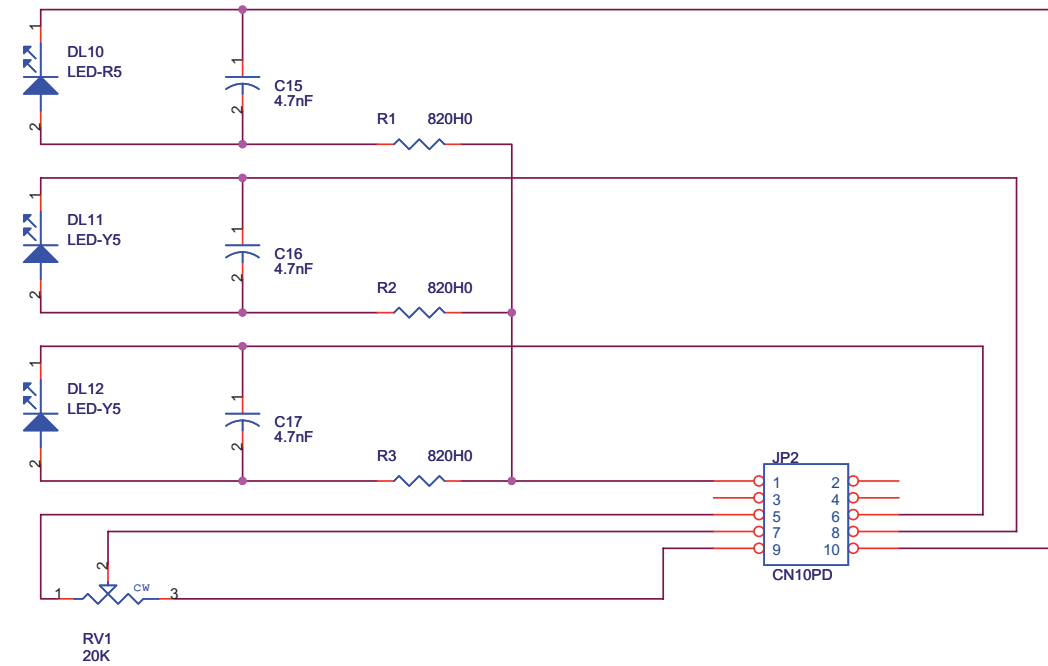
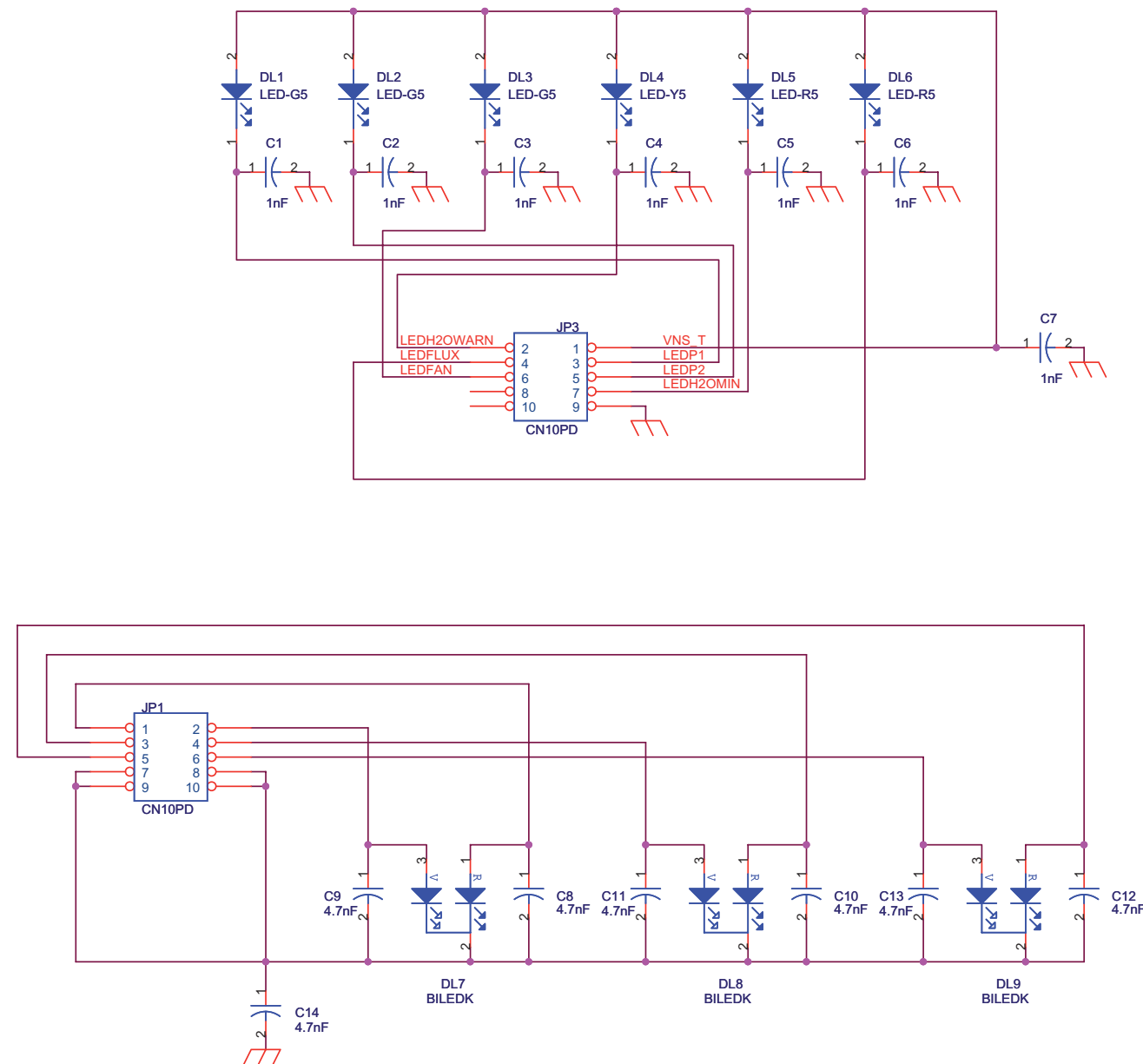


	NOME PROGETTO: PJ4000M-C	NOME PARTE: Fuse board RF section			
	AUTORE: G. Poluzzi	DATA: 17/09/2008	REVISIONE: 1.1	SCALA: 1:1	SIZE: A3
ARCHIVIAZIONE ELETTRONICA: "CARTELLA PROGETTI" SU "UTSRV"		CODICE PROGETTO: /	CODICE DISEGNO: SLFUSRFPJ4K1		
MATERIALE: FR4	TRATTAMENTO: Mater. 1.6mm	PROFILO: RAME 35u	STATO: ESECUTIVO		

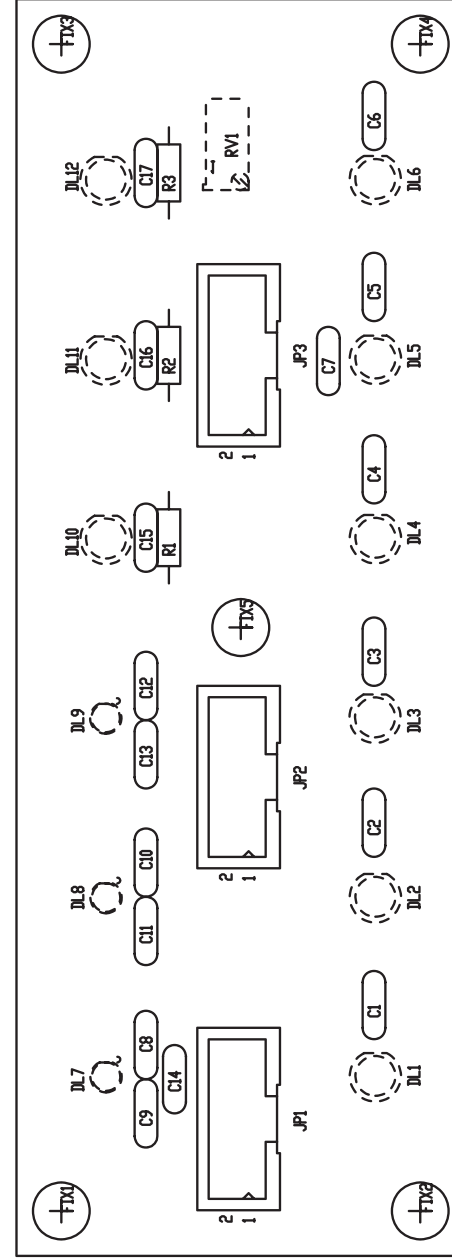
Fuse board RF section  
SLFUSRFPJ4K1  
Revision: 1.1  
046  
PJ4000M-C  
Mauro Ucelli  
17/09/2008


Item	Quantity	Reference	Part	Description	RVR Code
1	2	C2,C1	4n7_50V	Condensatore 4n7 100V	CKM472KC600P
2	2	DZ2,DZ1	9V1_1W	Diodo Zener 9V1 1W	DIZ9V11W
3	2	FIX1,FIX2	FIX35	Non è un componente	
4	6	FIX3,FIX4,FIX5,FIX6,FIX8, FIX9	FIX40	Non è un componente	
5	8	FS1,FS2,FS3,FS4,FS5,FS6,FS7,FS8	16A_S	Fusibile 16A con fissaggio su colonette	FUSGSAEXRP15
6	8	PD1,PD2,PD4,PD5,PD7,PD8, PD10,PD11	PAD_10A	Non è un componente	
7	8	PD3,PD6,PD9,PD12,PD13, PD14,PD15,PD16	PAD_1A	Non è un componente	
8	4	R1,R3,R5,R7	22R_2W	Resistenza 22 Ohm 2W	RSM002J0022H
9	4	R2,R4,R6,R8	10k_1/2W	Resistenza 10k 1/2W	RSC1/2JK0010
10	1	CS1	CSFUSRFPJ2K2	Circuito stampato	CSFUSRFPJ2K2
11	1	C5	470uF 63V	; Condensatore elettrol. 470uF 63V	

POMPA 1 POMPA 2 VENTOLA H2O WARN H2O LOW FLUSSO



Project Name: BARRACUDA		Page: 1 of 1	Size: A3
Designer: Tommasi A.	Date: Thursday, December 04, 2008	Project Code: RVR154	
File Location: \	Revision: 1.0	Description: Scheda led	
Folder/File: /	Approval:	Part No.: SL154LD1001	



	NOME PROGETTO: BARRACUDA	NOME PARTE: SCHEDA LED
AUTORE: A. TOMMASI	DATA: 17/10/2008	REVISIONE: 1.0
ARCHIVIAZIONE ELETTRONICA: "CARTELLA RILASCIATI" SU "UTSRV"	CODICE PROGETTO: 154	CODICE DISEGNO: SL154LD1001
MATERIALE: <>	TRATTAMENTO: <>	PROFILO: <>
		STATO: ESECUTIVO
		SIZE: A4
		PAGINA: 1 DI 1

Scheda led Revised: 04/12/2008  
SL154LD1001 Revision: 1.0  
BARRACUDA  
RVR154  
Tommasi A.

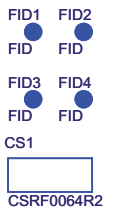
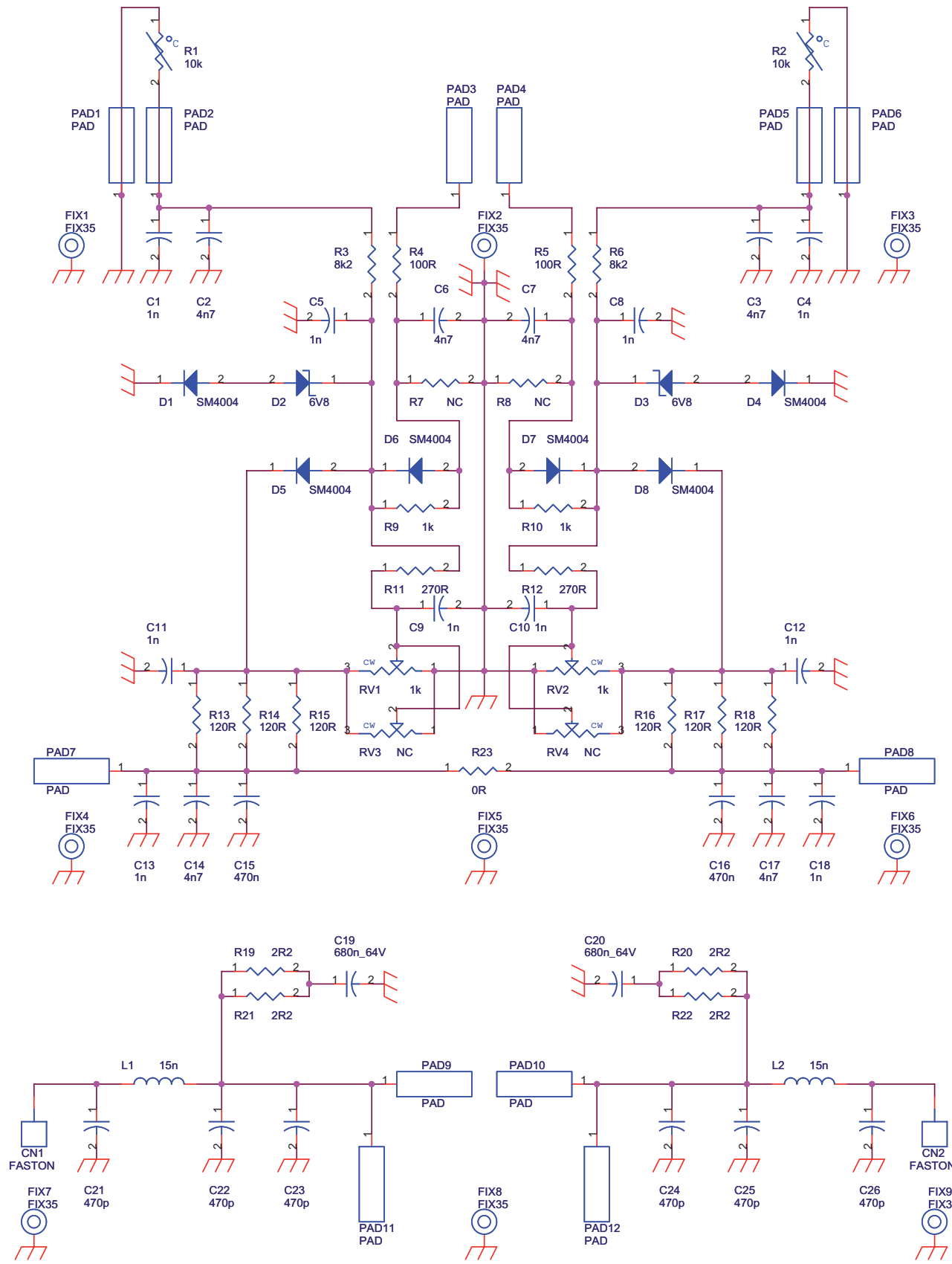
Item	Quantity	Reference	Part	Description	Code
1	1	CS1	CSLD0196R1	Circuito stampato	CSLD0196R1
2	7	C1,C2,C3,C4,C5,C6,C7	1nF	Cond. ceramico p 5mm	CKM102KC600P
3	10	C8,C9,C10,C11,C12,C13, C14,C15,C16,C17	4.7nF	Cond. ceramico p 5mm	CKM472KC600P
4	3	DL1,DL2,DL3	LED-G5	LED Verde dia. 5mm	LEDV05
5	3	DL5,DL6,DL10	LED-R5	LED Rosso dia. 5mm	LEDR05
6	3	DL7,DL8,DL9	BILEDK	Doppio led V-R 5mm Catodo com.	LEDB05
7	3	DL4, DL11,DL12	LED-Y5	LED Giallo dia. 5mm	LEDG05
8	5	FIX1,FIX2,FIX3,FIX4,FIX5	FIX35	Foro fissaggio 3.5mm	
9	3	JP1,JP2,JP3	CN10PD	Connettore 10 poli Flat cs	CNTMCSFC10P
10	1	RV1	20K	Trimmer Rg V 3296W	RVT3296WK020
11	3	R1,R2,R3	820H0	Res. 1/4W 1%	RSM1/4F0820H



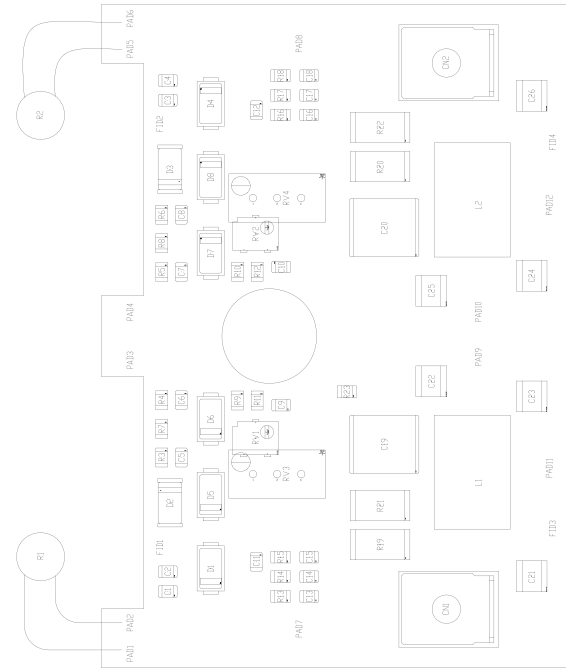








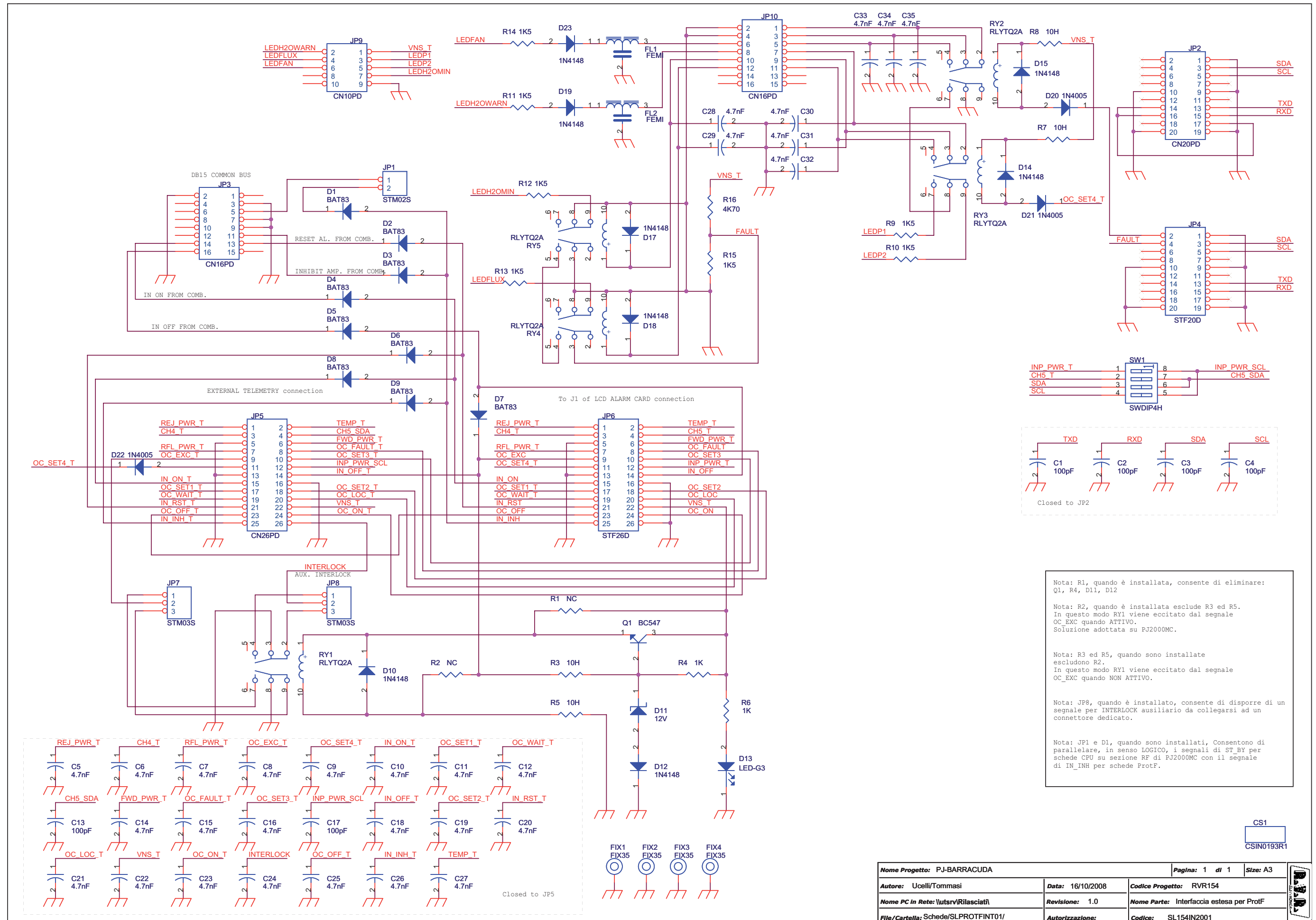
Nome Progetto: PJ4000M-C		Pagina: 1 di 1	Size: A3
Autore: Mauro Ucelli	Data: 11/07/06	Codice Progetto: 046	
Nome PC In Rete: \UTSR\VR\lasciatl	Revisione: 1.1	Nome Parte: Bias Board Pallet 500W	
File/Cartella: \	Autorizzazione:	Codice: SL046BI1001	

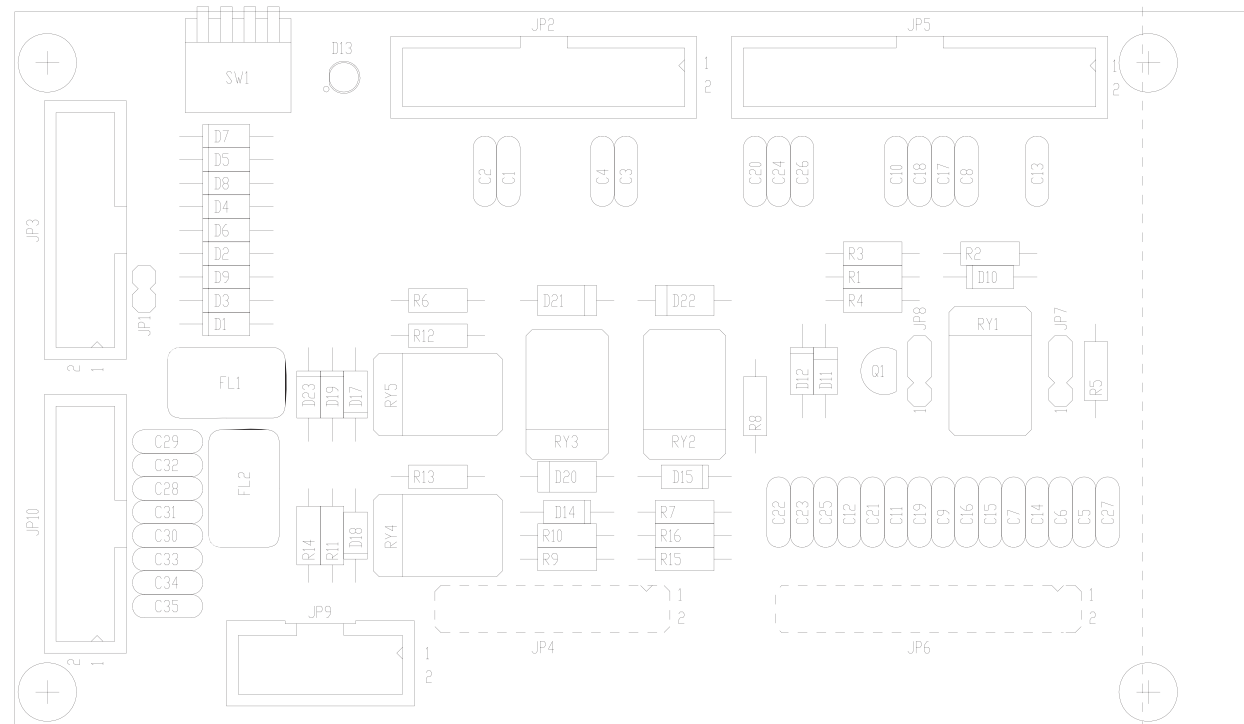


	NOME PROGETTO: PI4000M-C	NOME PARTE: SCHEDA BIAS PALLET 500W
	AUTORE: M. UCCELLI	DATA: 12/06/2006
ARCHIVIAZIONE ELETTRONICA: "CARTELLA RILASCIATI" SU "UTSRV"	CODICE PROGETTO: 046	REVISIONE: 1.0
MATERIALE: < >	TRATTAMENTO: < >	SCALA: 1:1
	PROFILO: < >	SIZE: A4
	STATO: ESECUTIVO	PAGINA: 1 DI 1
		CODICE DISEGNO: SL046BI1001

Bias Board Pallet 500W  
SL046BI1001  
Revision: 1.1  
PJ4000M-C  
046  
Mauro Ucelli  
11/07/06

Item	Quantity	Reference	Part	Description	Code1
1	2	CN1,CN2	FASTON		
2	1	CS1	CSRF0064R2	Circuito stampato	CS
3	10	C1,C4,C5,C8,C9,C10,C11, C12,C13,C18	1n	Cond. SMD 0805 COG	CCC085102GCC
4	6	C2,C3,C6,C7,C14,C17	4n7	Cond. SMD 0805	CCC085472KXC
5	2	C15,C16	470n	Cond. SMD 0805	CCC085474KXB
6	2	C19,C20	680n_64V	Cond. SMD 2824	CPE684K101O
7	6	C21,C22,C23,C24,C25,C26	470p	Cond. SMD 1212 HQ	CHQ471JA201
8	6	D1,D4,D5,D6,D7,D8	SM4004	Diodo SMD cont. SMA	
9	2	D2,D3	6V8	SMD MELF Zener Diode	
10	4	FID1,FID2,FID3,FID4	FID	Fiducial CS	
11	9	FIX1,FIX2,FIX3,FIX4,FIX5, FIX6,FIX7,FIX8,FIX9	FIX35	Foro fissaggio 3.5mm	
12	2	L1,L2	15n	Ponticello di filo D.1mm lungo 20mm	
13	12	PAD1,PAD2,PAD3,PAD4,PAD5, PAD6,PAD7,PAD8,PAD9, PAD10,PAD11,PAD12	PAD		
14	2	RV1,RV2	1k	Trimm. multi SMD PVG5 Murata	RV
15	2	RV3,RV4	NC	Trimmer Rg V 3296W	
16	2	R1,R2	10k	NTC 2 wires	RNTC005K103K
17	2	R3,R6	8k2	Res. SMD 0805	RCH085F008K2
18	2	R4,R5	100R	Res. SMD 0805	RCH085F0100H
19	2	R7,R8	NC	Res. SMD 0805	
20	2	R9,R10	1k	Res. SMD 0805	RCH085F0001K
21	2	R11,R12	270R	Res. SMD 0805	RCH085F0270H
22	6	R13,R14,R15,R16,R17,R18	120R	Res. SMD 0805	RCH085F0120H
23	4	R19,R20,R21,R22	2R2	Res. SMD 2512	RCH252J002H2
24	1	R23	0R	Res. SMD 0805	RCH085F0000H





	NOME PROGETTO: BARRACUDA	NOME PARTE: INTERF. ESTESA PROF
	AUTORE: A. TOMMASI	DATA: 16/10/2008
ARCHIVIAZIONE ELETTRONICA: "CARTELLA RILASCIATI" SU "UTSRV"	REVISIONE: 1.0	SCALA: 1:1
MATERIALE: <>	CODICE PROGETTO: 154	SIZE: A4
TRATTAMENTO: <>	CODICE DISEGNO: SL154IN2001	PAGINA: 1 DI 1
	PROFILO: <>	STATO: ESECUTIVO

Interfaccia estesa per ProtF Revised: 16/10/2008  
SL154IN2001 Revision: 1.0  
PJ-BARRACUDA  
RVR154  
Ucelli/Tommasi

Item	Quantity	Reference	Part	Description	Code
1	1	CS1	CSIN0193R1	Circuito stampato	CSIN0193R1
2	6	C1,C2,C3,C4,C13,C17	100pF	Cond. ceramico p 5mm	CKM101KC101C
3	29	C5,C6,C7,C8,C9,C10,C11, C12,C14,C15,C16,C18,C19, C20,C21,C22,C23,C24,C25, C26,C27,C28,C29,C30,C31, C32,C33,C34,C35	4.7nF	Cond. ceramico p 5mm	CKM472KC600P
4	9	D1,D2,D3,D4,D5,D6,D7,D8, D9	BAT83	Diodi Hot carrier DO35	DHCBAT83
5	8	D10,D12,D14,D15,D17,D18, D19,D23	1N4148	Diodo in vetro DO35	DIS1N4148
6	1	D11	12V	1/4W Zener Diode	DIZ12V1/2W
7	1	D13	LED-G3	LEDVERDE dia. 3mm a battuta	LEDV03
8	3	D20,D21,D22	1N4005	Diodo plastico DO41	DIS1N4007
9	4	FIX1, FIX2, FIX3, FIX4	FIX35	Foro fissaggio 3.5mm	
10	2	FL1, FL2	FEMI	Filtro EMI Murata DSS310	FEA55Y223500
11	1	JP1	STM02S	Strip maschio 2 pin	CNTSTM40SDA <b>Nota 1</b>
12	1	JP2	CN20PD	Connettore 20 poli Flat cs	CNTMCS20A
13	2	JP3, JP10	CN16PD	Conn.M.C.S.Dritto 16P alette	CNTMCS16A
14	1	JP4	STF20D	Strip femmina 10+10 pin	CNTSTF10DDB
15	1	JP5	CN26PD	Connettore 26 poli Flat cs	CNTMCS26A
16	1	JP6	STF26D	Strip femmina 13+13 pin	CNTSTF13DDB
17	2	JP7, JP8	STM03S	Strip maschio 3 pin	CNTSTM40SDA <b>Nota 1</b>
18	1	JP9	CN10PD	Connettore 10 poli Flat cs	CNTMCS10A
19	1	Q1	BC547	Trans. NPN TO92	TRNBC547
20	5	RY1,RY2,RY3,RY4,RY5	RLYTQ2A	Rele' TQ2 12V	RLD2V12V05AM
21	2	R1,R2	NC	Res. 1/4W	
22	4	R3,R5,R7,R8	10H	Res. 1/4W	RSM1/4F0010H
23	2	R4,R6	1K	Res. 1/4W	RSM1/4F0001K
24	7	R9,R10,R11,R12,R13,R14, R15	1K5	Res. 1/4W	RSM1/4F001K5
25	1	R16	4K70	Res. 1/4W	RSM1/4F004K7
26	1	SW1	SWDIP4H	Dip switch 4 vie vert.	DSW4VV

**Nota 1** Striscia strip maschio da spezzare

**Nota 2** [Taglio pista \(vedi foto TaglioPistaSL154IN2001.jpg\)](#)