R.V.R. ELETTRONICA

PJ3500M-C & PJ5000U-K

TECHNICAL ANNEX

VOLUME2

R.V.R. ELETTRONICA

Member of CISQ Federation
RINA
ISO 9001:2000
Certified Quality System

BROADCAST EQUIPMENT

Manufactured by R.V.R ELETTRONICA S.p.A. Italy

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

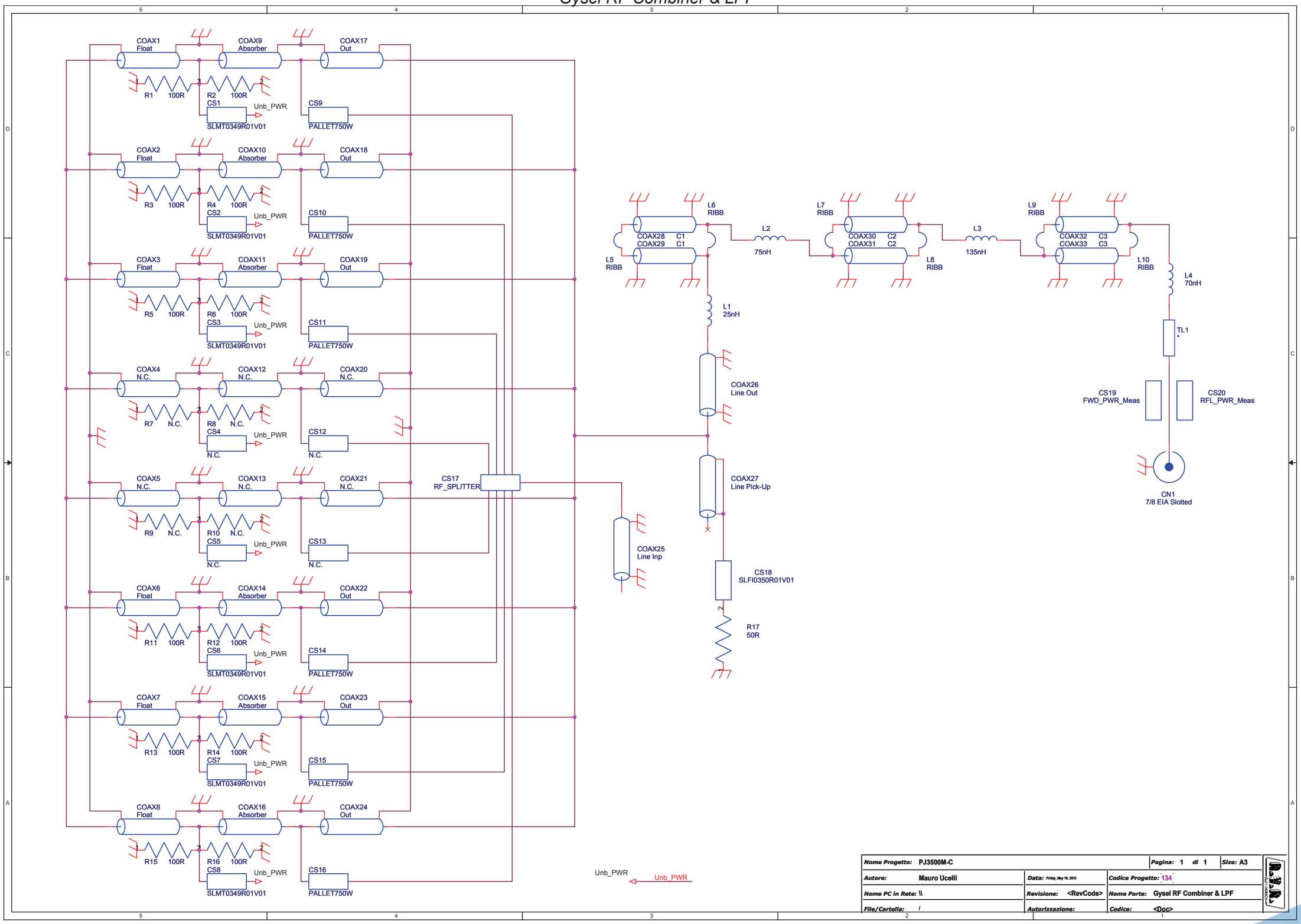
Questa parte del manuale contiene i dettagli tecnici riguardanti la costruzione delle singole schede componenti il PJ3500M-C & PJ5000U-K. L'appendice è composta dalle seguenti sezioni:

This part of the manual contains the technical details about the different Cards of the PJ3500M-C & PJ5000U-K. This appendix is composed of the following sections:

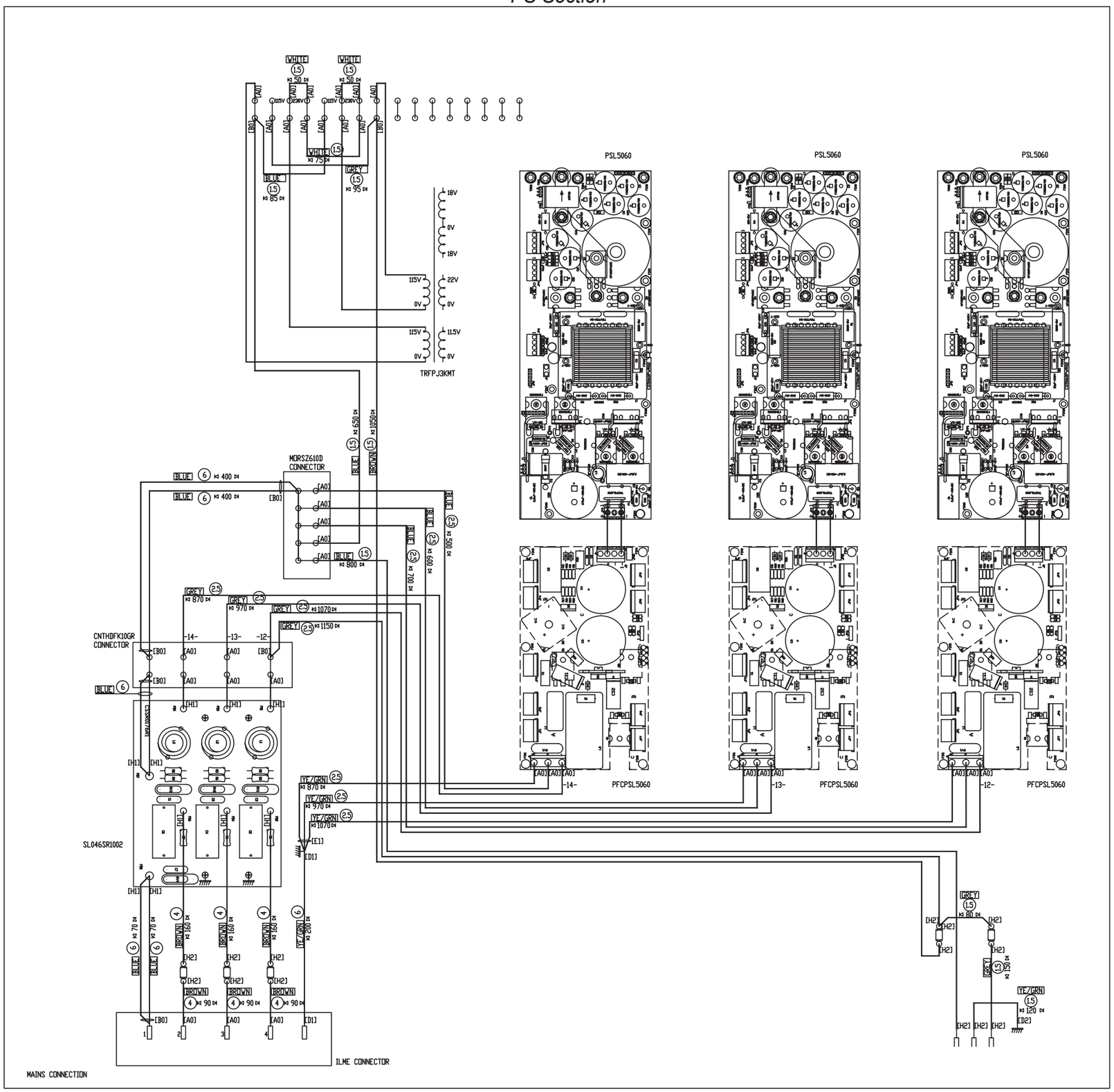
Document History

Date	Version	Reason	Code	Editor
12/04/2013	1.0	First Release	/	J.H. Berti
10/05/2013	1.1	Wiring Diagrams Upgrade	/	J.H. Berti

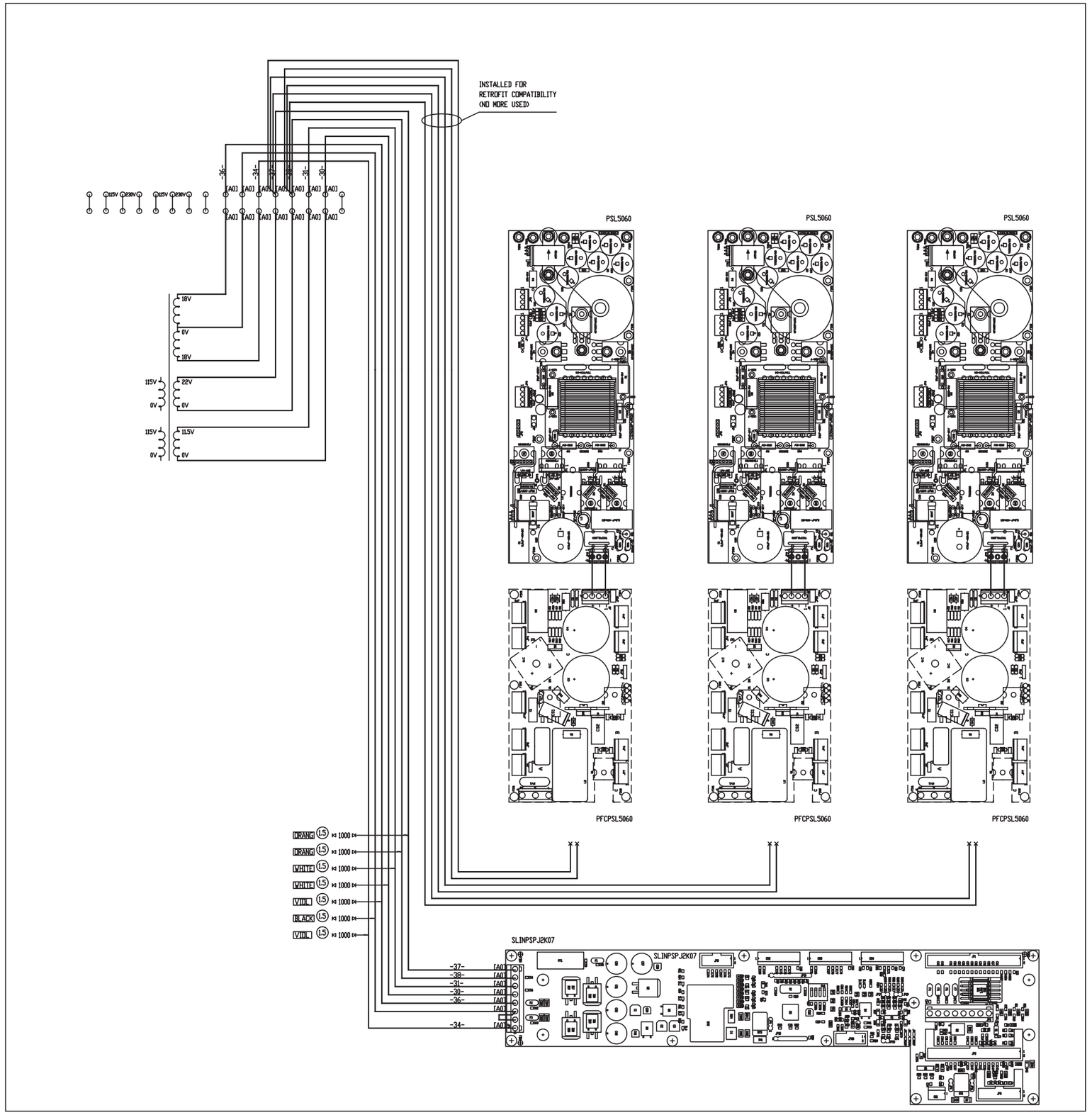
Gysel RF Combiner & LPF



PS Section

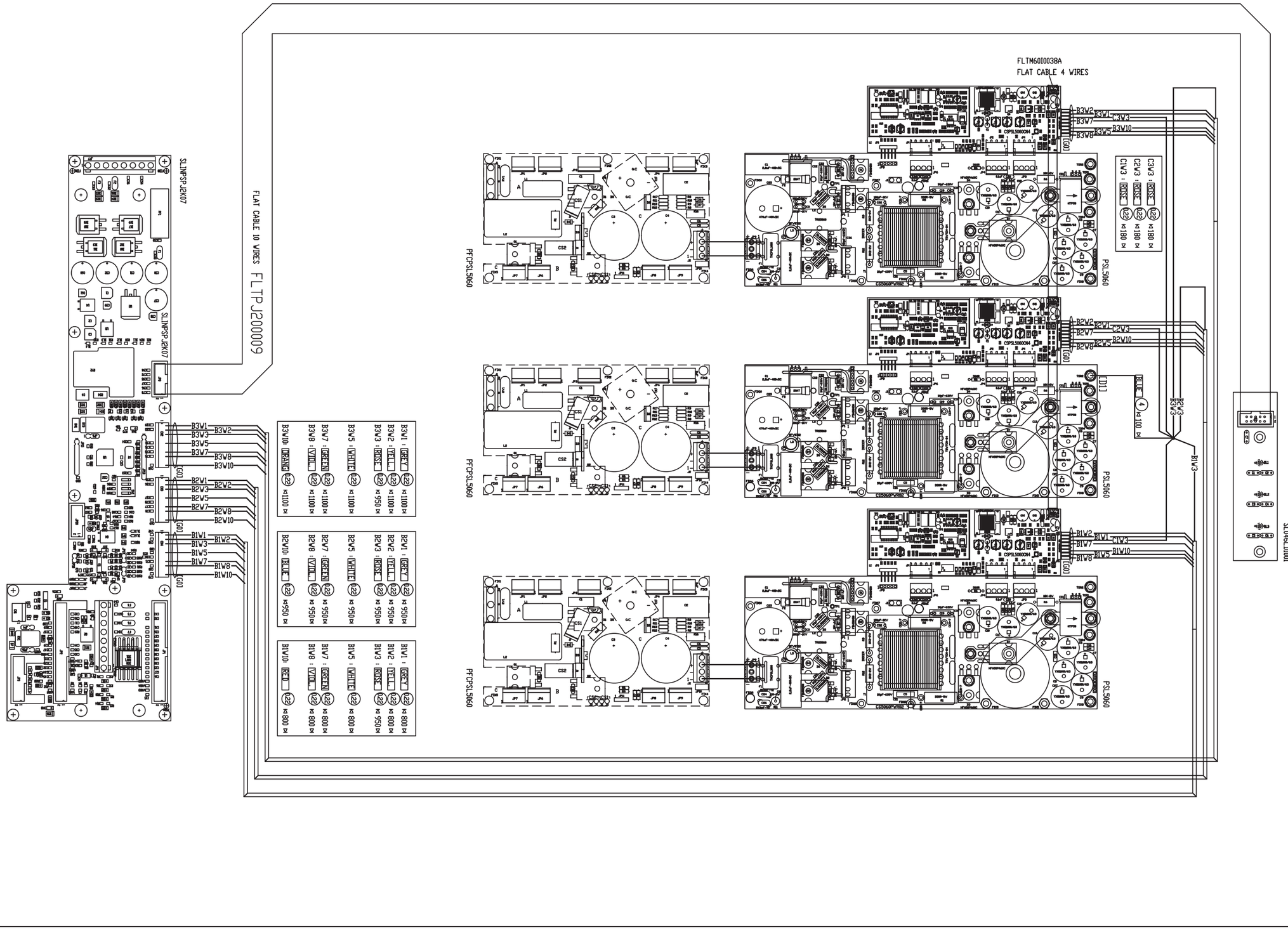

PSL5060
PSL5060
PSL5060
PFCPSL5060
PFCPSL5060
PFCPSL5060
TRFPJ3KMT
MDRSZ610D
CONNECTOR
CNTHDFK10GR
CONNECTOR
SL046SR1002
ILME CONNECTOR
MAINS CONNECTION

PS Section

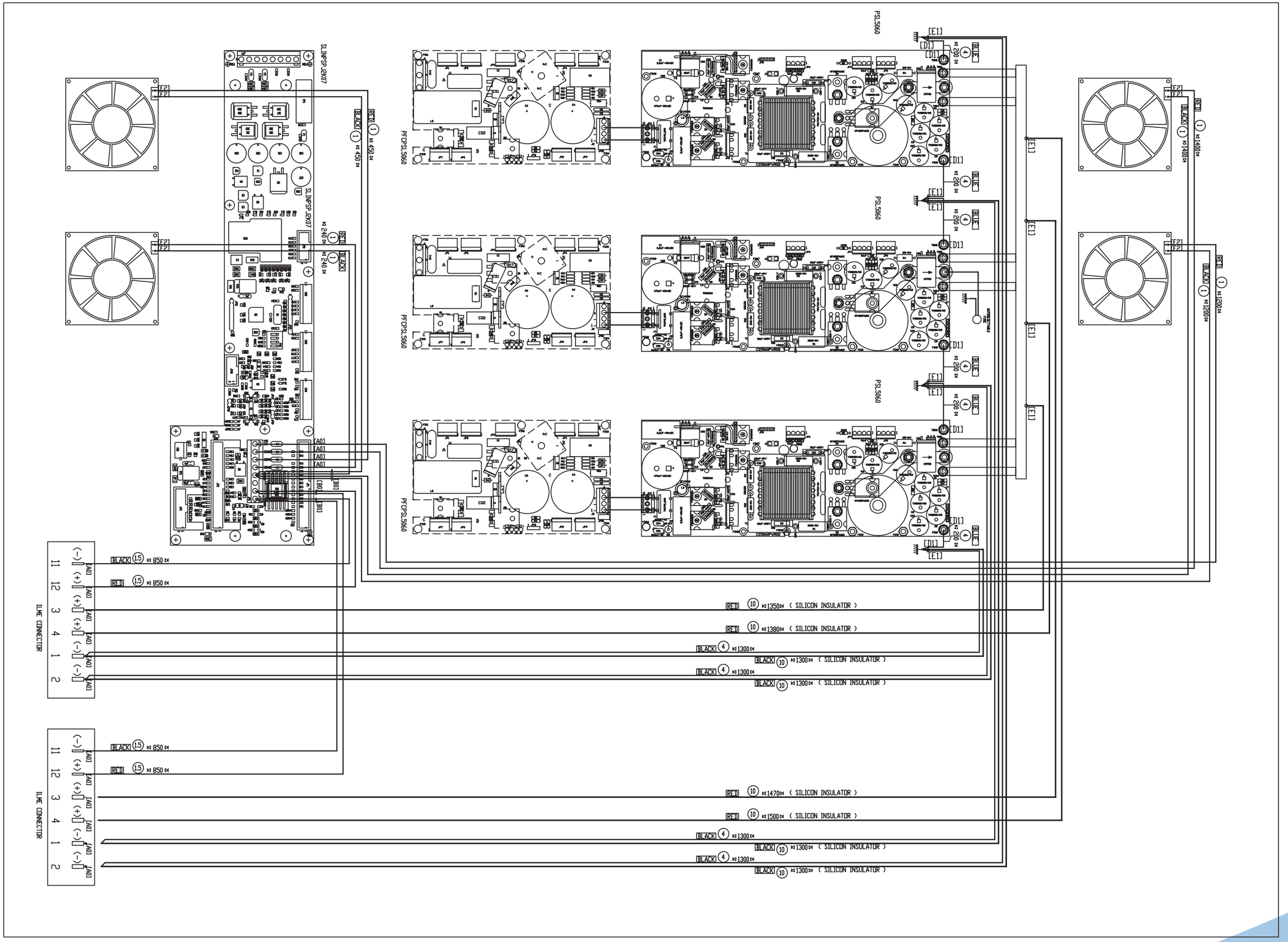

INSTALLED FOR
RETROFIT COMPATIBILITY
(NO MORE USED)
-36-
-34-
-37-
-38-
-31-
-30-
115V
230V
[A01]
18V
0V
22V
11.5V
PSL5060
PFCPSL5060
DRANG
WHITE
VIOL
BLACK
1.5
K1 1000 D4
SLINPSPJ2K07

Wiring Diagram - PJ3500M-C

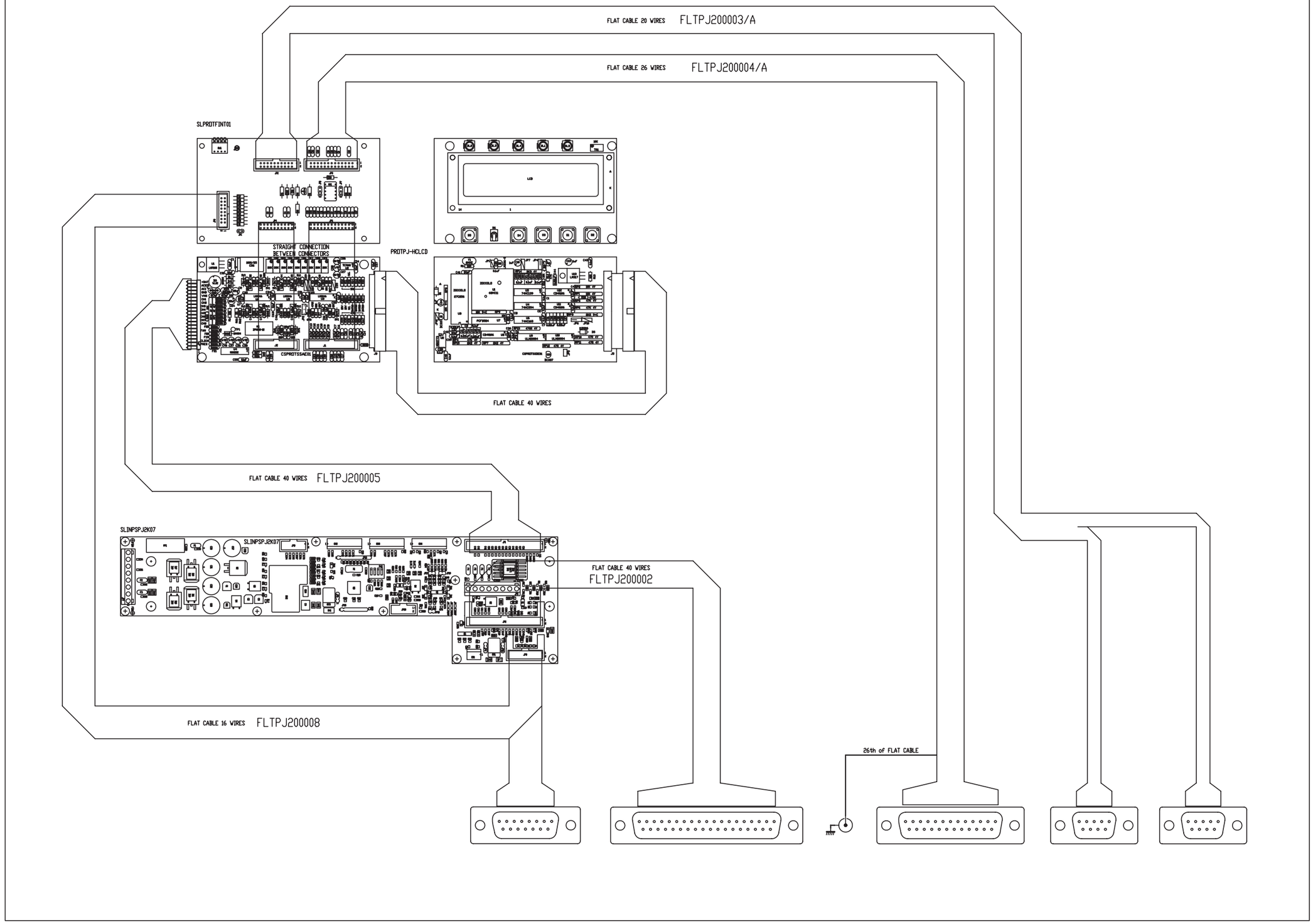
PS Section



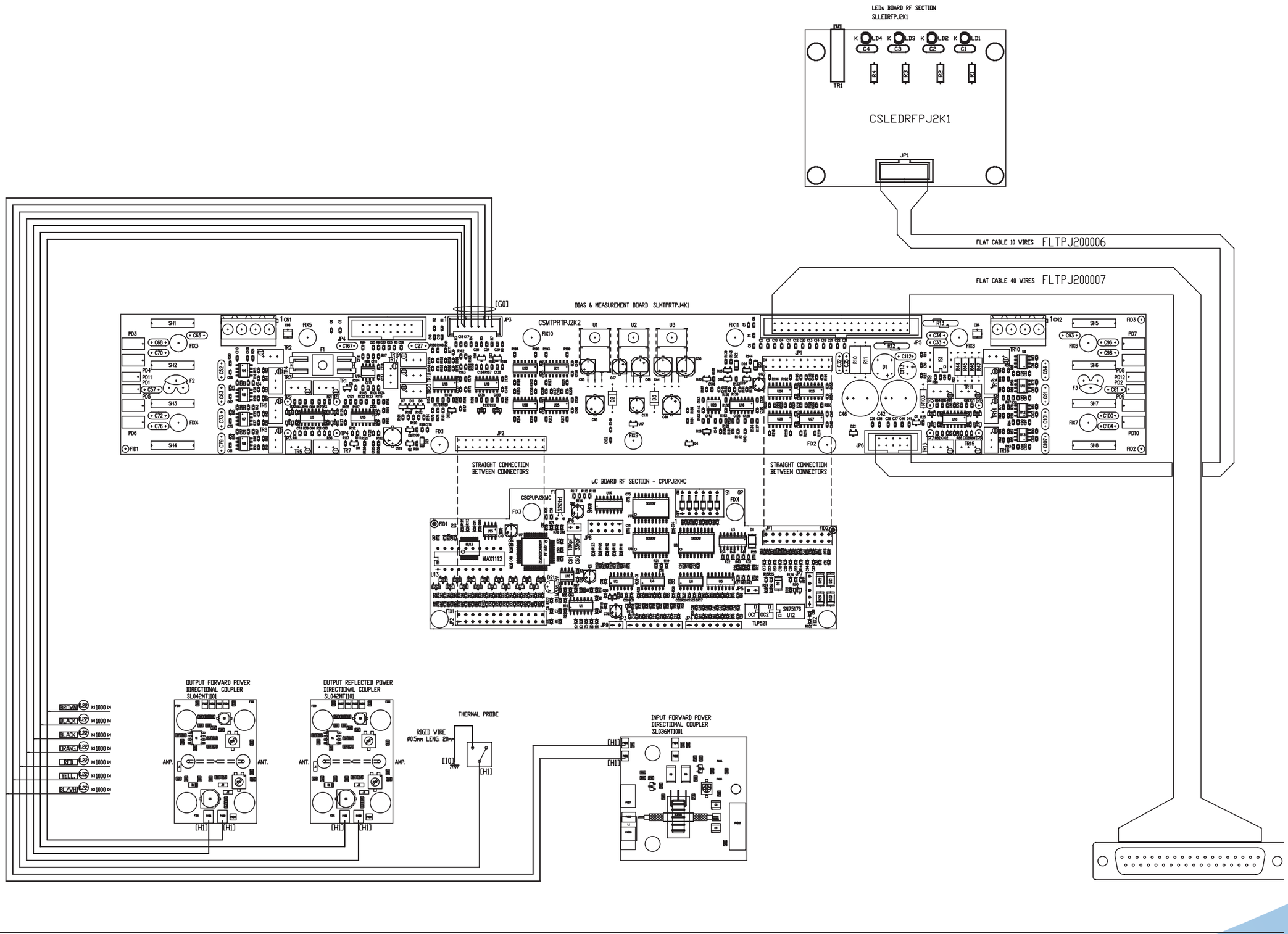
PS Section


SLIMPSP-J2K07
SLIMPSP-J2K07
PFCPSL5060
PFCPSL5060
PFCPSL5060
PSL5060
PSL5060
PSL5060
ILME CONNECTOR
ILME CONNECTOR
[BLACK] 1.5 ≋ 850 ≋
[RED] 1.5 ≋ 850 ≋
[BLACK] 1.5 ≋ 850 ≋
[RED] 1.5 ≋ 850 ≋
[RED] 10 ≋1350≋ (SILICON INSULATOR)
[RED] 10 ≋1380≋ (SILICON INSULATOR)
[BLACK] 4 ≋1300≋
[BLACK] 10 ≋1300≋ (SILICON INSULATOR)
[BLACK] 4 ≋1300≋
[BLACK] 10 ≋1300≋ (SILICON INSULATOR)
[RED] 10 ≋1470≋ (SILICON INSULATOR)
[RED] 10 ≋1500≋ (SILICON INSULATOR)
[BLACK] 4 ≋1300≋
[BLACK] 10 ≋1300≋ (SILICON INSULATOR)
[BLACK] 4 ≋1300≋
[BLACK] 10 ≋1300≋ (SILICON INSULATOR)

PS Section

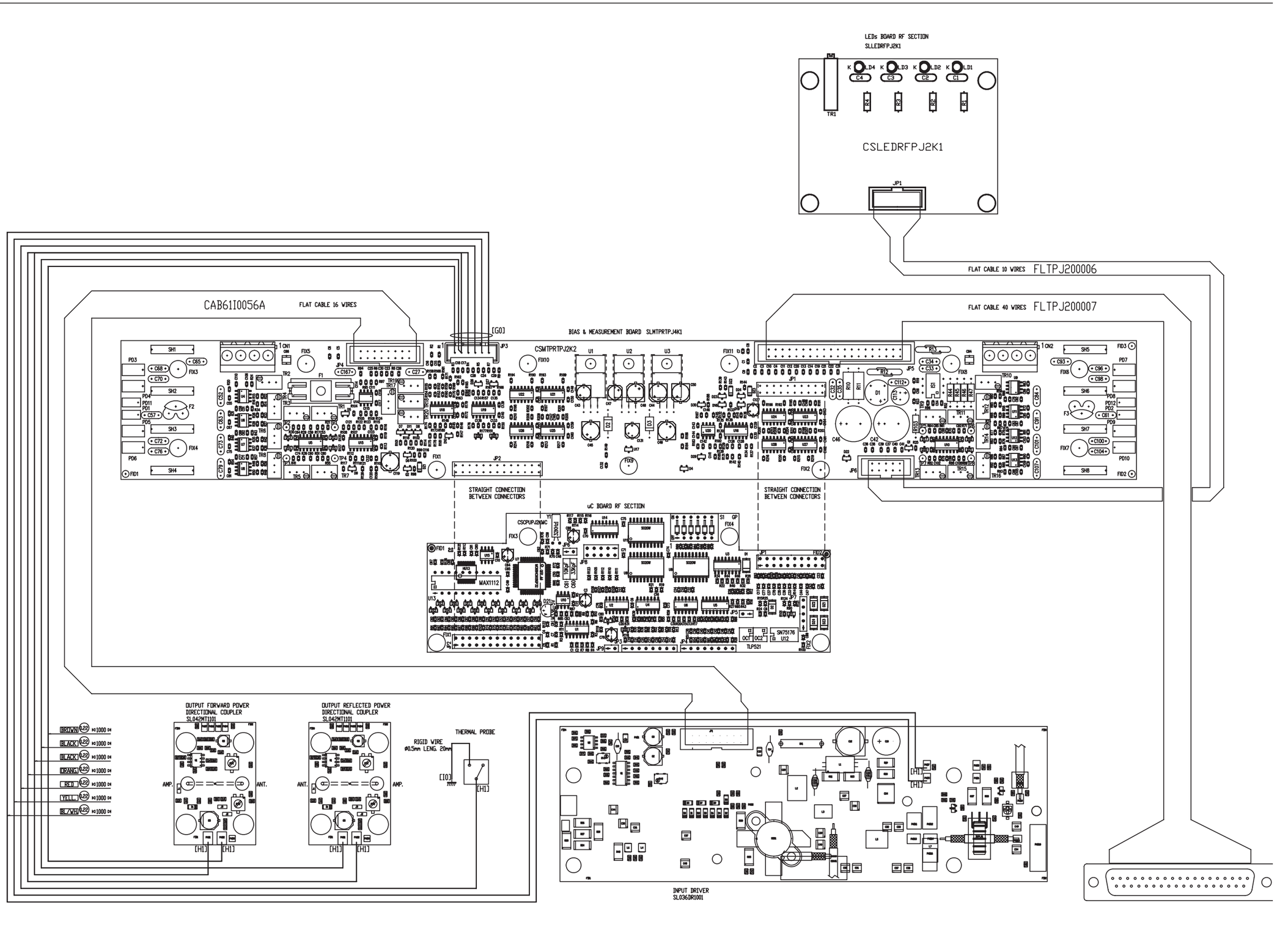

FLAT CABLE 20 WIRES FLTPJ200003/A
FLAT CABLE 26 WIRES FLTPJ200004/A
SLPROTFINT01
STRAIGHT CONNECTION
BETWEEN CONNECTORS
PROTPJ-HCLCD
FLAT CABLE 40 WIRES
FLAT CABLE 40 WIRES FLTPJ200005
SLINPSPJ2K07
SLINPSPJ2K07
FLAT CABLE 40 WIRES
FLTPJ200002
FLAT CABLE 16 WIRES FLTPJ200008
26th of FLAT CABLE

RF Section

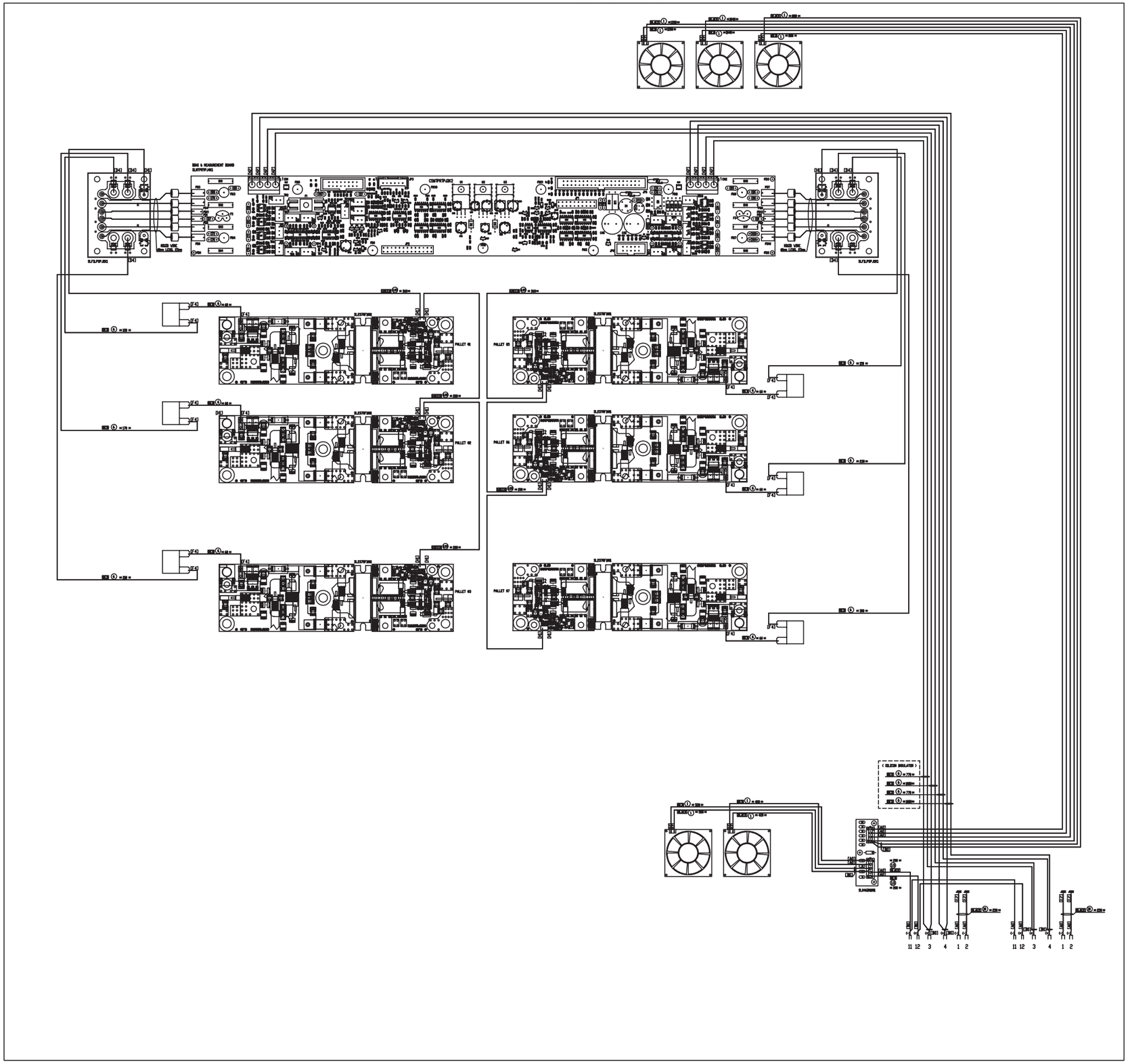

LEDs BOARD RF SECTION
SLLEDRFPJ2K1
LD4
LD3
LD2
LD1
C4
C3
C2
C1
R4
R3
R2
R1
TR1
CSLEDRFPJ2K1
JP1
FLAT CABLE 10 WIRES FLTPJ200006
FLAT CABLE 40 WIRES FLTPJ200007
[GO]
BIAS & MEASUREMENT BOARD SLMTPRTPJ4K1
CSMTPRTPJ2K2
STRAIGHT CONNECTION BETWEEN CONNECTORS
STRAIGHT CONNECTION BETWEEN CONNECTORS
uC BOARD RF SECTION - CPUPJ2KMC
CSCPUPJ2KMC
MAX1112
SN75176
TLP521
OUTPUT FORWARD POWER DIRECTIONAL COUPLER SL042MT1101
OUTPUT REFLECTED POWER DIRECTIONAL COUPLER SL042MT1101
THERMAL PROBE
RIGID WIRE ø0.5mm LENG. 20mm
INPUT FORWARD POWER DIRECTIONAL COUPLER SL036MT1001
BROWN
BLACK
BLACK
ORANG
RED
YELL
BL/WH
×1000 Ω
AMP.
ANT.
[H1]
[IO]

Wiring Diagram - PJ3500M-C

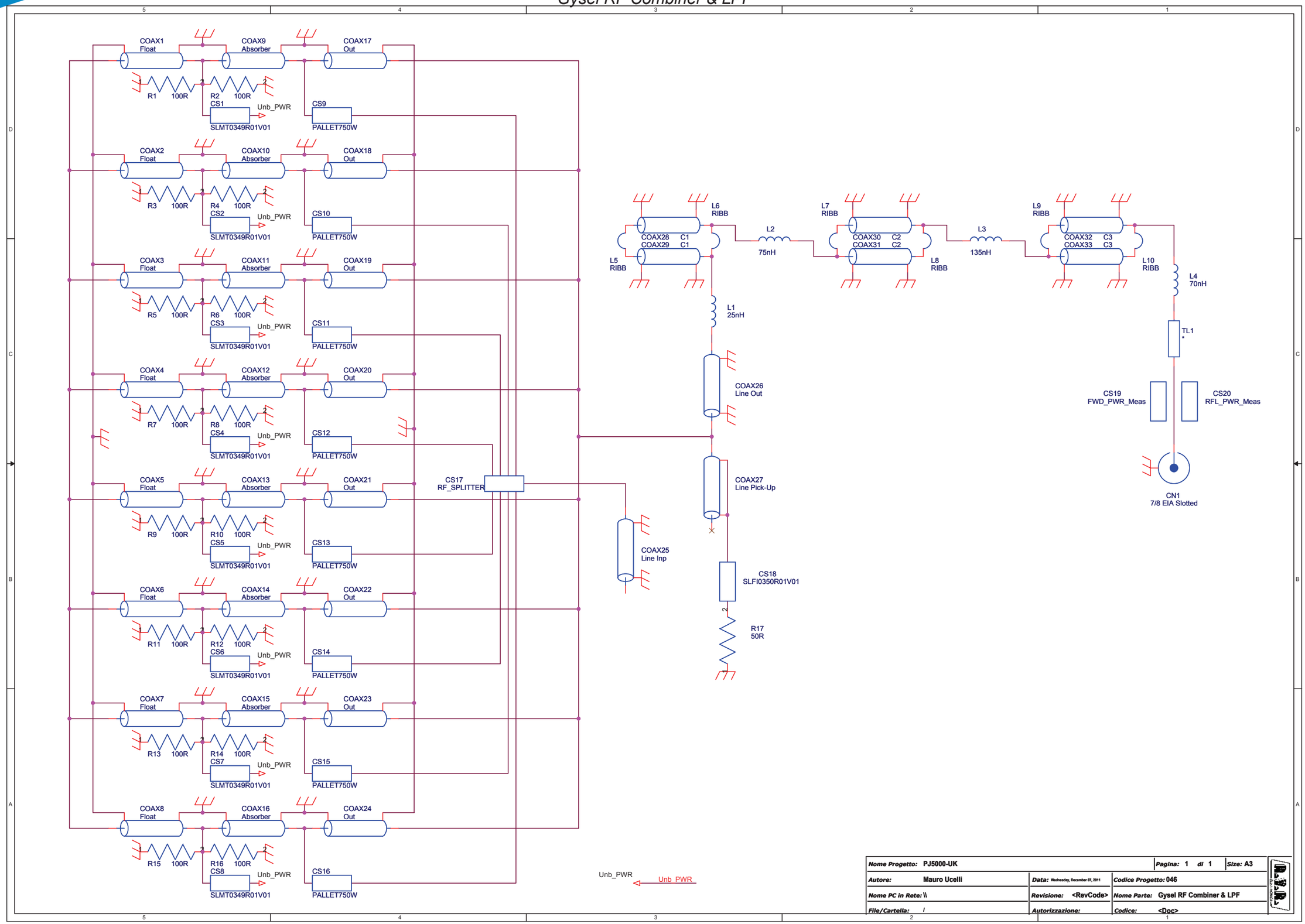
RF Section



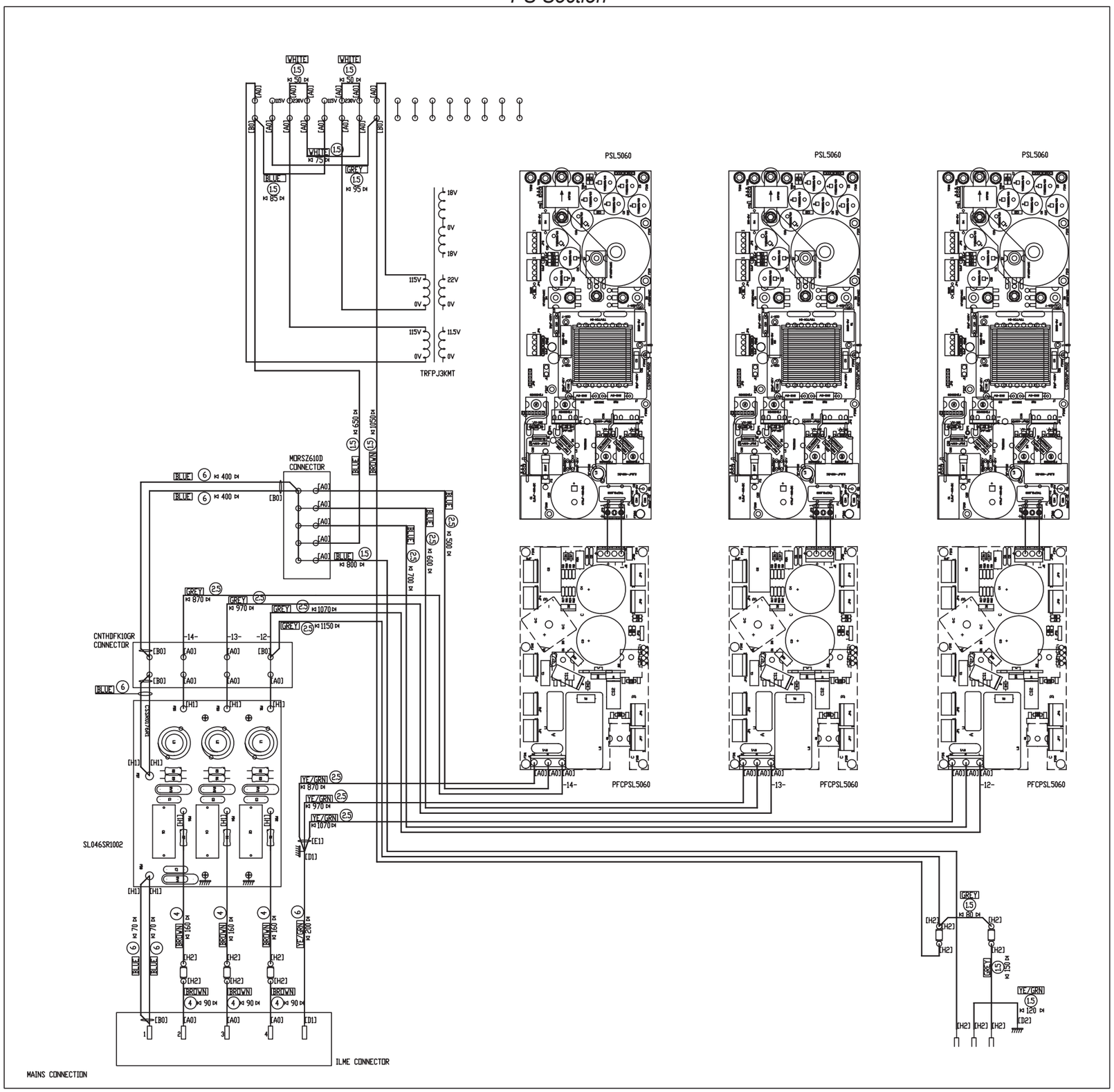
RF Section



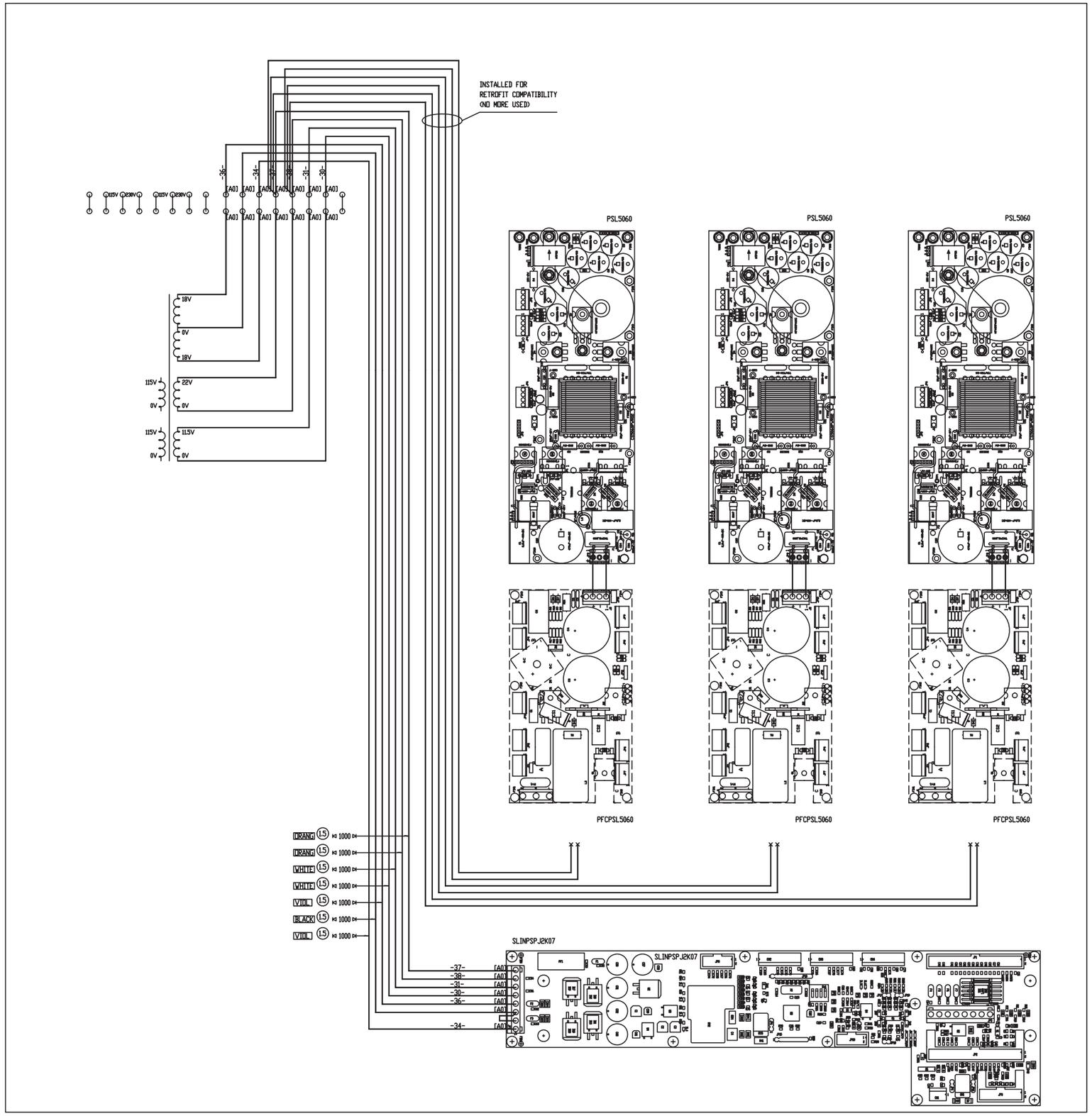
Gysel RF Combiner & LPF



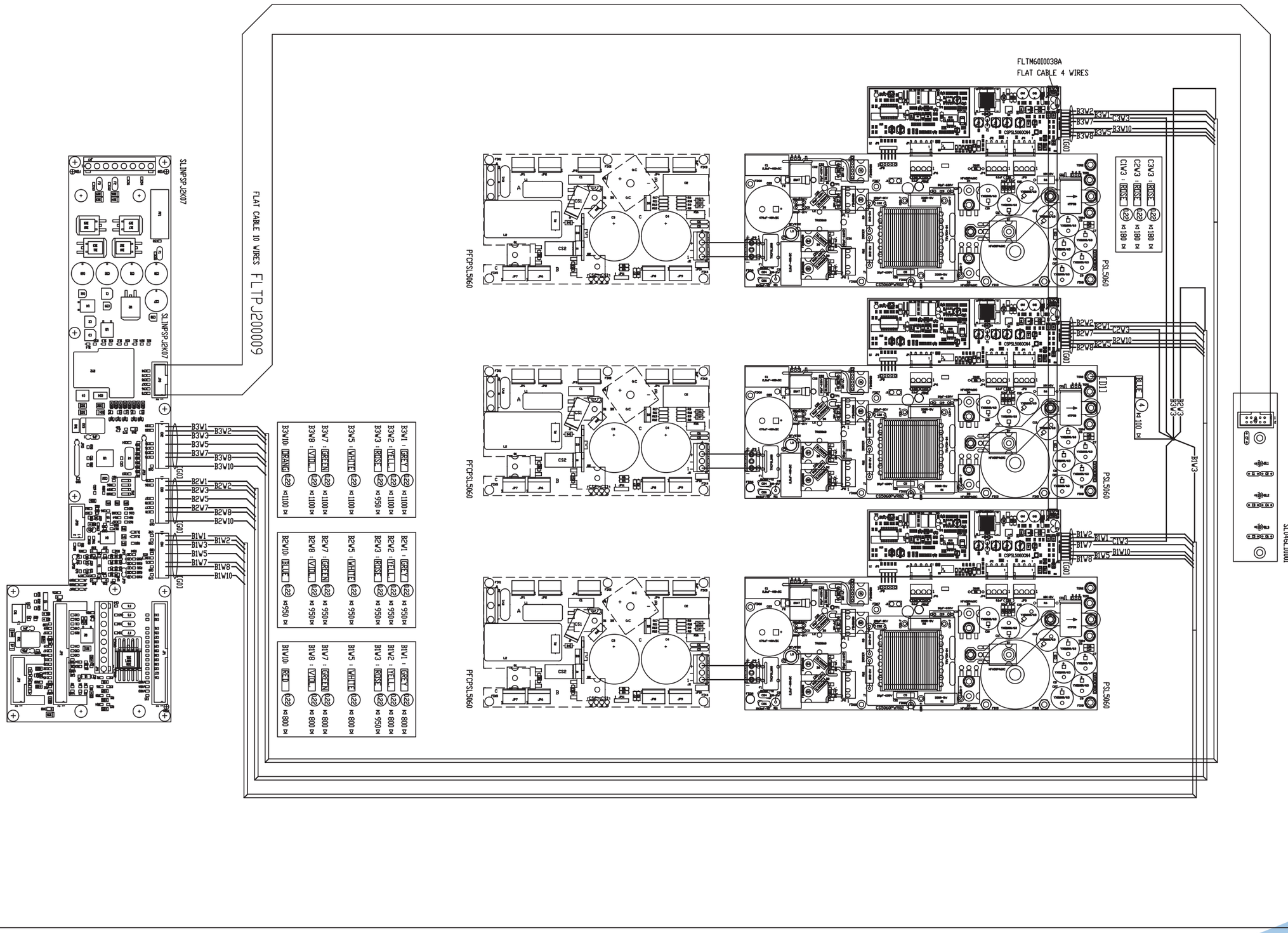
PS Section


PSL5060
PSL5060
PSL5060
PFCPSL5060
PFCPSL5060
PFCPSL5060
TRFPJ3KMT
MDRSZ610D CONNECTOR
CNTHDFK10GR CONNECTOR
SL046SR1002
ILME CONNECTOR
MAINS CONNECTION

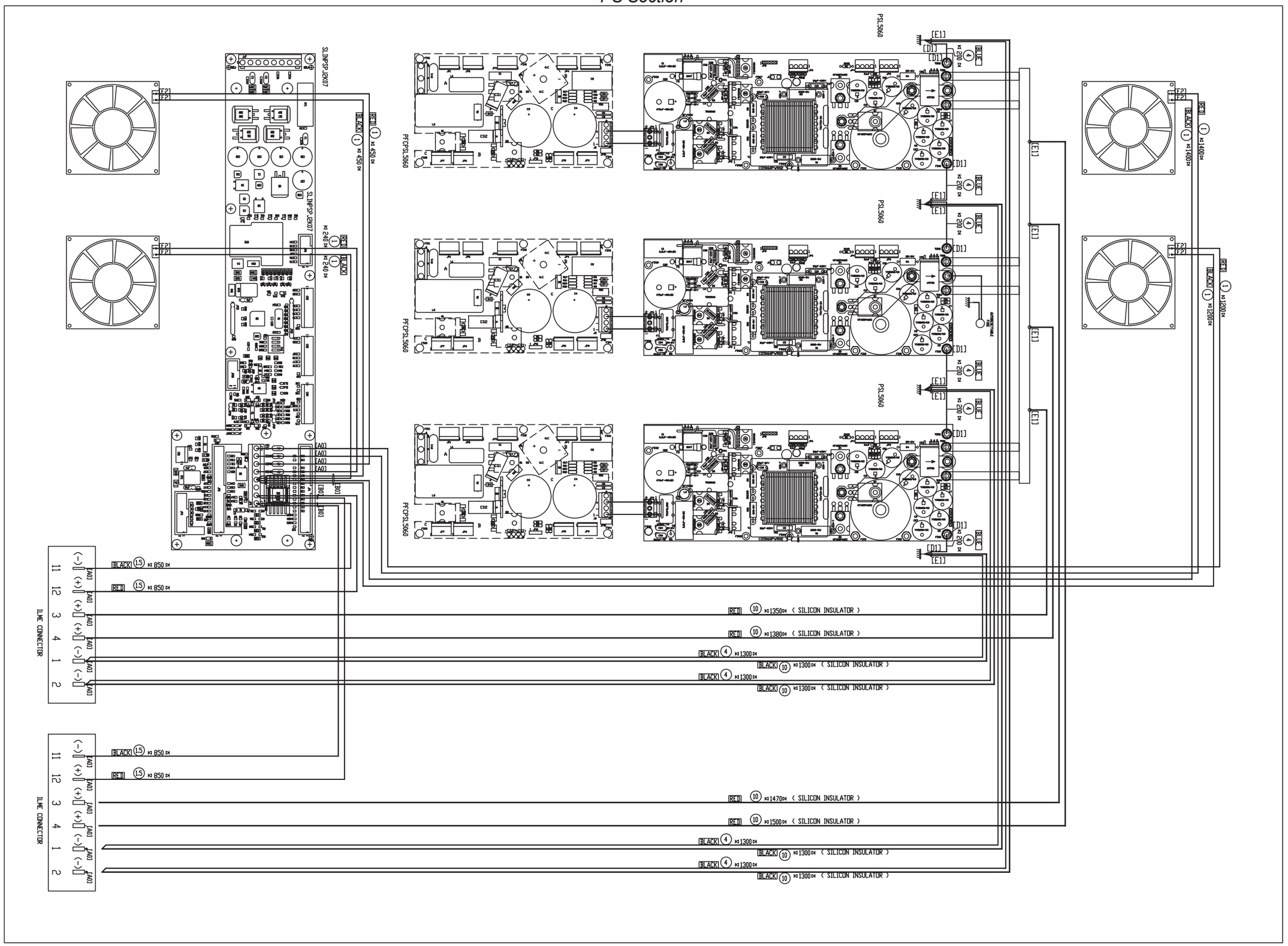
PS Section


INSTALLED FOR
RETROFIT COMPATIBILITY
(NO MORE USED)
-36-
-34-
-32-
-33-
-31-
-30-
[A01]
115V
230V
18V
0V
22V
11.5V
PSL5060
PFCPSL5060
DRANG
WHITE
VIOL
BLACK
1.5
kΩ 1000
SLINPSPJ2K07
-37-
-38-
-31-
-30-
-36-
-34-

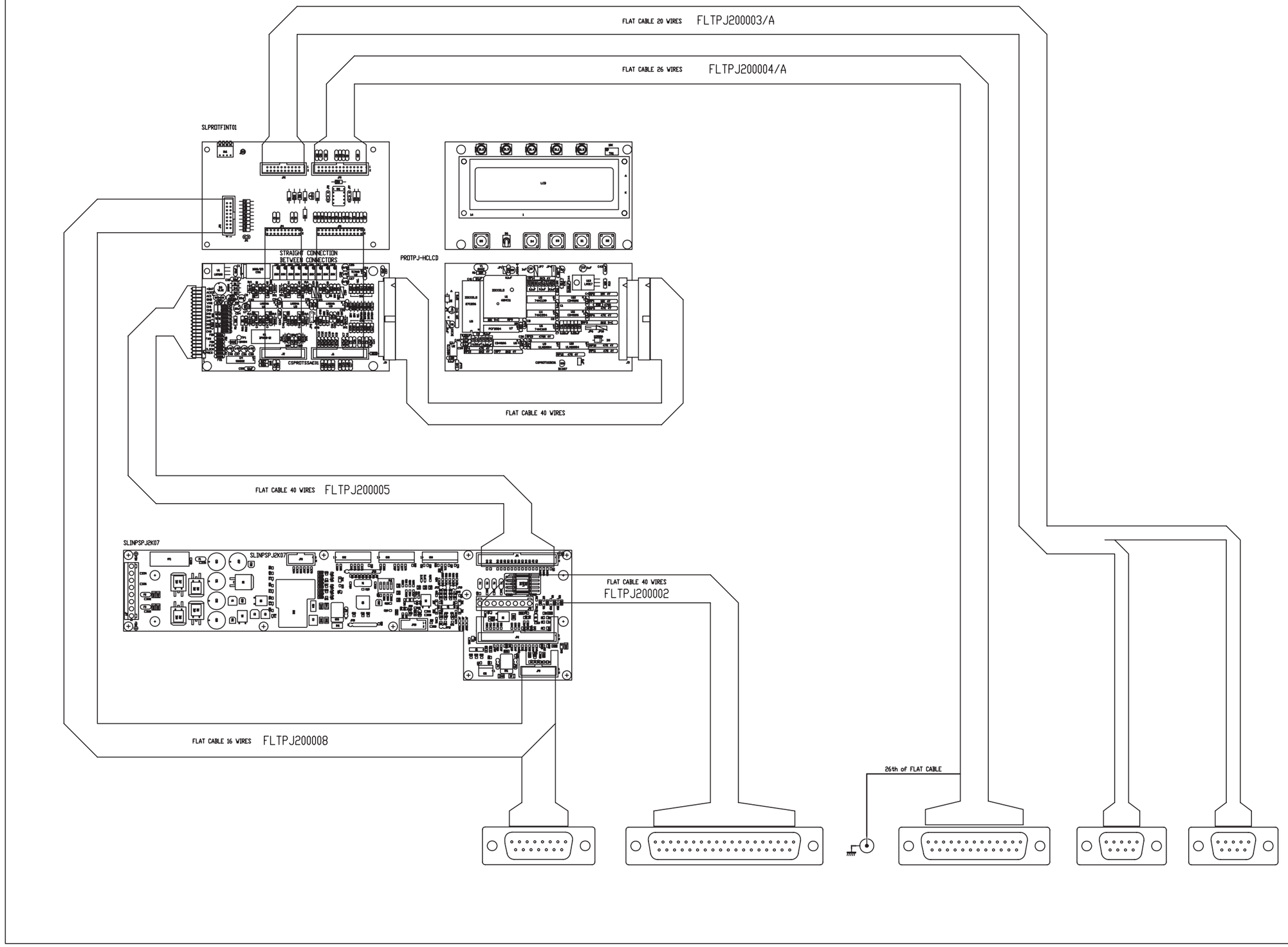
PS Section


SLINPSP-2K07
FLAT CABLE 10 WIRES FLTPJ200009
FLTM60I0038A
FLAT CABLE 4 WIRES
PFCPSL5060
PSL5060
SL04GLD1001

PS Section

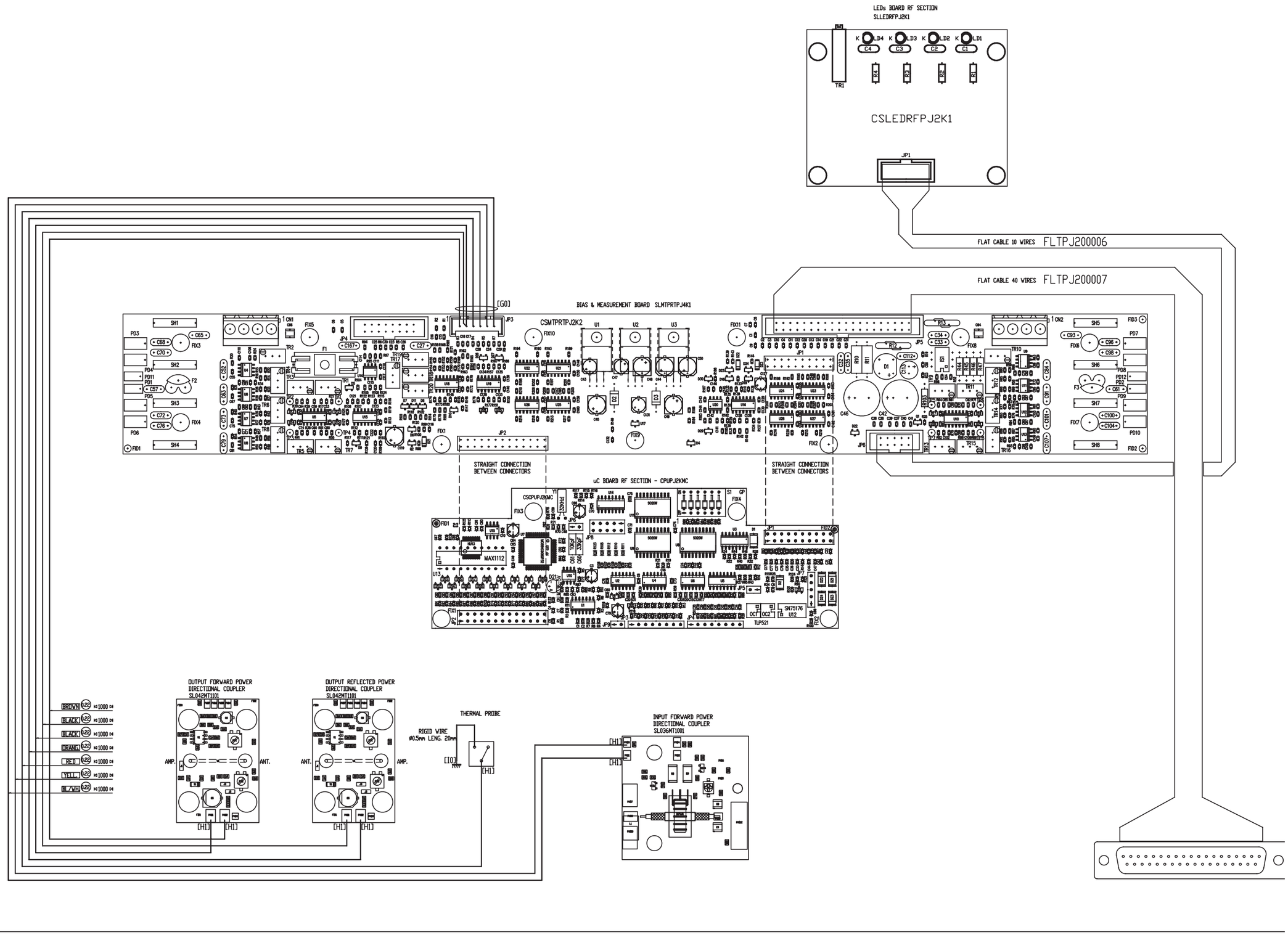

SLIMPSP-2K07
SLIMPSP-2K07
PFCPSL5060
PFCPSL5060
PFCPSL5060
PSL5060
PSL5060
PSL5060
[E1]
[D1]
[A01]
[B01]
RED
BLACK
[E2]
ILME CONNECTOR
11 12 3 4 1 2
(-) (+) (+) (+) (-) (-)
BLACK 1.5 ⌀1 850 ㎜
RED 1.5 ⌀1 850 ㎜
RED 10 ⌀1 1350 ㎜ (SILICON INSULATOR)
RED 10 ⌀1 1380 ㎜ (SILICON INSULATOR)
BLACK 4 ⌀1 1300 ㎜
BLACK 10 ⌀1 1300 ㎜ (SILICON INSULATOR)
BLACK 4 ⌀1 1300 ㎜
BLACK 10 ⌀1 1300 ㎜ (SILICON INSULATOR)
BLACK 1.5 ⌀1 850 ㎜
RED 1.5 ⌀1 850 ㎜
RED 10 ⌀1 1470 ㎜ (SILICON INSULATOR)
RED 10 ⌀1 1500 ㎜ (SILICON INSULATOR)
BLACK 4 ⌀1 1300 ㎜
BLACK 10 ⌀1 1300 ㎜ (SILICON INSULATOR)
BLACK 4 ⌀1 1300 ㎜
BLACK 10 ⌀1 1300 ㎜ (SILICON INSULATOR)
RED 1.5 ⌀1 450 ㎜
BLACK 1.5 ⌀1 450 ㎜
RED 1.5 ⌀1 240 ㎜
BLACK 1.5 ⌀1 240 ㎜
RED 1.5 ⌀1 400 ㎜
BLACK 1.5 ⌀1 400 ㎜
RED 1.5 ⌀1 200 ㎜
BLACK 1.5 ⌀1 200 ㎜

PS Section

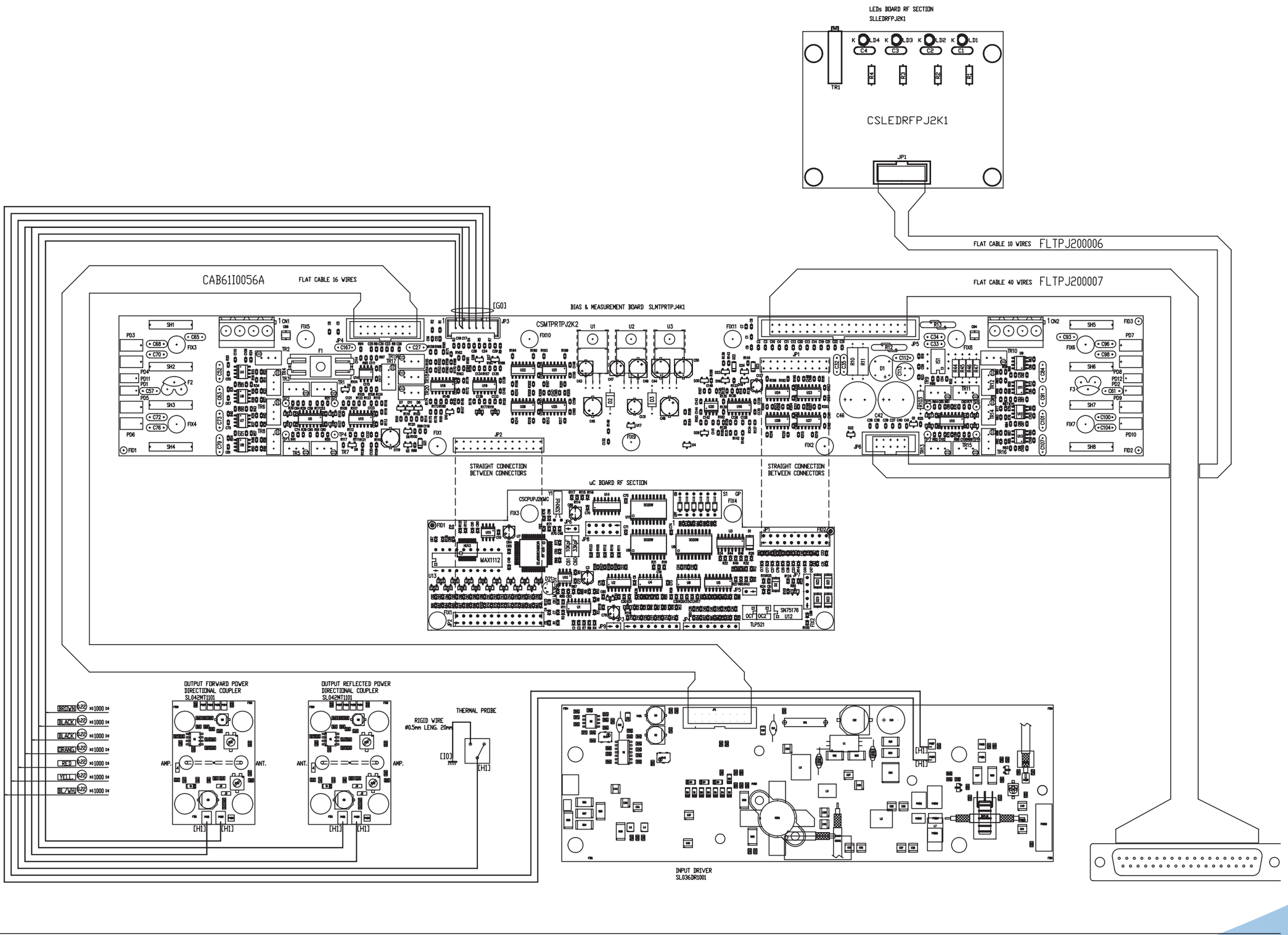

FLAT CABLE 20 WIRES FLTPJ200003/A
FLAT CABLE 26 WIRES FLTPJ200004/A
SLPROTFINT01
STRAIGHT CONNECTION
BETWEEN CONNECTORS
PROTPJ-HCLCD
FLAT CABLE 40 WIRES
FLAT CABLE 40 WIRES FLTPJ200005
SLINPSPJ2K07
SLINPSPJ2K07
FLAT CABLE 40 WIRES
FLTPJ200002
FLAT CABLE 16 WIRES FLTPJ200008
26th of FLAT CABLE

Wiring Diagram - PJ5000U-K

RF Section

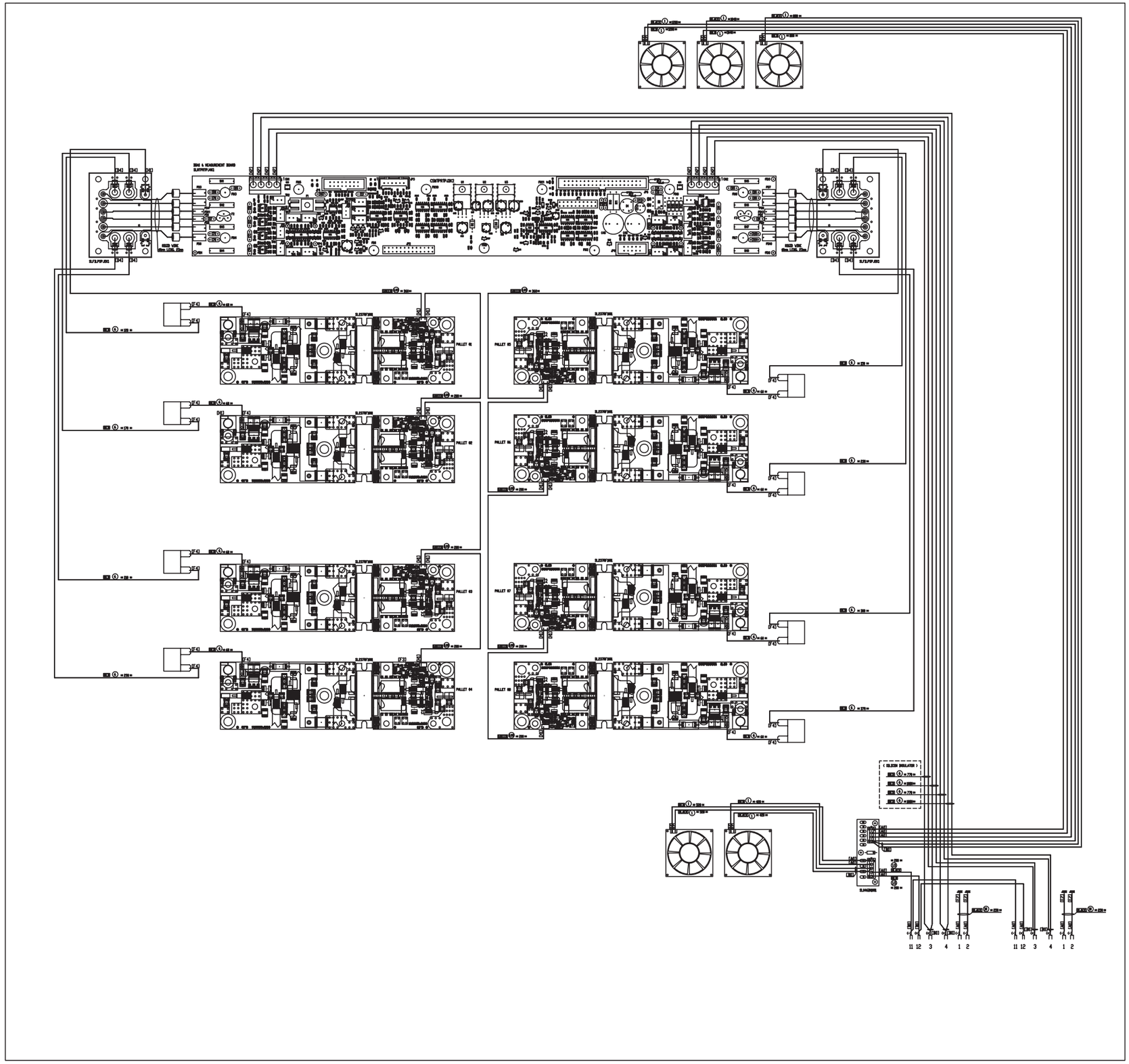


RF Section

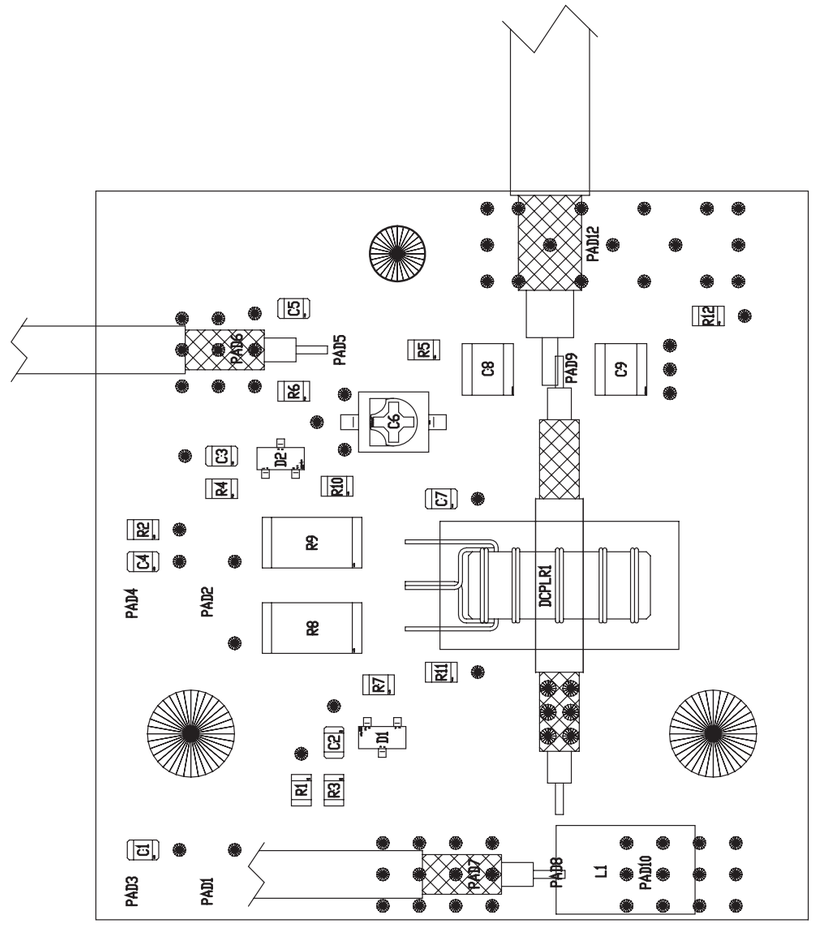

LEDs BOARD RF SECTION
SLLEDRFPJ2K1
CSLEDRFPJ2K1
FLAT CABLE 10 WIRES FLTPJ200006
FLAT CABLE 40 WIRES FLTPJ200007
CAB61I0056A
FLAT CABLE 16 WIRES
BIAS & MEASUREMENT BOARD SLMTPRTPJ4K1
CSMTPRTPJ2K2
STRAIGHT CONNECTION BETWEEN CONNECTORS
uC BOARD RF SECTION
OUTPUT FORWARD POWER DIRECTIONAL COUPLER SL042MTI101
OUTPUT REFLECTED POWER DIRECTIONAL COUPLER SL042MTI101
RIGID WIRE ø0.5mm LENG. 20mm
THERMAL PROBE
INPUT DRIVER SL036DR1001

Wiring Diagram - PJ5000U-K

RF Section



SL036MT1001



NOME PARTE: INPUT POWER MEASURE

DATA: 13/09/2005 | REVISIONE: 1.0 | SCALA: 1:1 | SIZE: A4 | PAGINA: 1 DI 1

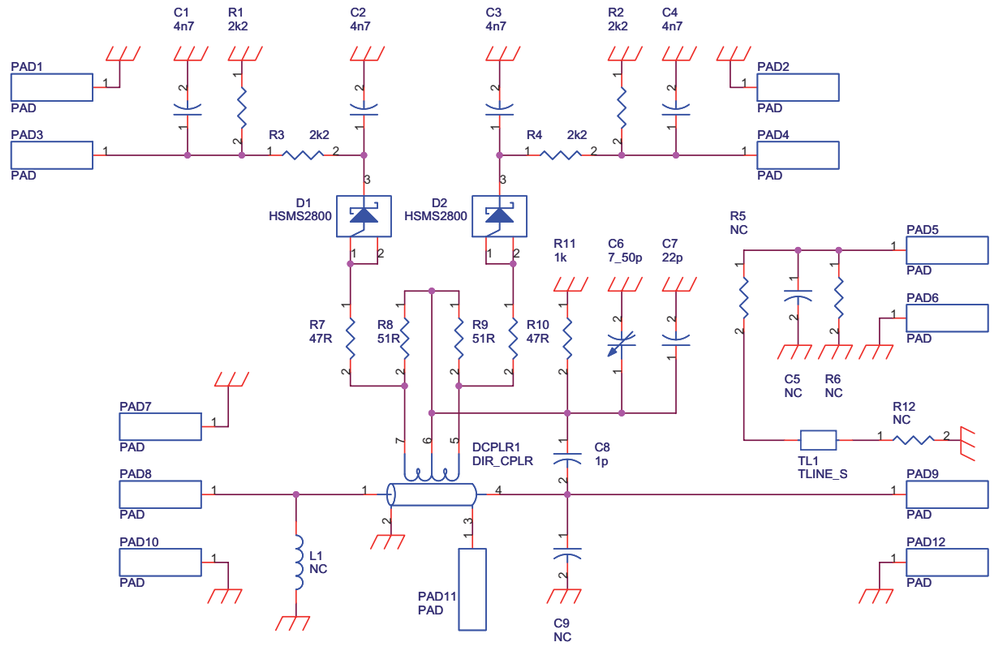
NOME PROGETTO: DRIVER LOW POWER | NOME P

AUTORE: UCELLI | DATA:

ARCHIVIAZIONE ELETTRONICA: "CARTELLA PROGETTI" SU "UT_SRV" | CODICE DISEGNO: SL036MT1001 | CODICE PROGETTO: 036

MATERIALE: <> | TRATTAMENTO: <> | PROFILO: <> | STATO: PROGETTUALE

R.V.R. ELETTRONICA



CS1
CSMT0067R1

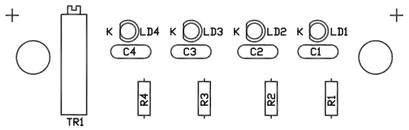
FID1 FID
FID2 FID
FID3 FID
FID4 FID

Nome Progetto: Driver PJ2000		**Pagina:** 1 di 1	**Size:** A3
Autore: Mauro Ucelli	**Data:** 13/09/05	**Codice Progetto:** 036	
Nome PC in Rete: \\UTSRV\PROGETTI\	**Revisione:** 1.0	**Nome Parte:** Input Power Measure	
File/Cartella: \	**Autorizzazione:**	**Codice:** SL036MT1001	

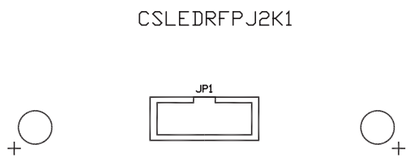
Input Power Measure
SL036MT1001
Revision: 1.0
Driver PJ2000
036
Mauro Ucelli
13/09/2005

Item	Quantity	Reference	Part	Description	Code1
1	1	CS1	CSMT0067R1		CSMT0067R1
2	4	C1,C2,C3,C4	4n7	Cond. SMD 0805	CCC085472KXC
3	1	C5	NC	Cond. SMD 0805 COG	
4	1	C6	7_50p	Comp. var. Murata TZB4A	CVF500D4,5SM
5	1	C7	22p	Cond. SMD 0805	CCC085220JCC
6	1	C8	1p	Cond. SMD 1212 HQ	CHQ010CA501
7	1	C9	NC	Cond. SMD 1212 HQ	
8	1	DCPLR1	DIR_CPLR	Accopp. direz.	KITFTR1010SP
9	2	D2,D1	HSMS2800	Diodo Shottky SOT23	DISHSMS2800
10	4	FID1,FID2,FID3,FID4	FID		
11	1	L1	NC	Induttanza cilindrica	
12	12	PAD1,PAD2,PAD3,PAD4,PAD5,	PAD		
		PAD6,PAD7,PAD8,PAD9,			
		PAD10,PAD11,PAD12			
13	4	R1,R2,R3,R4	2k2	Res. SMD 0805	RCH085F002K2
14	3	R5,R6,R12	NC	Res. SMD 0805	
15	2	R10,R7	47R	Res. SMD 0805	RCH085F0047H
16	2	R9,R8	51R	Res. SMD 2512 1%	RCH252J0051H
17	1	R11	1k	Res. SMD 0805	RCH085F0001K
18	1	TL1	TLINE_S	Linea strip CS	

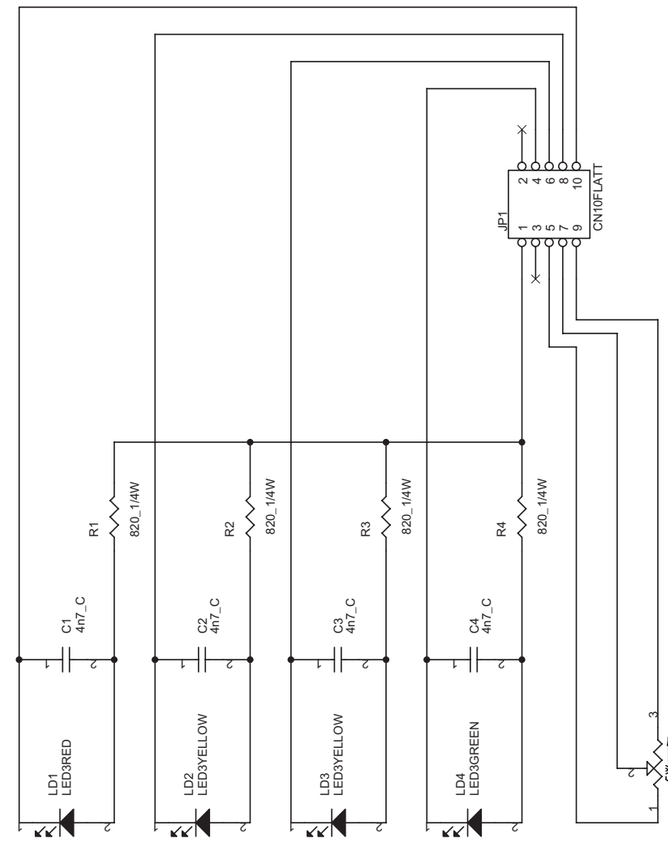
SLLEDRFPJ2K1



CSLEDRFPJ2K1



NOME PROGETTO: HC5-10			NOME PARTE: LED RF BOARD				
AUTORE: GP - Rev.: Berti J.		DATA: 11/02/2004	REVISIONE: 1.0	SCALA: 1:1	SIZE: A4	PAGINA: 1 DI 1	
ARCHIVIAZIONE ELETTRONICA: "CARTELLA PROGETTI" SU "UT_SRV"		CODICE PROGETTO: 014		CODICE DISEGNO: SLLEDRFPJ2K1			
MATERIALE: FR4-74 1.6mm Cu 35um	TRATTAMENTO: STANDARD COSTRUTTORE		PROFILO: Positivo		STATO: ESECUTIVO		



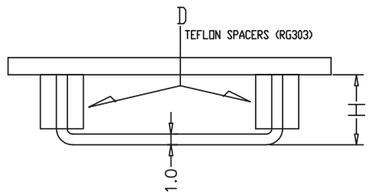
Nome Progetto: HC5-10	Pagina: 1 di 1	Size: A4	
Autore: Mauro Ucelli	Data: 28/02/02	Codice Progetto: 014	
Nome PC in Rete: Mauro2	Revisione: 1.0	Nome Parte: LEDs board RF section	
File/Cartella: HC5-10 Elenco Art Schemi Elettrici\SLLEDRFPJ2K1		Autorizzazione:	Codice: SLLEDRFPJ2K1

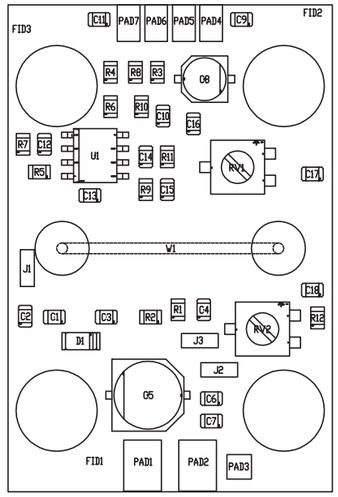
SLLEDRFPJ2K1

LEDs board RF section Revised: Thursday, February 26, 2004
SLLEDRFPJ2K1 Revision: 1.0
HC5-10

Item	Quantity	Reference	Part	Description
1	4	C1, C2, C3, C4	4n7_C	COND.CER. 4NF7 P5,08 10% 60V N150
2	1	JP1	CN10FLATT	Connettore 10p per Flatt diritto
3	1	LD1	LED3RED	Diodo LED 3mm Rosso
4	2	LD2, LD3	LED3YELLOW	Diodo LED 3mm Giallo
5	1	LD4	LED3GREEN	Diodo LED 3mm Verde
6	4	R1, R2, R3, R4	820_1/4W	Resistenza 820 Ohm 1/4W
7	1	TR1	20k	Trimmer multigiri 20k reg. di lato in conten. allungato (L623)

W1 LINK CONFIGURATION



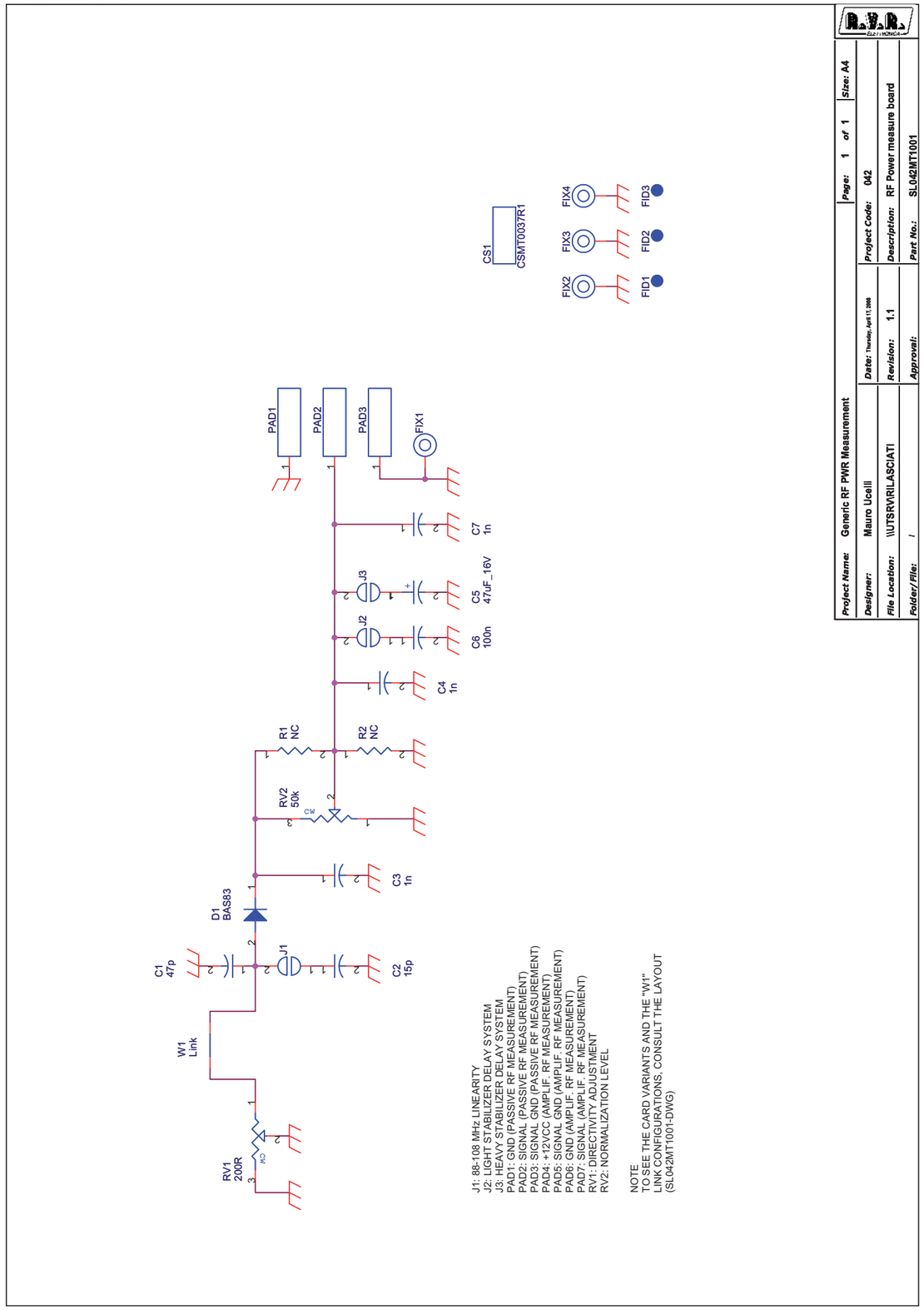


J1: 88-108 MHz LINEARITY
J2: LIGHT STABILIZER DELAY SYSTEM
J3: HEAVY STABILIZER DELAY SYSTEM
PAD1: GND (PASSIVE RF MEASUREMENT)
PAD2: SIGNAL (PASSIVE RF MEASUREMENT)
PAD3: SIGNAL GND (PASSIVE RF MEASUREMENT)
PAD4: +12VCC (AMPLIF. RF MEASUREMENT)
PAD5: SIGNAL GND (AMPLIF. RF MEASUREMENT)
PAD6: GND (AMPLIF. 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		
SL042MT1601	5.5	X	X		X

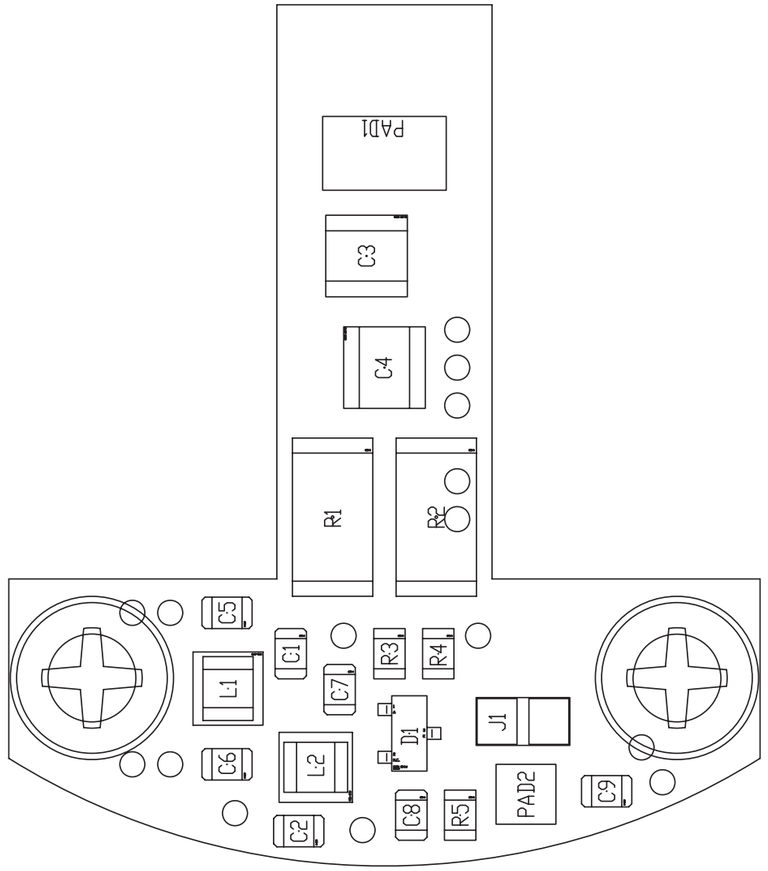
ELETTRONICA	PROJECT NAME: POWER METER		PART No.: POWER METER				
	DESIGNER: M. UCELLI		DATE: 27/09/2011	REVISION: 1.0	SCALE: 2:1	SIZE: A4	PAGE: 1 OF 1
FILE LOCATION: \\Utsrv\Rilasciati\2_Schede\SL042MT1001		PROJECT CODE: 042		CODE: SL042MT1001			
MATERIAL: <>		TREATMENT: <>		PROFILE: <>		STATE: EXECUTIVE	

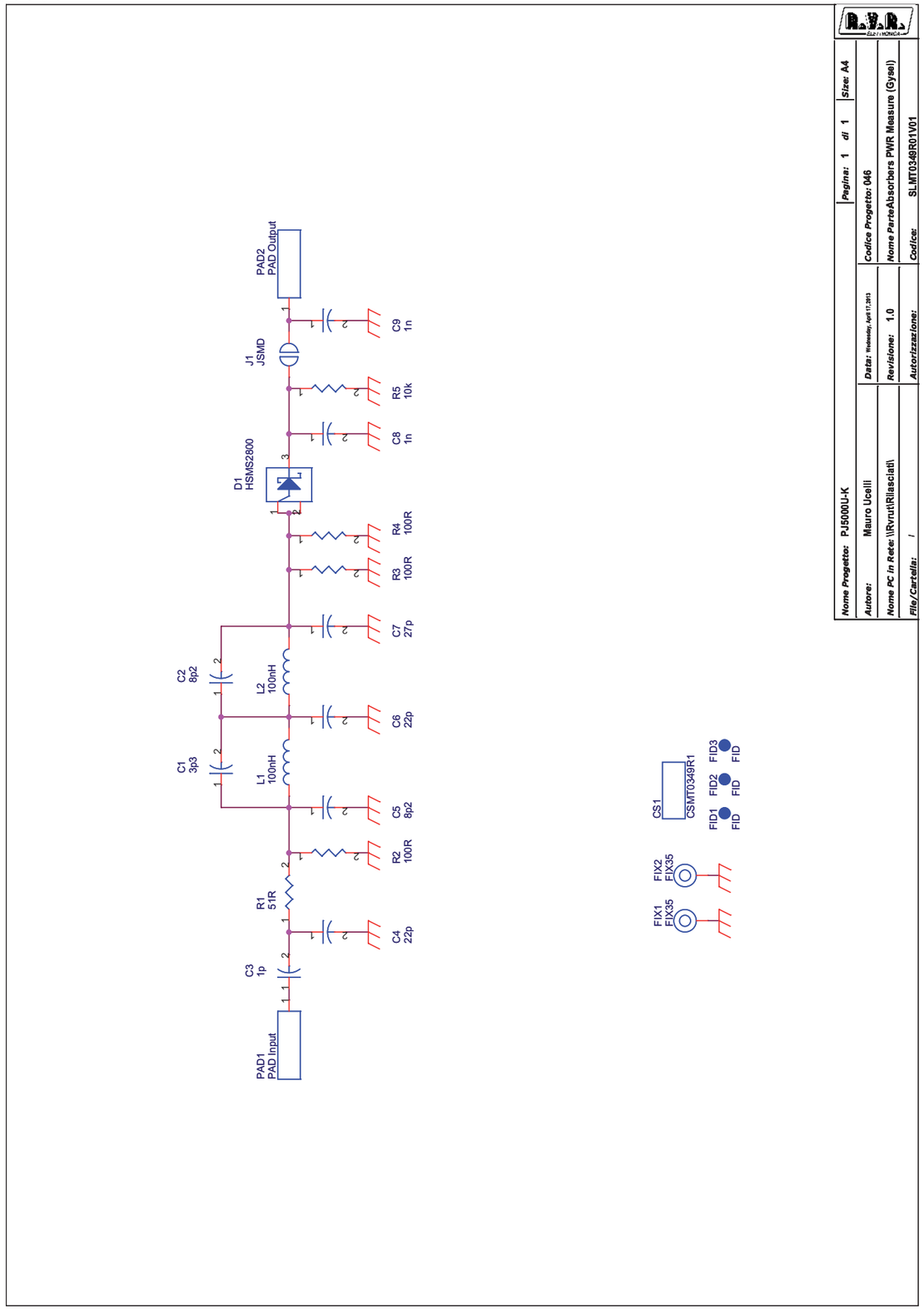


RF Power measure board
SL042MT1001
Revision: 1.1
Generic RF PWR Measurement
042
Mauro Ucelli
17/04/2008

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

SLMT0349R01V01



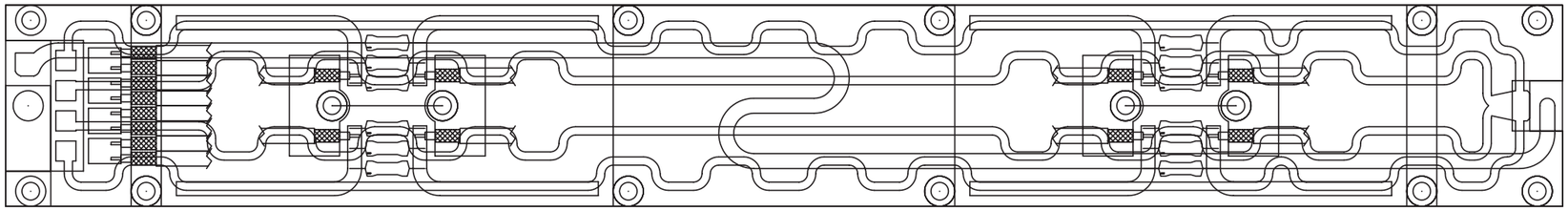


SLMT0349R01V01

Absorbers PWR Measure (Gysel)
SLMT0349R01V01
Revision: 1.0 17/04/2013
PJ5000-UK
046
Mauro Ucelli
06/12/11

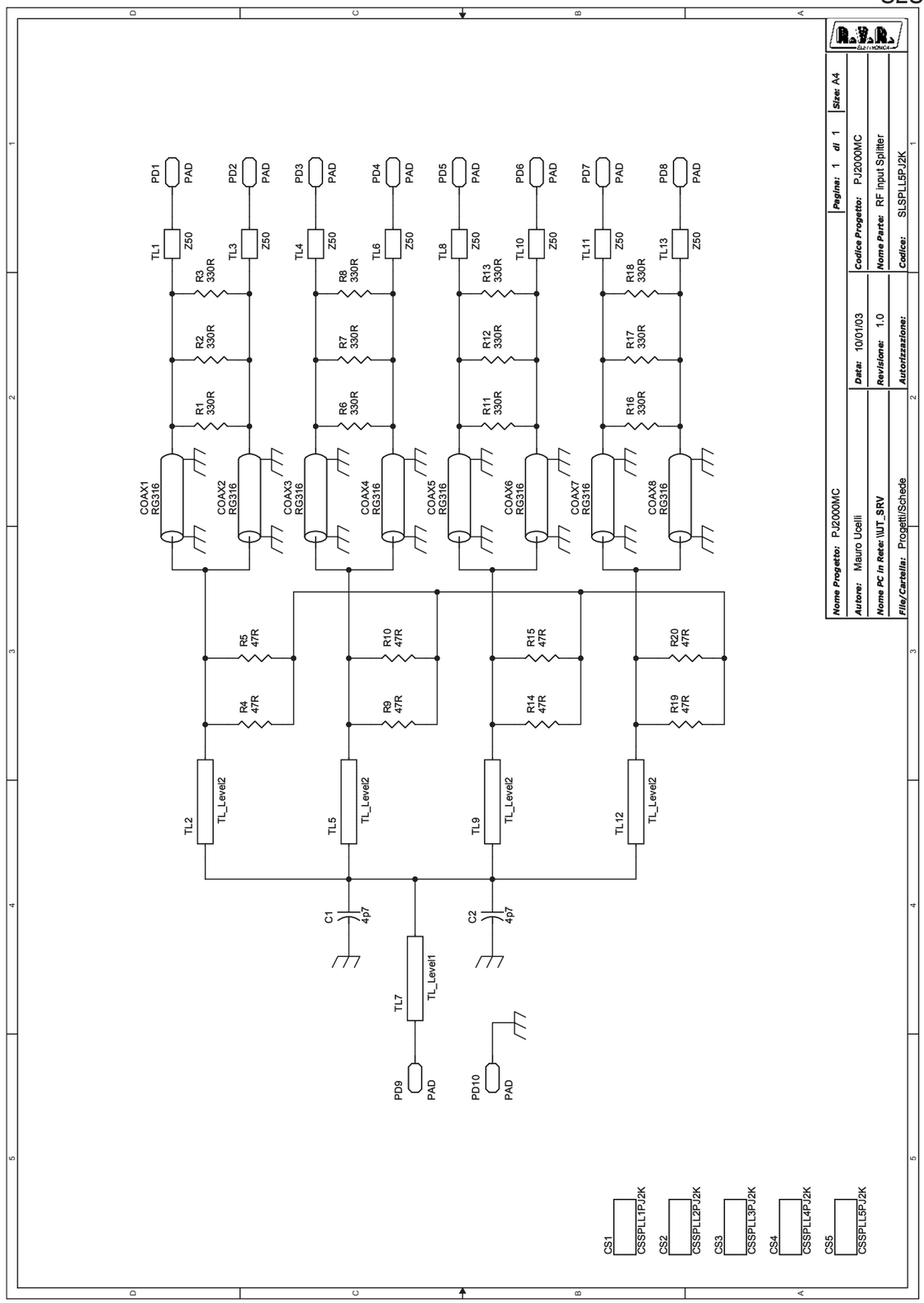
Item	Quantity	Reference	Part	Description	Code1
1	1	CS1	CSMT0349R1	Circuito stampato	CSMT0349R1
2	1	C1	3p3	Cond. SMD 0805 COG	CCC0853P3JCC
3	2	C2,C5	8p2	Cond. SMD 0805 COG	CCC0858P2JCC
4	1	C3	1p	Cond. SMD 1212 HQ	CHQ010CA501
5	1	C4	22p	Cond. SMD 1212 HQ	CHQ220JA501
6	1	C6	22p	Cond. SMD 0805 COG	CCC085220JCC
7	1	C7	27p	Cond. SMD 0805 COG	CCC085270JCC
8	2	C8,C9	1n	Cond. SMD 0805 NP0	CCC085102JNC
9	1	D1	HSMS2800		DISHSMS2800
10	3	FID1,FID2,FID3	FID	Fiducial CS	
11	2	FIX1,FIX2	FIX35	Foro fissaggio 3.5mm	
12	1	J1	JSMD	Pad SMD a saldare	
13	2	L1,L2	100nH	Induttanza SMD 2520 (1008)	IMP100NS108
14	1	PAD1	PAD Input	Pad SMD saldare	
15	1	PAD2	PAD Output	Pad SMD saldare	
16	1	R1	51R	Res. SMD 2512 1%	RCH252F0051H
17	1	R2	100R	Res. SMD 2512 1%	RCH252F0100H
18	2	R3,R4	100R	Res. SMD 0805	RCH085F0100H
19	1	R5	10k	Res. SMD 0805	RCH085F0010K

SLSPLL5PJ2K



R.V.R. ELETTRONICA	NOME PROGETTO: PJ2000MC			NOME PARTE: RF input Splitter			
	AUTORE: Mauro Ucelli		DATA: 10/01/03	REVISIONE: 1.0	SCALA: 1:1	SIZE: A3	PAGINA: 1 DI 1
ARCHIVIAZIONE ELETTRONICA: "CARTELLA PROGETTI" SU "UTSRV"		CODICE PROGETTO: /		CODICE DISEGNO: SLSPLL5PJ2K			
MATERIALE: /		TRATTAMENTO: /		PROFILO: /		STATO: /	

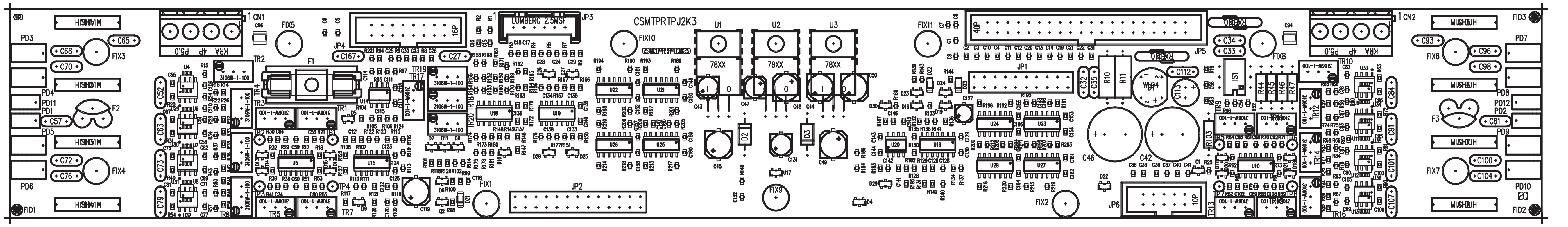
SLSPLL5PJ2K



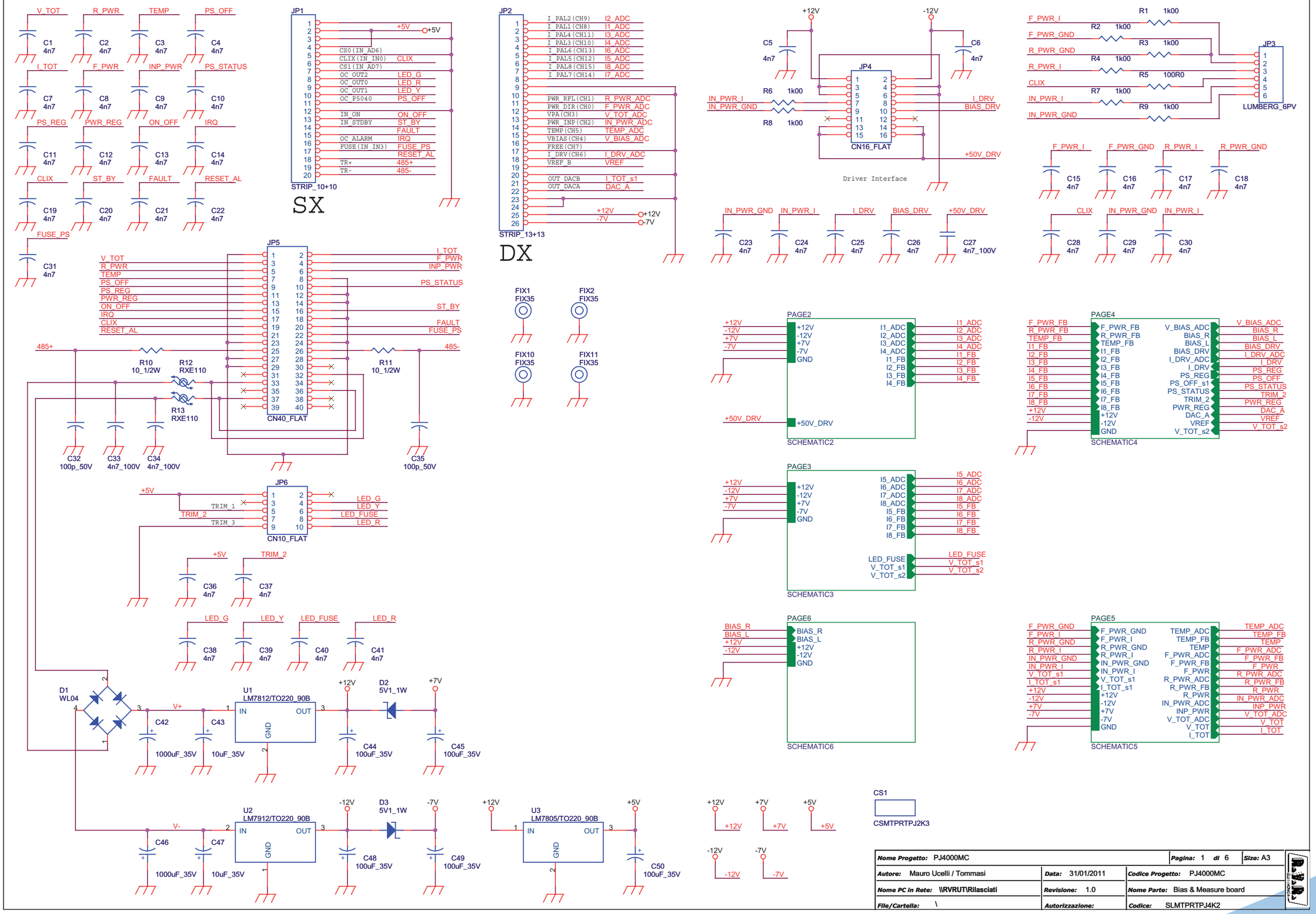
RF input Splitter
SLSPLL5PJ2K
Revision: 1.0
PJ2000MC
Mauro Ucelli
10/01/2003

Item	Quantity	Reference	Part	Description
1	8	COAX1,COAX2,COAX3,COAX4, COAX5,COAX6,COAX7,COAX8	RG316	Cavo coax
2	1	CS1	CSSPLL1PJ2K	Circuito stampato
3	1	CS2	CSSPLL2PJ2K	Circuito stampato
4	1	CS3	CSSPLL3PJ2K	Circuito stampato
5	1	CS4	CSSPLL4PJ2K	Circuito stampato
6	1	CS5	CSSPLL5PJ2K	Circuito stampato
7	2	C2,C1	4p7	Cond. ceramico p 5mm
8	10	PD1,PD2,PD3,PD4,PD5,PD6, PD7,PD8,PD9,PD10	PAD	Non è un componente
9	12	R1,R2,R3,R6,R7,R8,R11, R12,R13,R16,R17,R18	330R	Res. 2W
10	8	R4,R5,R9,R10,R14,R15,R19, R20	47R	Res. 2W
11	8	TL1,TL3,TL4,TL6,TL8,TL10, TL11,TL13	Z50	Linea strip CS
12	4	TL2,TL5,TL9,TL12	TL_Level2	Linea strip CS
13	1	TL7	TL_Level1	Linea strip CS

SLMTPRTPJ4K2

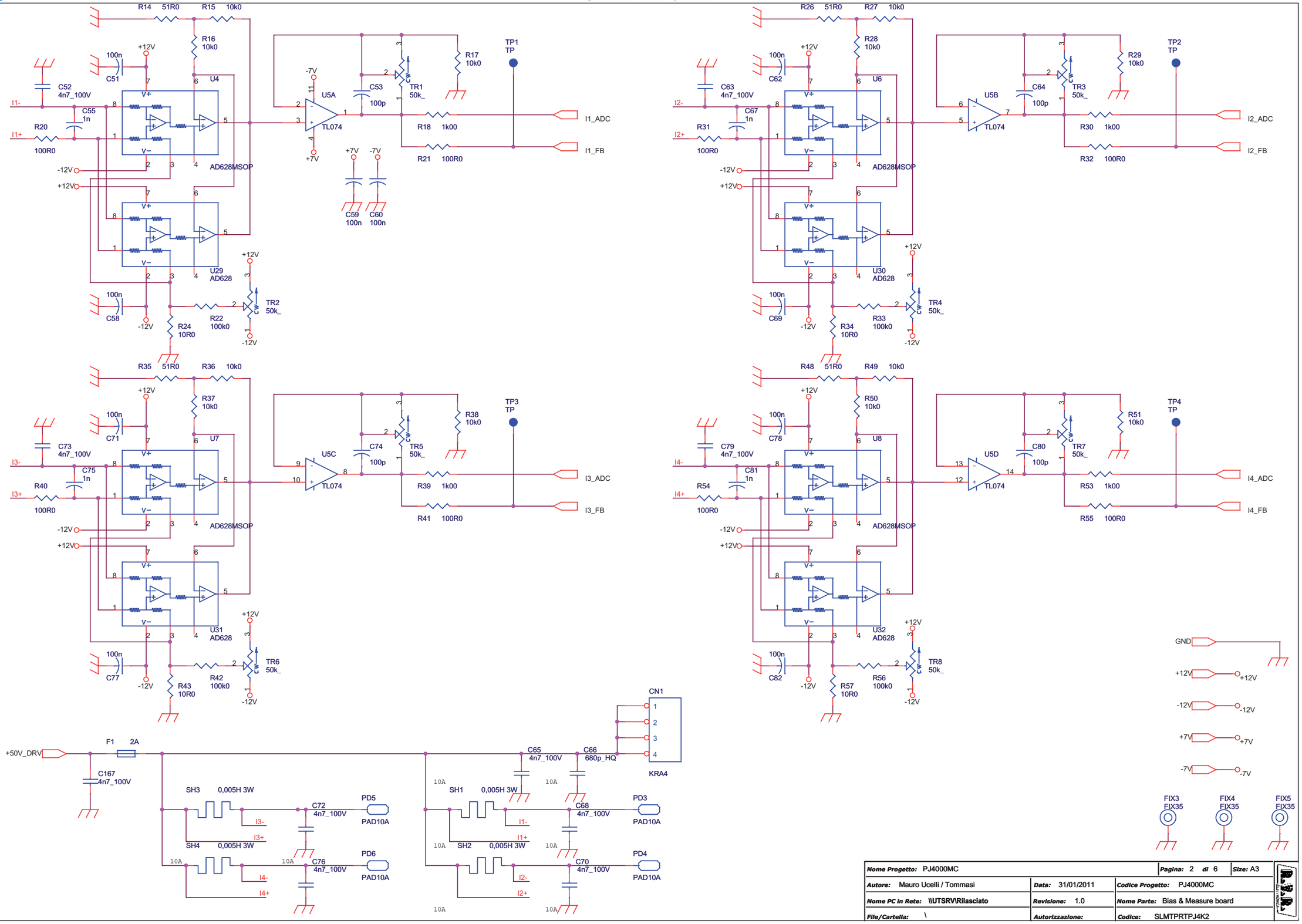


SLMTPRTPJ4K2

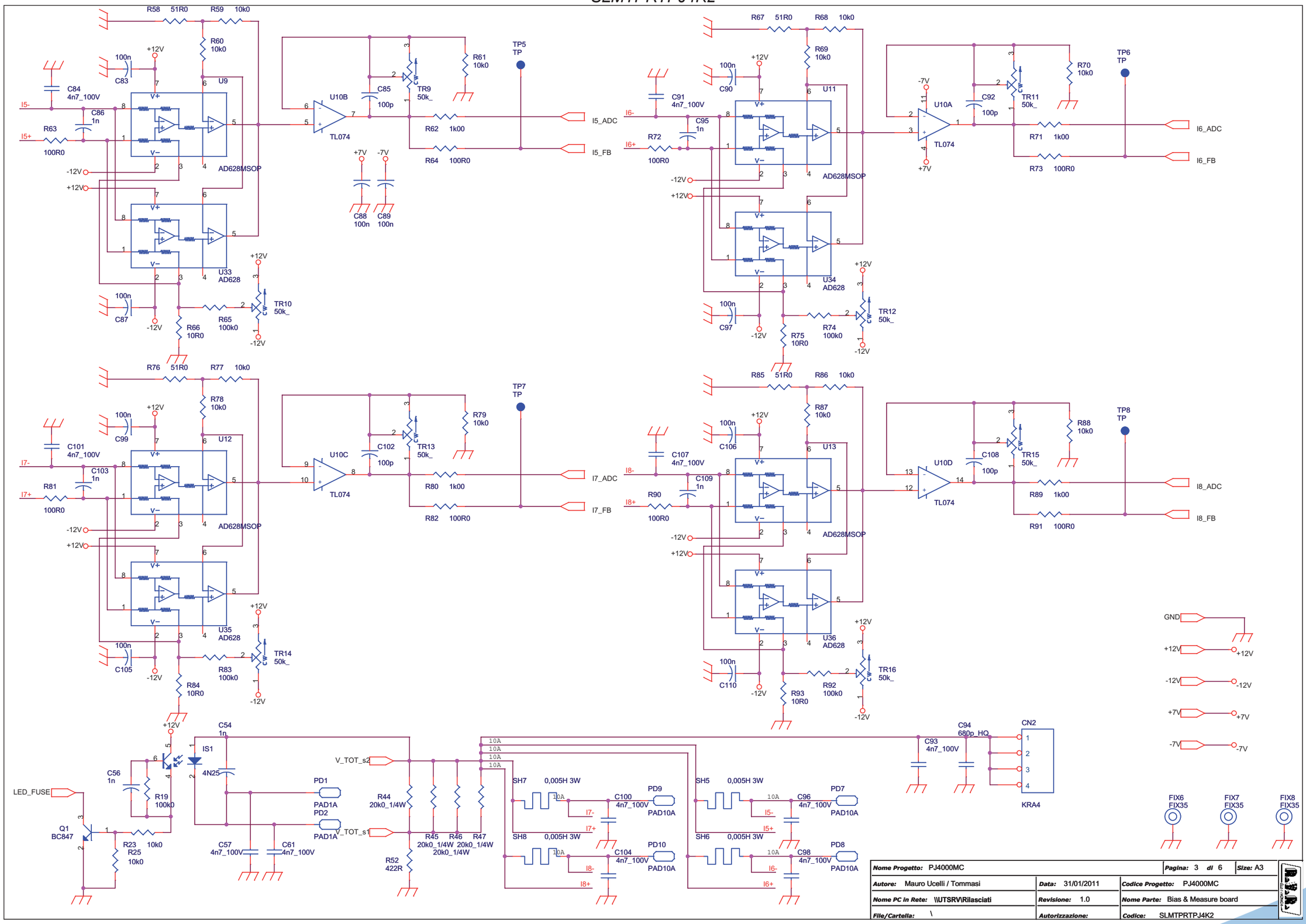


Nome Progetto: PJ4000MC			**Pagina:** 1 **di** 6 **Size:** A3
Autore: Mauro Ucelli / Tommasi	**Data:** 31/01/2011	**Codice Progetto:** PJ4000MC	
Nome PC in Rete: \\RVRUT\Rilasciati	**Revisione:** 1.0	**Nome Parte:** Bias & Measure board	
File/Cartella: \	**Autorizzazione:**	**Codice:** SLMTPRTPJ4K2	

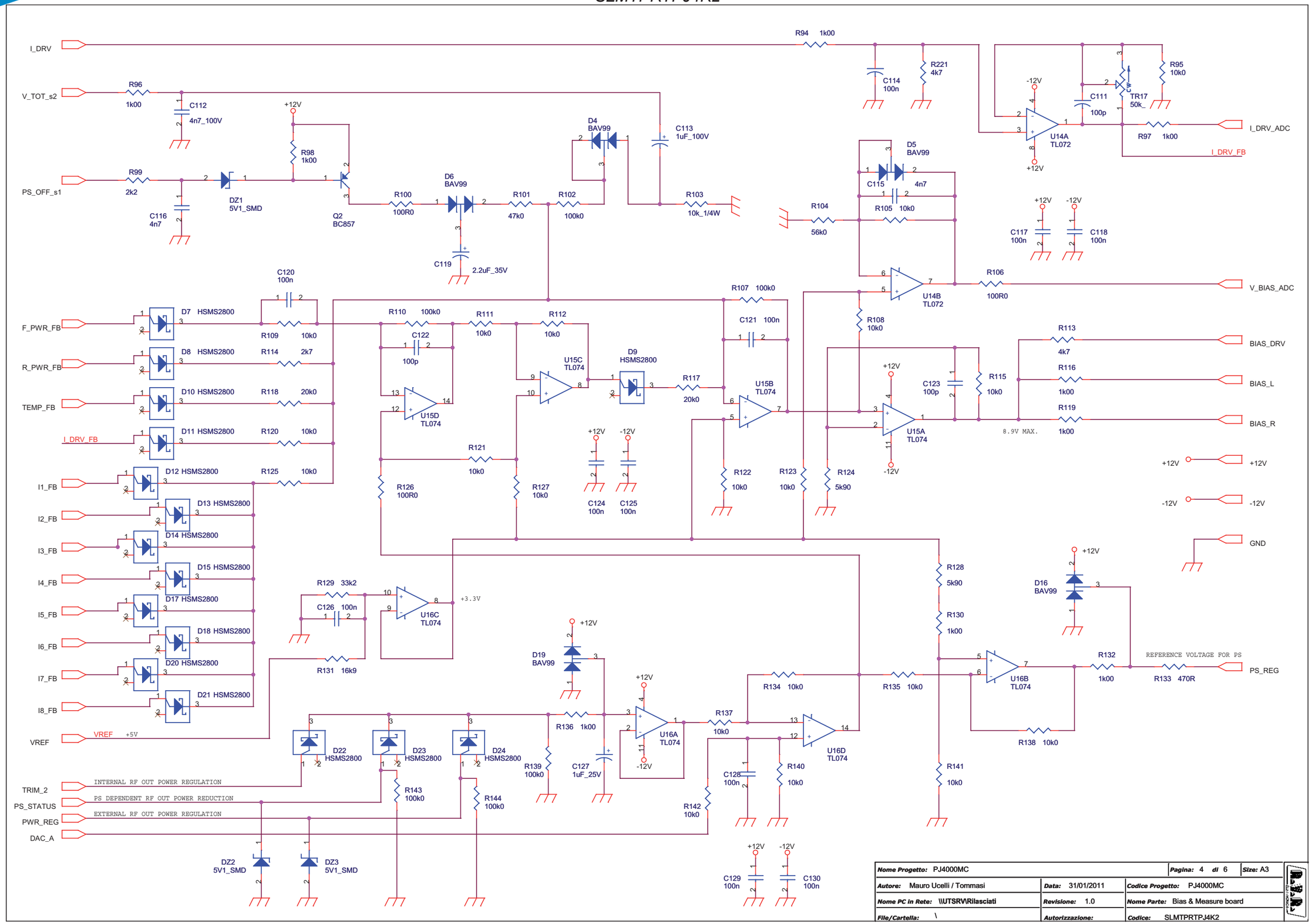
SLMTPRTPJ4K2



SLMTPRTPJ4K2

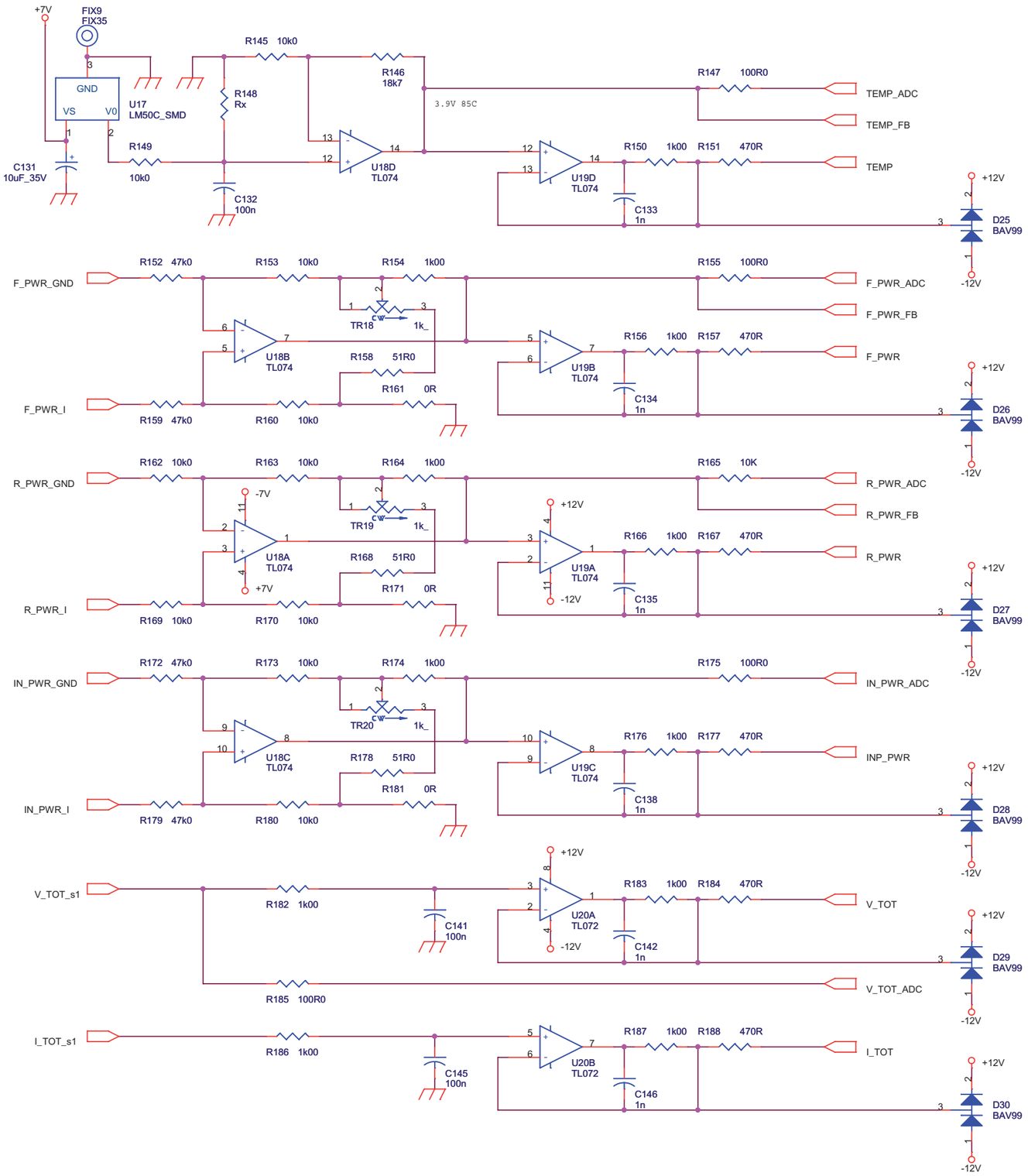


SLMTPRTPJ4K2



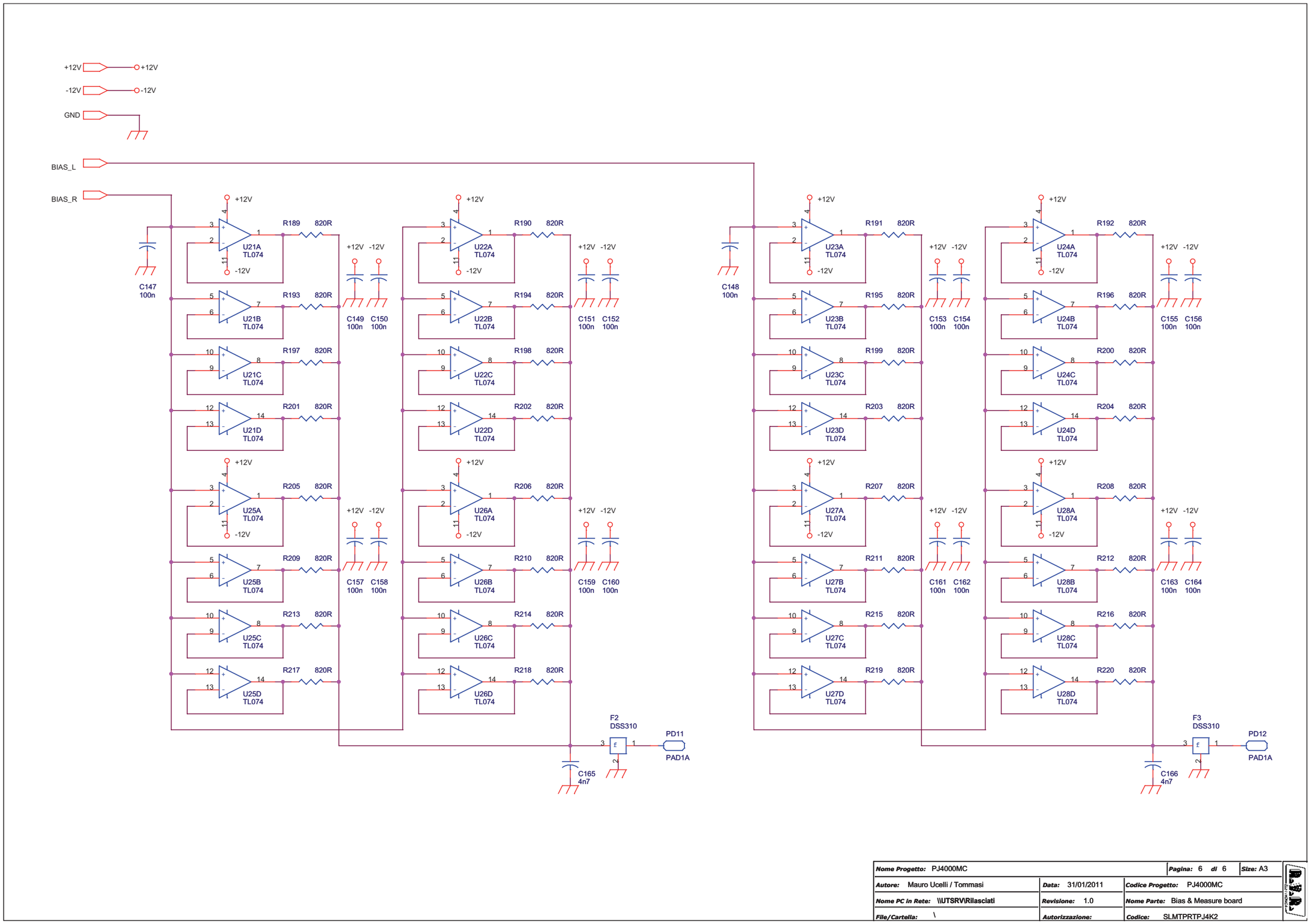
Nome Progetto: PJ4000MC			**Pagina:** 4 di 6 **Size:** A3
Autore: Mauro Ucelli / Tommasi	**Data:** 31/01/2011	**Codice Progetto:** PJ4000MC	
Nome PC in Rete: \\UTSRV\Rilasciati	**Revisione:** 1.0	**Nome Parte:** Bias & Measure board	
File/Cartella: \	**Autorizzazione:**	**Codice:** SLMTPRTPJ4K2	

SLMTPRTPJ4K2



Nome Progetto: PJ4000MC			**Pagina:** 5 **di** 6 **Size:** A3
Autore: Mauro Ucelli / Tommasi	**Data:** 31/01/2011	**Codice Progetto:** PJ4000MC	
Nome PC in Rete: \\UTSRV\Rilasciati	**Revisione:** 1.0	**Nome Parte:** Bias & Measure board	
File/Cartella: \	**Autorizzazione:**	**Codice:** SLMTPRTPJ4K2	

SLMTPRTPJ4K2

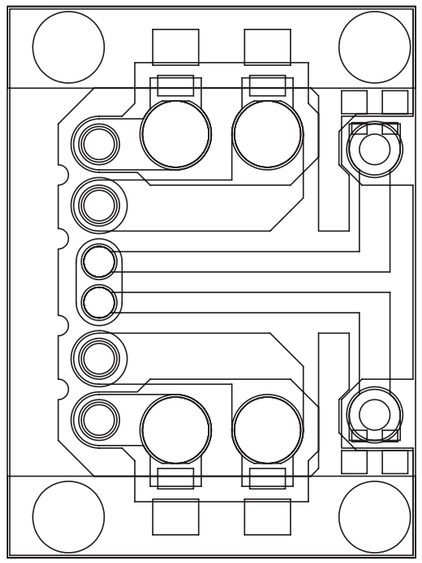


SLMTPRTPJ4K2

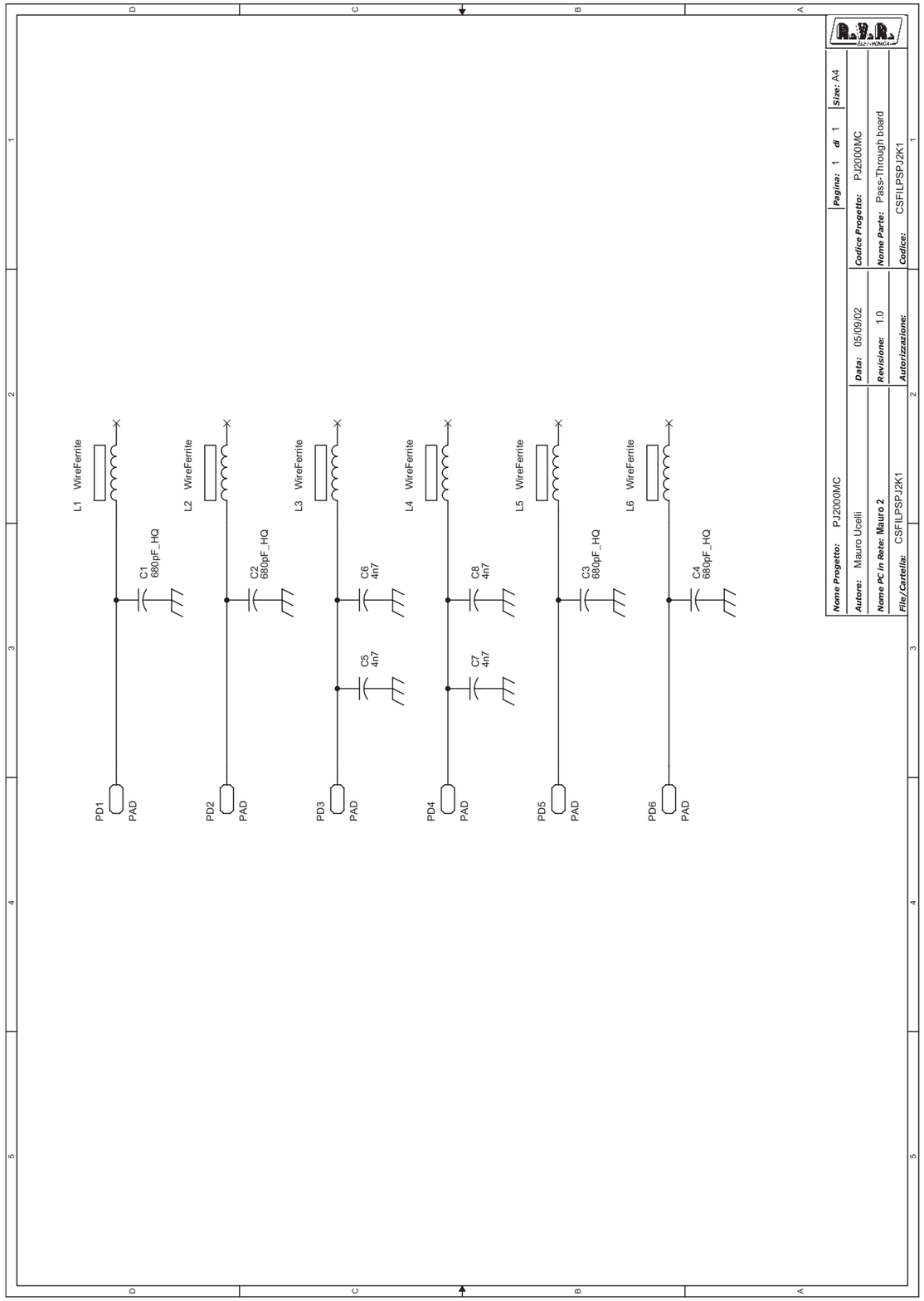
Bias & Measure board Revised: 31/01/2011
SLMTPRTPJ4K2 Revision: 1.0
PJ4000MC
PJ4000MC
Mauro Ucelli / Tommasi

Item	Quantity	Reference	Part	RVR Code
1	2	CN1, CN2	KRA4	FISCAVKIT113 (PZ1) + BLCFCAV113 (PZ2)
2	40	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C28, C29, C30, C31, C36, C37, C38, C39, C40, C41, C115, C116, C165, C166	4n7	CCC085472KXC
3	25	C27, C33, C34, C52, C57, C61, C63, C65, C68, C70, C72, C73, C76, C79, C84, C91, C93, C96, C98, C100, C101, C104, C107, C112, C167	4n7_100V	CMS472MC101
4	2	C32, C35	100p_50V	CKM101KC600C
5	2	C42, C46	1000uF_35V	CEA108MC350V
6	3	C43, C47, C131	10uF_35V	CES106B350
7	5	C44, C45, C48, C49, C50	100uF_35V	CES107E250
8	58	C51, C58, C59, C60, C62, C69, C71, C77, C78, C82, C83, C87, C88, C89, C90, C97, C99, C105, C106, C110, C114, C117, C118, C120, C121, C124, C125, C126, C128, C129, C130, C132, C136, C137, C139, C140, C141, C143, C144, C145, C147, C148, C149, C150, C151, C152, C153, C154, C155, C156, C157, C158, C159, C160, C161, C162, C163, C164	100n	CCC085104KXC
9	11	C53, C64, C74, C80, C85, C92, C102, C108, C111, C122, C123	100p	CCC085101JCC
10	16	C54, C55, C56, C67, C75, C81, C86, C95, C103, C109, C133, C134, C135, C138, C142, C146	1n	CCC085102JNC
11	2	C66, C94	680p_HQ	CHQ681JA101
12	1	C113	1uF_100V	CEA105MA500V
13	1	C119	2.2uF_35V	CES225A500
14	1	C127	1uF_25V	CES105A500
15	3	DZ1, DZ2, DZ3	5V1_SMD	DIZ5V1MINI
16	1	D1	WL04	PNRWL02
17	2	D2, D3	5V1_1W	DIZ5V11W
18	11	D4, D5, D6, D16, D19, D25, D26, D27, D28, D29, D30	BAV99	DISBAV99
19	16	D7, D8, D9, D10, D11, D12, D13, D14, D15, D17, D18, D20, D21, D22, D23, D24	HSMS2800	DISHSMS2800
20	11	FIX1, FIX2, FIX3, FIX4, FIX5, FIX6, FIX7, FIX8, FIX9, FIX10, FIX11	FIX35	
21	1	F1	2A	PFS5X20CS+FUS5X20RP2+COPPFS5X20CS
22	2	F2, F3	DSS310	FILTRO ANTIDIST.EMI MURATA 22NF 50V
23	1	IS1	4N25	LED4N26
24	1	JP1	STRIP_10+10	CNTSTF10DDB
25	1	JP2	STRIP_13+13	CNTSTF13DDB
26	1	JP3	LUMBERG_6PV	CNT25MSF6
27	1	JP4	CN16_FLAT	CNTMCS16A
28	1	JP5	CN40_FLAT	CNTMCS40A
29	1	JP6	CN10_FLAT	CNTMCS10A
30	4	PD1, PD2, PD11, PD12	PAD1A	
31	8	PD3, PD4, PD5, PD6, PD7, PD8, PD9, PD10	PAD10A	
32	1	Q1	BC847	TRNBC847
33	1	Q2	BC857	TRNBC857
34	36	R1, R2, R3, R4, R6, R7, R8, R9, R18, R30, R39, R53, R62, R71, R80, R89, R94, R97, R132, R150, R154, R156, R164, R166, R174, R176, R182, R183, R186, R187,R96, R98, R116, R119, R130, R136	1k00	RCH085F0001K
35	24	R5, R20, R21, R31, R32, R40, R41, R54, R55, R63, R64, R72, R73, R81, R82, R90, R91, R147, R155, R175, R185,R100, R106, R126	100R0	RCH085F0100H
36	2	R10, R11	10_1/2W	RSC1/2J0010H
37	2	R12, R13	RXE110	FUSAUTRX110A
38	11	R14, R26, R35, R48, R58, R67, R76, R85, R158, R168, R178	51R0	RCH085F0051H
39	57	R15, R16, R17, R23, R25, R27, R28, R29, R36, R37, R38, R49, R50, R51, R59, R60, R61, R68, R69, R70, R77, R78, R79, R86, R87, R88, R95, R145, R149, R153, R160, R162, R163, R169, R170, R173, R180,R105, R108, R109, R111, R112, R115, R120, R121, R122, R123, R125, R127, R134, R135, R137, R138, R140, R141, R142,R165	10k0	RCH085F0010K
40	15	R19, R22, R33, R42, R56, R65, R74, R83, R92,R102, R107, R110, R139, R143, R144	100k0	RCH085F0100K
41	8	R24, R34, R43, R57, R66, R75, R84, R93	10R0	RCH085F0010H
42	4	R44, R45, R46, R47	20k0_1/4W	RSM1/4F0020K
43	1	R52	422R	RCH085F0422H
45	1	R99	2k2	RCH085F002K2
49	1	R103	10k_1/4W	RSM1/4F0010K
50	1	R104	56k0	RCH085F0056K
52	2	R113, R221	4k7	RCH085F004K7
53	1	R114	2k7	RCH085F002K7
54	2	R117, R118	20k0	RCH085F0020K
55	2	R124, R128	5k90	RCH085F005K9
56	1	R129	33k2	RCH085F0033K
57	1	R131	16k9	RCH085F016K9
58	7	R133, R151, R157, R167, R177, R184, R188	470R	RCH085F0470H
59	1	R146	18k7	RCH085F018K7
60	1	R148	Rx	NOTCONNECTED
61	5	R152, R159, R172, R179,R101	47k0	RCH085F0047K
62	3	R161, R171, R181	0R	RCH085F0000H
64	32	R189, R190, R191, R192, R193, R194, R195, R196, R197, R198, R199, R200, R201, R202, R203, R204, R205, R206, R207, R208, R209, R210, R211, R212, R213, R214, R215, R216, R217, R218, R219, R220	820R	RCH085J0825H
65	8	SH1, SH2, SH3, SH4, SH5, SH6, SH7, SH8	0,005H 3W	RSH03W0H005
66	8	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8	TP	PUNTESTPOINT
67	17	TR1, TR2, TR3, TR4, TR5, TR6, TR7, TR8, TR9, TR10, TR11, TR12, TR13, TR14, TR15, TR16, TR17	50k_	RVT3296WK050
68	3	TR18, TR19, TR20	1k	RVT3296WK001
69	1	U1	LM7812/TO220_90B	CIL7812P
70	1	U2	LM7912/TO220_90B	CIL7912PCIS
71	1	U3	LM7805/TO220_90B	CIL7805P
72	8	U4, U6, U7, U8, U9, U11, U12, U13	AD628MSOP	CILAD628MSOP
73	14	U5, U10, U15, U16, U18, U19, U21, U22, U23, U24, U25, U26, U27, U28	TL074	CILTL074SMD
74	2	U14, U20	TL072	CILTL072SMD
76	1	U17	LM50C_SMD	CILLM50C
77	8	U29, U30, U31, U32, U33, U34, U35, U36	AD628SO8	CILAD628SO8
78	1	CS1	CSMTPRTPJ2K3	CSMTPRTPJ2K3
79	1	Zoccolo x integrato a 6 pin		ZIN06TORNS

SLFILPSPJ2K1



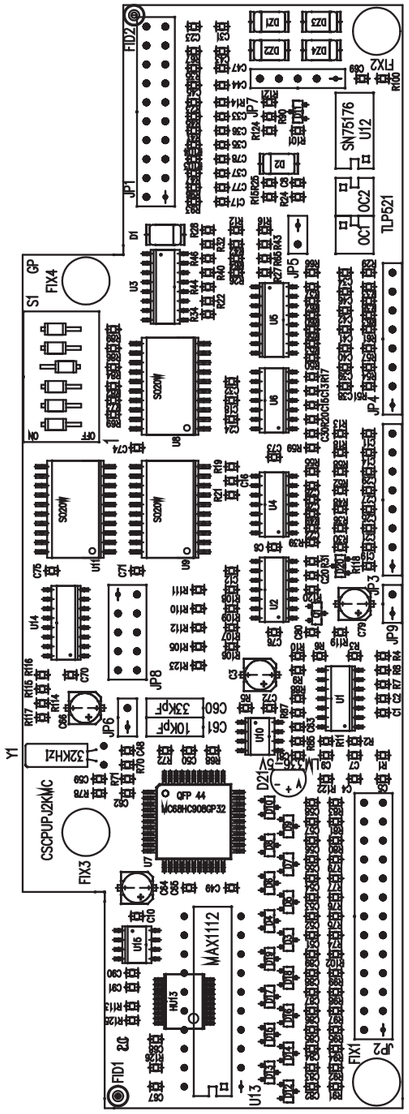
R.V.R. ELETTRONICA	NOME PROGETTO: PJ2000M-C			NOME PARTE: Pass-Through board			
	AUTORE: Mauro Ucelli		DATA: 05/09/2002	REVISIONE: 1.0	SCALA: 2:1	SIZE: A4	PAGINA: 1 DI 1
ARCHIVIAZIONE ELETTRONICA: "CARTELLA PROGETTI" SU "UTSRV"		CODICE PROGETTO: /		CODICE DISEGNO: SLFILPSPJ2K1			
MATERIALE: /		TRATTAMENTO: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



SLFILPSPJ2K1

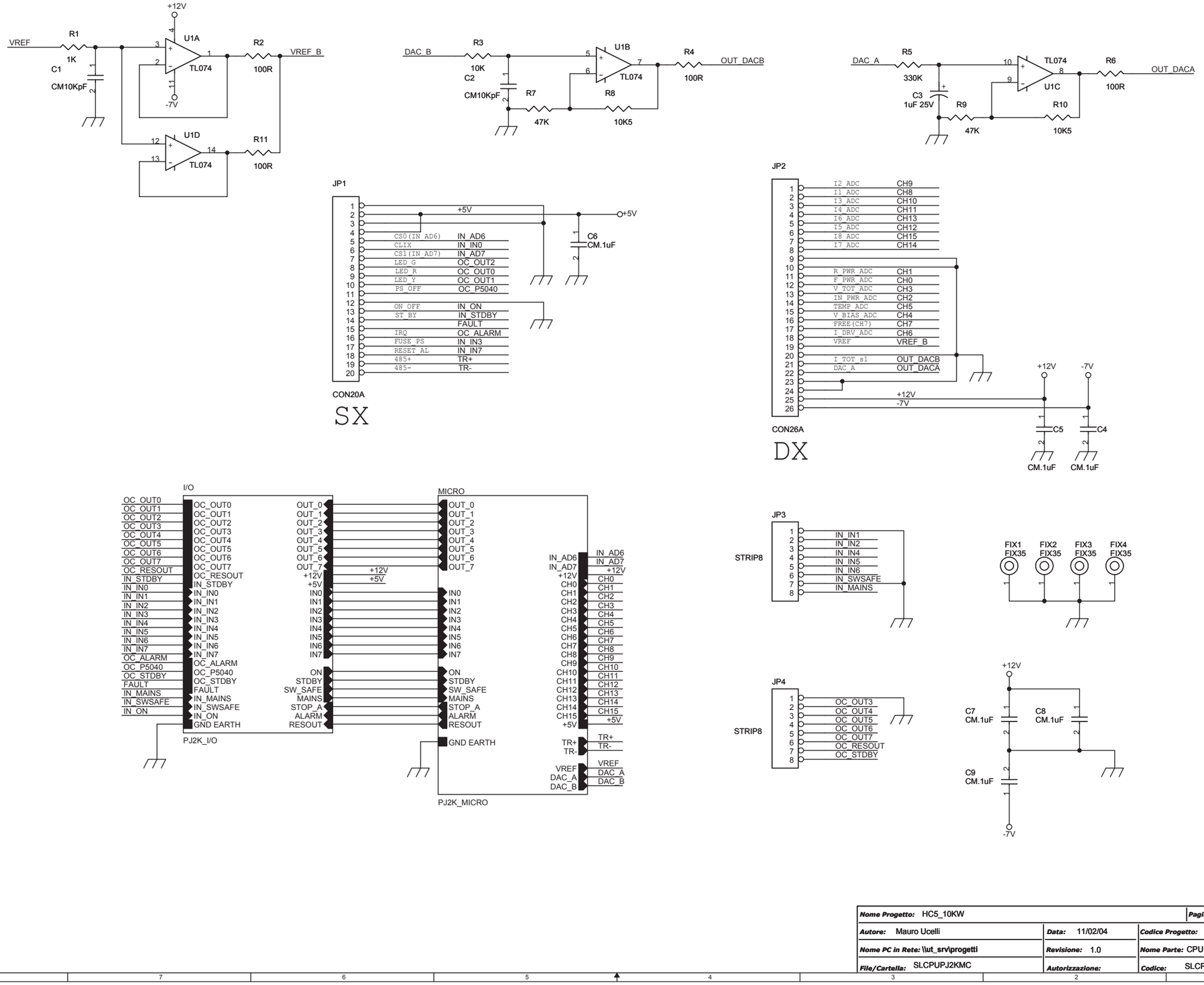
Pass-Through board
SLFILPSPJ2K1
Revision: 1.0
PJ2000MC
Mauro Ucelli
05/09/2002

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



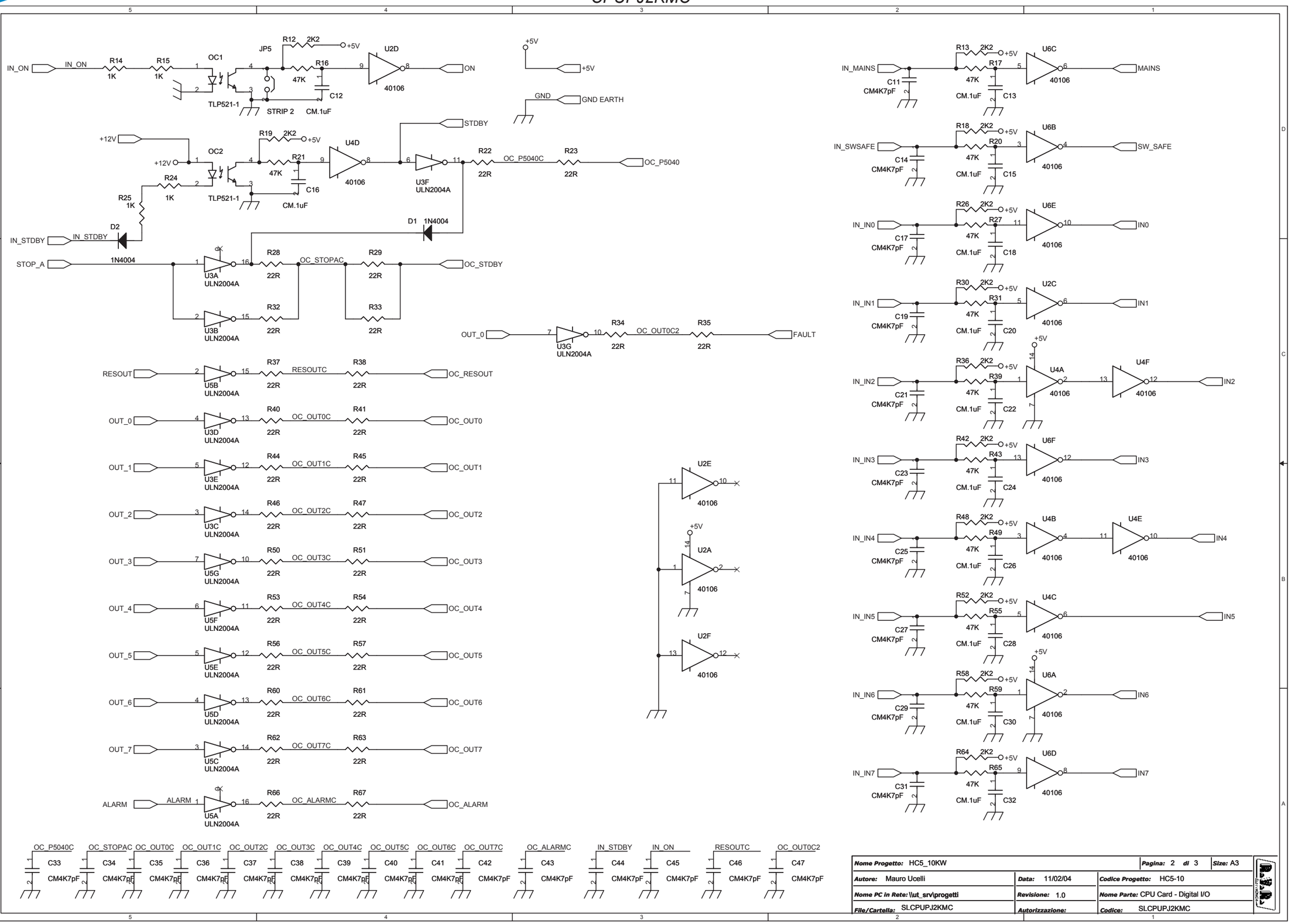
NOME PARTE:	Scheda CPU
DATA: 11/02/2004	REVISIONE: 1.0
SCALA: 1:1	SIZE: A4
PAGINA: 1 DI 1	
NOME PROGETTO:	HC5/10
AUTORE:	U.T. - Rev.: BERTI J.
CODICE PROGETTO: 014	CODICE DISEGNO: SLCPUPJ2KMC
ARCHIVIAZIONE ELETTRONICA: "CARTELLA PROGETTI" SU "UT_SRV"	
MATERIALE: /	TRATTAMENTO: /
PROFILO: /	STATO: ESECUTIVO

CPUPJ2KMC



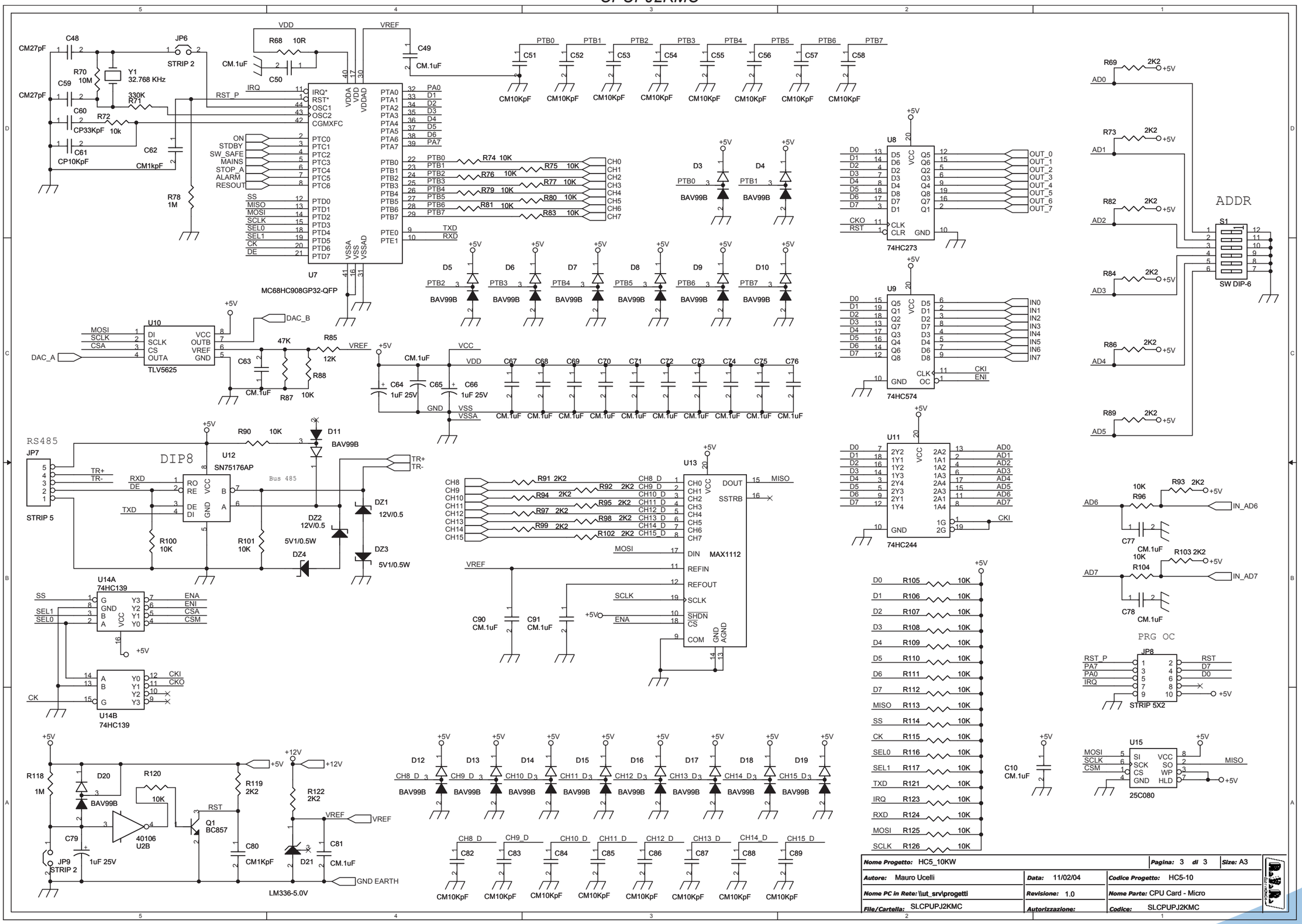
Nome Progetto: HC5_10KW		**Pagina:** 1 di 3	**Size:** A3
Autore: Mauro Ucelli	**Data:** 11/02/04	**Codice Progetto:** HC5-10	
Nome PC in Rete: \\ut_srv\progetti	**Revisione:** 1.0	**Nome Parte:** CPU Card - General Section	
File/Cartella: SLCPUPJ2KMC	**Autorizzazione:**	**Codice:** SLCPUPJ2KMC	

CPUPJ2KMC



Nome Progetto: HC5_10KW		**Pagina:** 2 di 3	**Size:** A3
Autore: Mauro Ucelli	**Data:** 11/02/04	**Codice Progetto:** HC5-10	
Nome PC in Rete: \\ut_srv\progetti	**Revisione:** 1.0	**Nome Parte:** CPU Card - Digital I/O	
File/Cartella: SLCPUPJ2KMC	**Autorizzazione:**	**Codice:** SLCPUPJ2KMC	

CPUPJ2KMC



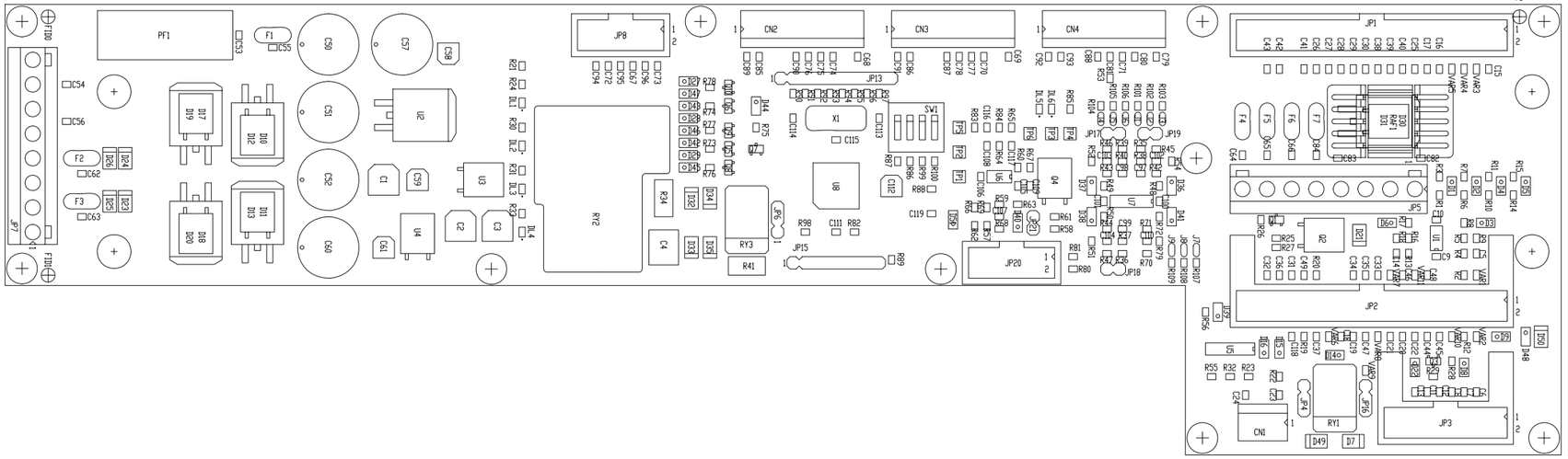
Nome Progetto: HC5_10KW		**Pagina:** 3 di 3	**Size:** A3
Autore: Mauro Ucelli	**Data:** 11/02/04	**Codice Progetto:** HC5-10	
Nome PC in Rete: \\ut_srv\progetti	**Revisione:** 1.0	**Nome Parte:** CPU Card - Micro	
File/Cartella: SLCPUPJ2KMC	**Autorizzazione:**	**Codice:** SLCPUPJ2KMC	

CPUPJ2KMC

General Revised: Thursday, May 29, 2003
CSCPUPJ2KMC Revision: 1

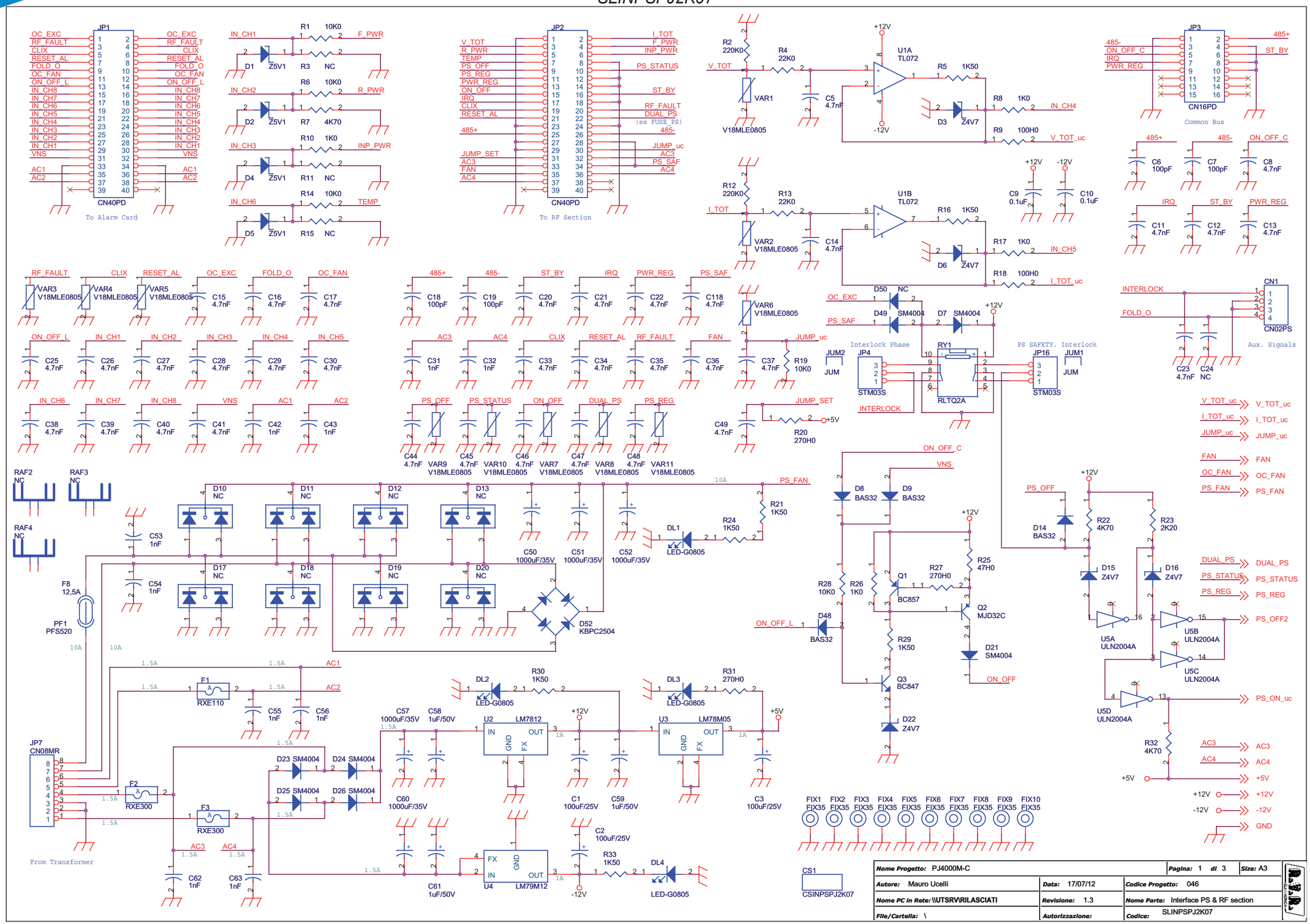
Item	Quantity	Reference	Part
1	18	C1, C2, C51, C52, C53, C54, C55, C56, C57, C58, C82, C83, C84, C85, C86, C87, C88, C89	CM10KpF
2	4	C3, C64, C66, C79	1uF 25V
3	38	C4, C5, C6, C7, C8, C9, C10, C12, C13, C15, C16, C18, C20, C22, C24, C26, C28, C30, C32, C49, C50, C63, C65, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C81, C90, C91	CM.1uF
4	25	C11, C14, C17, C19, C21, C23, C25, C27, C29, C31, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47	CM4K7pF
5	2	C48, C59	CM27pF
6	1	C60	CP33KpF
7	1	C61	CP10KpF
8	2	C62, C80	CM1KpF
9	2	DZ2, DZ1	12V/0.5
10	2	DZ4, DZ3	5V1/0.5W
11	2	D1, D2	1N4004
12	18	D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20	BAV99B
13	1	D21	LM336-5.0V
14	4	FIX1, FIX2, FIX3, FIX4	FIX35
15	1	JP1	CON20A
16	1	JP2	CON26A
17	2	JP4, JP3	STRIP8
18	3	JP5, JP6, JP9	STRIP 2
19	1	JP7	STRIP 5
20	1	JP8	STRIP 5X2
21	2	OC1, OC2	TLP521-1
22	1	Q1	BC857
23	5	R1, R14, R15, R24, R25	1K
24	4	R2, R4, R6, R11	100R
25	35	R3, R72, R74, R75, R76, R77, R79, R80, R81, R83, R88, R90, R96, R100, R101, R104, R105, R106, R107, R108, R109, R110, R111, R112, R113, R114, R115, R116, R117, R120, R121, R123, R124, R125, R126	10K
26	2	R71, R5	330K
27	15	R7, R9, R16, R17, R20, R21, R27, R31, R39, R43, R49, R55, R59, R65, R87	47K
28	2	R8, R10	10K5
29	30	R12, R13, R18, R19, R26, R30, R36, R42, R48, R52, R58, R64, R69, R73, R82, R84, R86, R89, R91, R92, R93, R94, R95, R97, R98, R99, R102, R103, R119, R122	2K2
30	28	R22, R23, R28, R29, R32, R33, R34, R35, R37, R38, R40, R41, R44, R45, R46, R47, R50, R51, R53, R54, R56, R57, R60, R61, R62, R63, R66, R67	22R
31	1	R68	10R
32	1	R70	10M
33	2	R118, R78	1M
34	1	R85	12K
35	1	S1	SW DIP-6
36	1	U1	TL074
37	3	U2, U4, U6	40106
38	2	U5, U3	ULN2004A
39	1	U7	MC68HC908GP32-QFP
40	1	U8	74HC273
41	1	U9	74HC574
42	1	U10	TLV5625
43	1	U11	74HC244
44	1	U12	SN75176AP
45	1	U13	MAX1112
46	1	U14	74HC139
47	1	U15	25C080
48	1	Y1	32.768 KHz

SLINPSPJ2K07

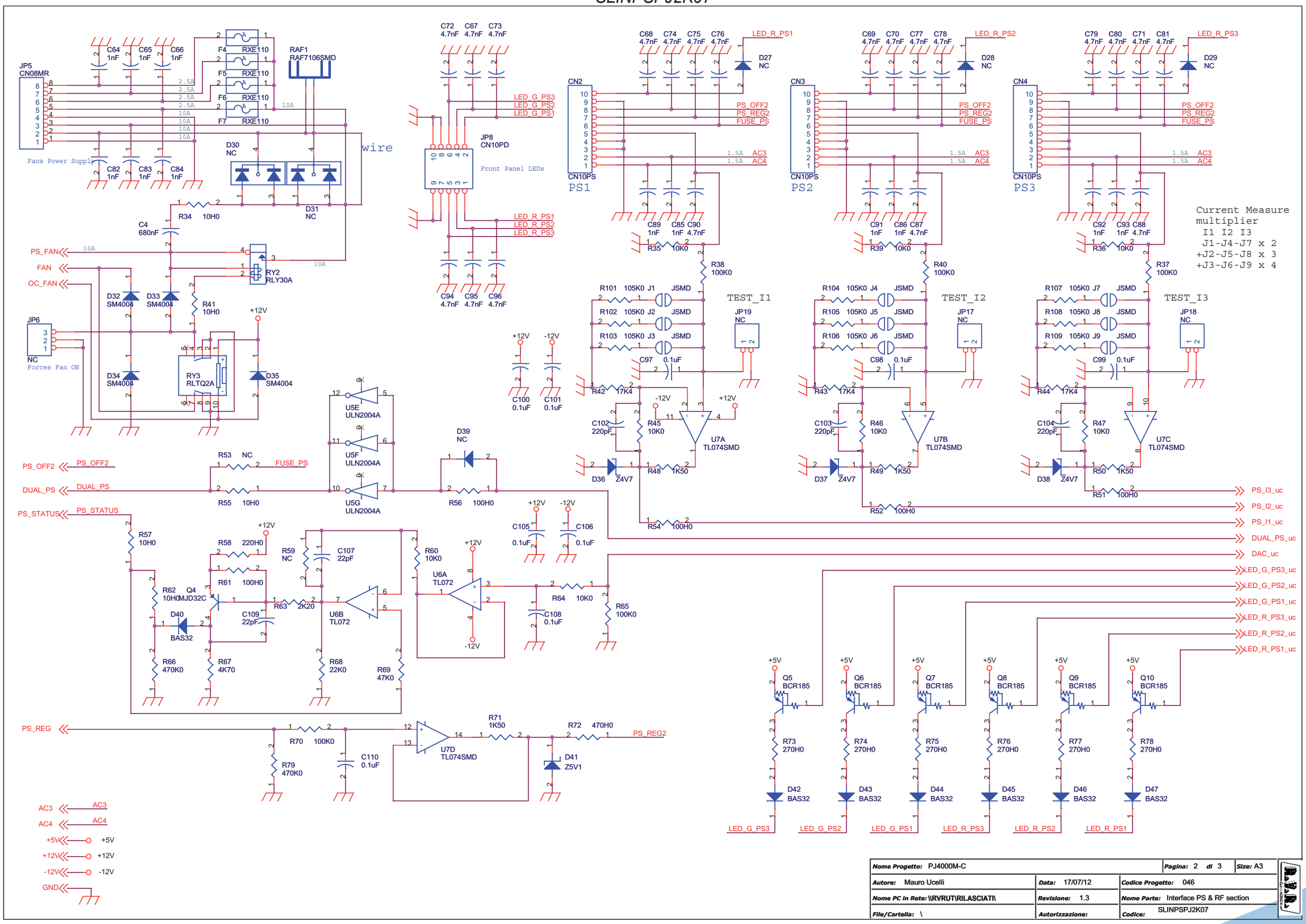


R.V.R. ELETTRONICA	NOME PROGETTO: PJ4000M-C			NOME PARTE: SCHEDA INTERFACCIA PS-RF			
	AUTORE: M. UCELLI		DATA: 15/05/2007	REVISIONE: 1.0	SCALA: 1:1	SIZE: A3	PAGINA: 1 DI 1
	ARCHIVIAZIONE ELETTRONICA: "CARTELLA RILASCIATI" SU "UTSRV"	CODICE PROGETTO: 046		CODICE DISEGNO: SLINPSPJ2K07			
	MATERIALE: <>	TRATTAMENTO: <>		PROFILO: <>		STATO: ESECUTIVO	

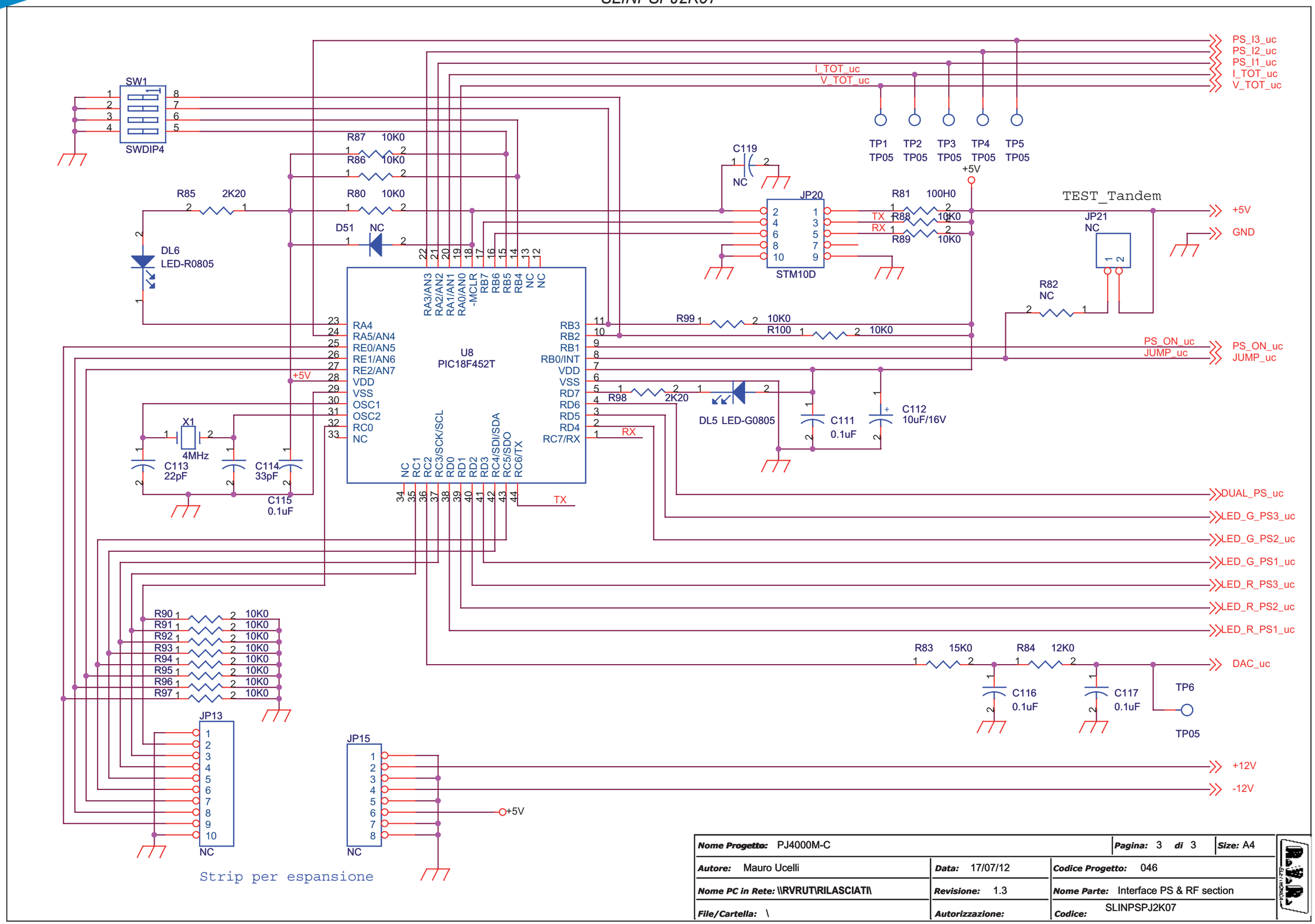
SLINPSPJ2K07



SLINPSPJ2K07



SLINPSPJ2K07



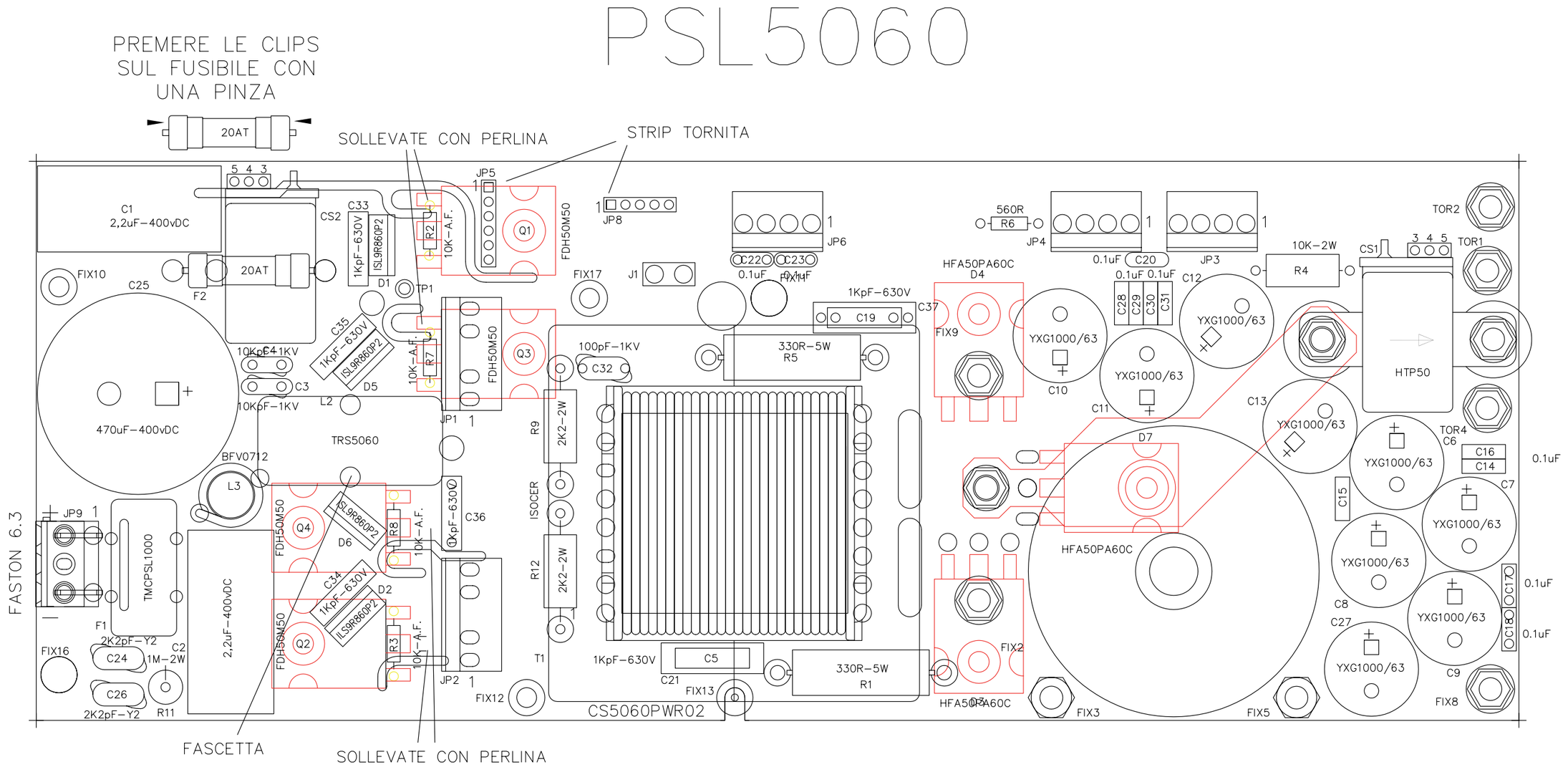
Nome Progetto: PJ4000M-C		**Pagina:** 3 **di** 3	**Size:** A4
Autore: Mauro Ucelli	**Data:** 17/07/12	**Codice Progetto:** 046	
Nome PC in Rete: \\RVRUT\RILASCIATI\	**Revisione:** 1.3	**Nome Parte:** Interface PS & RF section	
File/Cartella: \	**Autorizzazione:**	**Codice:** SLINPSPJ2K07	

SLINPSPJ2K07

Interface PS & RF section Revised: 17/07/12
SLINPSPJ2K07 Revision: 1.3
PJ4000M-C
046
Mauro Ucelli

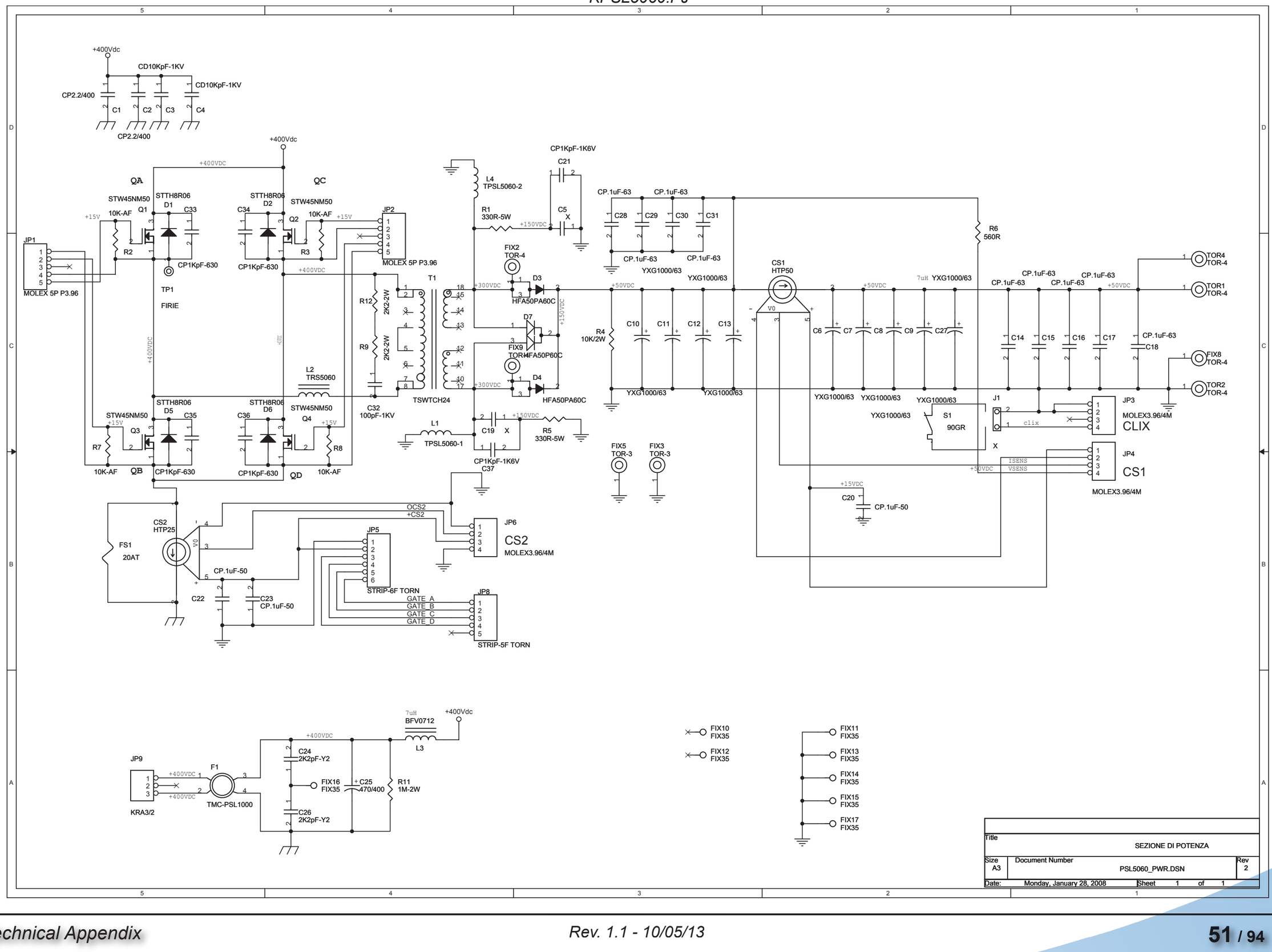
Item	Quantity	Reference	Part	Description
1	1	CN1	CN02PS	Connettore 2 poli Mascon p 2.5mm
2	3	CN2,CN3,CN4	CN10PS	Connettore 10 poli Mascon
3	1	CS1	CSINPSPJ2K07	Circuito stampato
4	3	C1,C2,C3	100uF/25V	Cond. Elett. SMD d. 6.3mm
5	1	C4	680nF	Cond. SMD 2824
6	56	C5,C8,C11,C12,C13,C14, C15,C16,C17,C20,C21,C22, C23,C25,C26,C27,C28,C29, C30,C33,C34,C35,C36,C37, C38,C39,C40,C41,C44,C45, C46,C47,C48,C49,C67,C68, C69,C70,C71,C72,C73,C74, C75,C76,C77,C78,C79,C80, C81,C87,C88,C90,C94,C95, C96,C118	4.7nF	Cond. SMD 0805
7	4	C6,C7,C18,C19	100pF	Cond. SMD 0805 COG
8	15	C9,C10,C97,C98,C99,C100, C101,C105,C106,C108,C110, C111,C115,C116,C117	0.1uF	Cond. SMD 0805
9	2	C24,C119	NC	Cond. SMD 0805
10	22	C31,C32,C42,C43,C53,C54, C55,C56,C62,C63,C64,C65, C66,C82,C83,C84,C85,C86, C89,C91,C92,C93	1nF	Cond. SMD 0805 COG
11	5	C50,C51,C52,C57,C60	1000uF/35V	Cond. Elettr. Dia 13 P5.08
12	3	C58,C59,C61	1uF/50V	Cond. Elett. SMD d. 4mm
13	3	C102,C103,C104	220pF	Cond. SMD 0805 COG
14	3	C107,C109,C113	22pF	Cond. SMD 0805 COG
15	1	C112	10uF/16V	Cond. Elett. SMD d. 4mm
16	1	C114	33pF	Cond. SMD 0805 COG
17	5	DL1,DL2,DL3,DL4,DL5	LED-G0805	LED SMD 0805
18	1	DL6	LED-R0805	LED SMD 0805
19	5	D1,D2,D4,D5,D41	Z5V1	MINIMELF SMD Zener Diode
20	8	D3,D6,D15,D16,D22,D36, D37,D38	Z4V7	MINIMELF SMD Zener Diode
21	11	D7,D21,D23,D24,D25,D26, D32,D33,D34,D35,D49	SM4004	Diodo SMD cont. SMA
22	11	D8,D9,D14,D40,D42,D43, D44,D45,D46,D47,D48	BAS32	MINIMELF SMD Diode
23	5	D10,D11,D17,D18,D30, D12,D13,D19,D20	NC	Doppio diodo shottky SMD
24	5	D52	KBPC2504	Ponte raddrizzatore 25A 400V
25	5	D27,D28,D29,D39,D51	NC	MINIMELF SMD Diode
26	1	D50	NC	Diodo SMD cont. SMA
27	10	FIX1,FIX2,FIX3,FIX4,FIX5, FIX6,FIX7,FIX8,FIX9, FIX10	FIX35	Foro fissaggio 3.5mm
28	5	F1,F4,F5,F6,F7	RXE110	Fusibile autorip. RXE p5mm
28A	2	F2,F3	RXE300	Fusibile autorip. RXE p5mm
29	1	F8	12,5A	Fusibile rapido 5x20mm
30	2	JP1,JP2	CN40PD	Conn. flat 40 poli
31	1	JP3	CN16PD	Connettore 16 poli Flat cs
32	2	JP4,JP16	STM03S	Strip maschio 3 pin
33	2	JP5,JP7	CN08MR	Conn. Phoenix p. 5mm 8 pin
34	1	JP6	NC	Strip maschio 3 pin
35	1	JP8	CN10PD	Connettore 10 poli Flat cs
36	1	JP13	NC	Strip femmina 10 pin
37	1	JP15	NC	Strip femmina 8 pin
38	4	JP17,JP18,JP19,JP21	NC	Strip maschio 2 pin
39	1	JP20	STM10D	Connettore 10 poli Flat cs
40	2	JUM1,JUM2	JUM	Ponticello jumper
41	9	J1,J2,J3,J4,J5,J6,J7,J8, J9	JSMD	Pad SMD a saldare
42	1	PF1	PFS520	Portafusibile 5x20 10A
43	1	Q1	BC857	Trans. PNP SOT23
44	2	Q2,Q4	MJD32C	Trans. PNP DPAK
45	1	Q3	BC847	Trans. NPN SOT23
46	6	Q5,Q6,Q7,Q8,Q9,Q10	BCR185	Trans./Res. PNP SOT23
47	4	RAF1,RAF2,RAF3,RAF4	NC	Dissipatore SMD Mod. 7106
48	2	RY1,RY3	RLTQ2A	Rele' TQ2
49	1	RY2	RLY30A	Rele' 30A NO
50	28	R1,R6,R14,R19,R28,R35, R36,R39,R45,R46,R47,R60, R64,R80,R86,R87,R88,R89, R90,R91,R92,R93,R94,R95, R96,R97,R99,R100	10K0	Res. SMD 0805
51	2	R2,R12	220K0	Res. SMD 0805
52	6	R3,R11,R15,R53,R59,R82	NC	Res. SMD 0805
53	3	R4,R13,R68	22K0	Res. SMD 0805
54	11	R5,R16,R21,R24,R29,R30, R33,R48,R49,R50,R71	1K50	Res. SMD 0805
55	4	R7,R22,R32,R67	4K70	Res. SMD 0805
56	4	R8,R10,R17,R26	1K0	Res. SMD 0805
57	8	R9,R18,R51,R52,R54,R56, R61,R81	100H0	Res. SMD 0805
58	9	R20,R27,R31,R73,R74,R75, R76,R77,R78	270H0	Res. SMD 0805
59	4	R23,R63,R85,R98	2K20	Res. SMD 0805
60	1	R25	47H0	Res. SMD 0805
61	2	R34,R41	10H0	Res. SMD 2512 5%
62	5	R37,R38,R40,R65,R70	100K0	Res. SMD 0805
63	3	R42,R43,R44	17K4	Res. SMD 0805
64	3	R55,R57,R62	10H0	Res. SMD 0805
65	1	R58	220H0	Res. SMD 0805
66	2	R66,R79	470K0	Res. SMD 0805
67	1	R69	47K0	Res. SMD 0805
68	1	R72	470H0	Res. SMD 0805
69	1	R83	15K0	Res. SMD 0805
70	1	R84	12K0	Res. SMD 0805
71	9	R101,R102,R103,R104,R105, R106,R107,R108,R109	105K0	Res. SMD 0805
72	1	SW1	SWDIP4	Dip switch 4 vie
73	6	TP1,TP2,TP3,TP4,TP5,TP6	NC	Test point
74	2	U1,U6	TL072	Dual Op. SMD SO8
75	1	U2	LM7812	Stabilizzatore SMD D2PAK
76	1	U3	LM78M05	Stabilizzatore SMD DPAK
77	1	U4	LM79M12	Stabilizzatore SMD DPAK
78	1	U5	ULN2004A	Seven Inv. Buffer OC
79	1	U7	TL074SMD	Quad Op. SMD SO14
80	1	U8	PIC18F452T	TQFP44 SMD Microprocessor
81	11	VAR1,VAR2,VAR3,VAR4,VAR5, VAR6,VAR7,VAR8,VAR9, VAR10,VAR11	V18MLE0805	ESD SMD protector
82	1	X1	4MHz	Quarzo SMD HC49SMD
83	1	D31	NC	Doppio diodo shottky SMD

KPSL5060.PJ



ARCHIVIO: X:\WORKDWG\		
TITLE	POWER PSL5060	
DOCUMENT NUMBER	PSL5060PWR_01.DWG	REV
DATE:	13 MARZO 2008	

KPSL5060.PJ



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

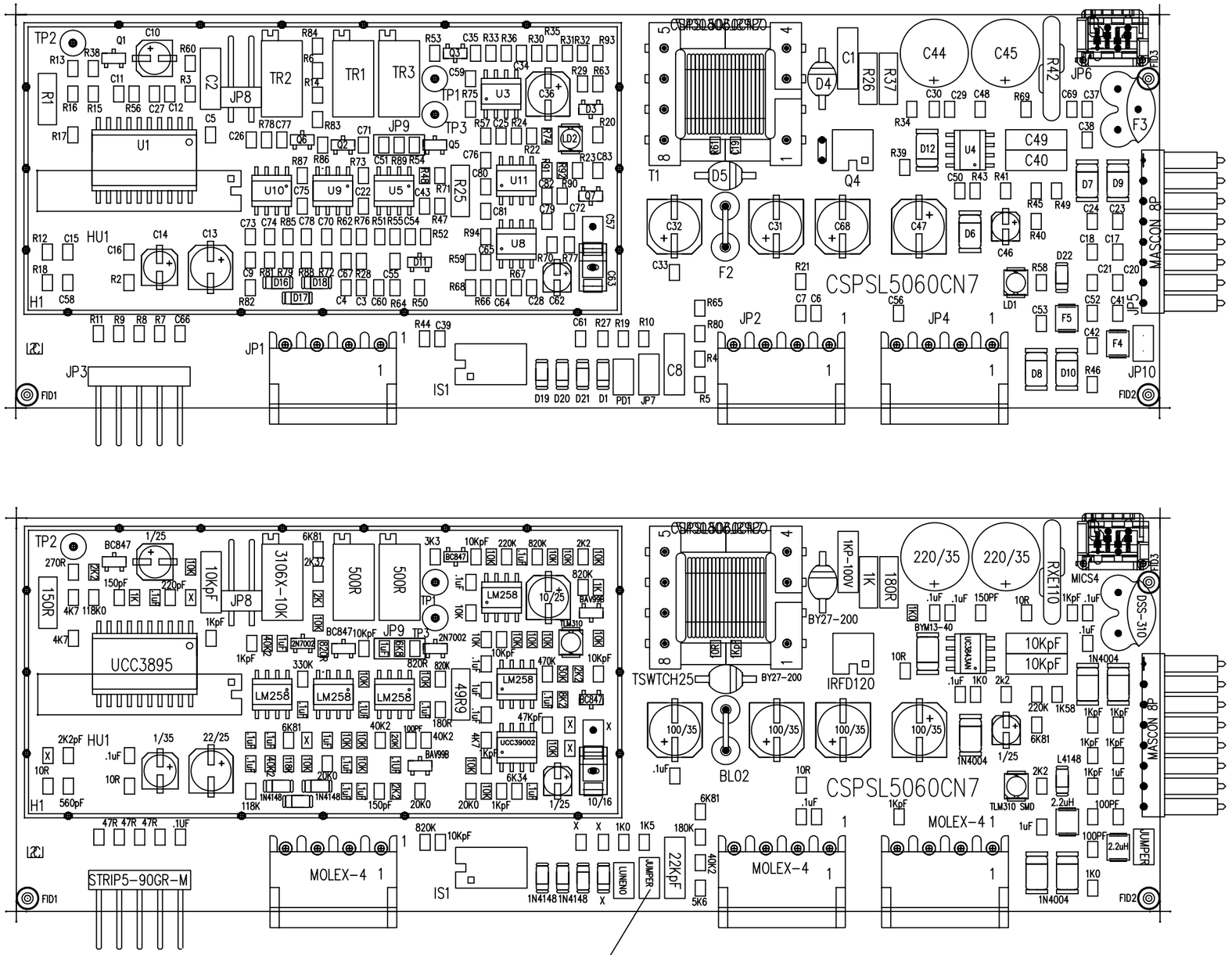
KPSL5060.PJ

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

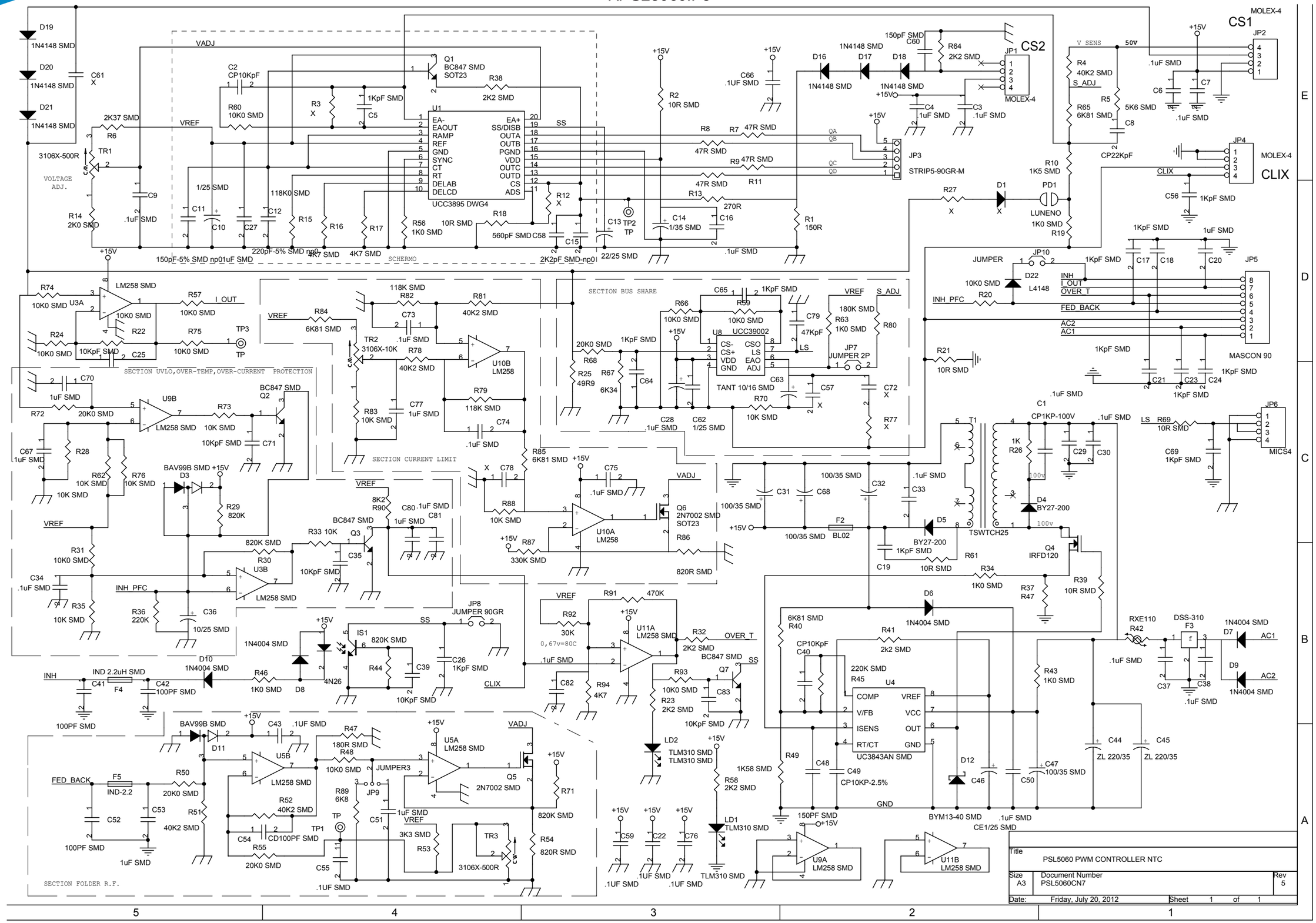
KPSL5060.PJ

PIANO DI MONTAGGIO PSL5060CNT7



ARCHIVIO:	X:\WORKDWG\
TITLE:	PIANO DI MONTAGGIO CNT PSL5060
DOCUMENT NUMBER	PSL5060CN7_MNT.DWG — REV
DATE:	28 FEBBRAIO 2012

KPSL5060.PJ

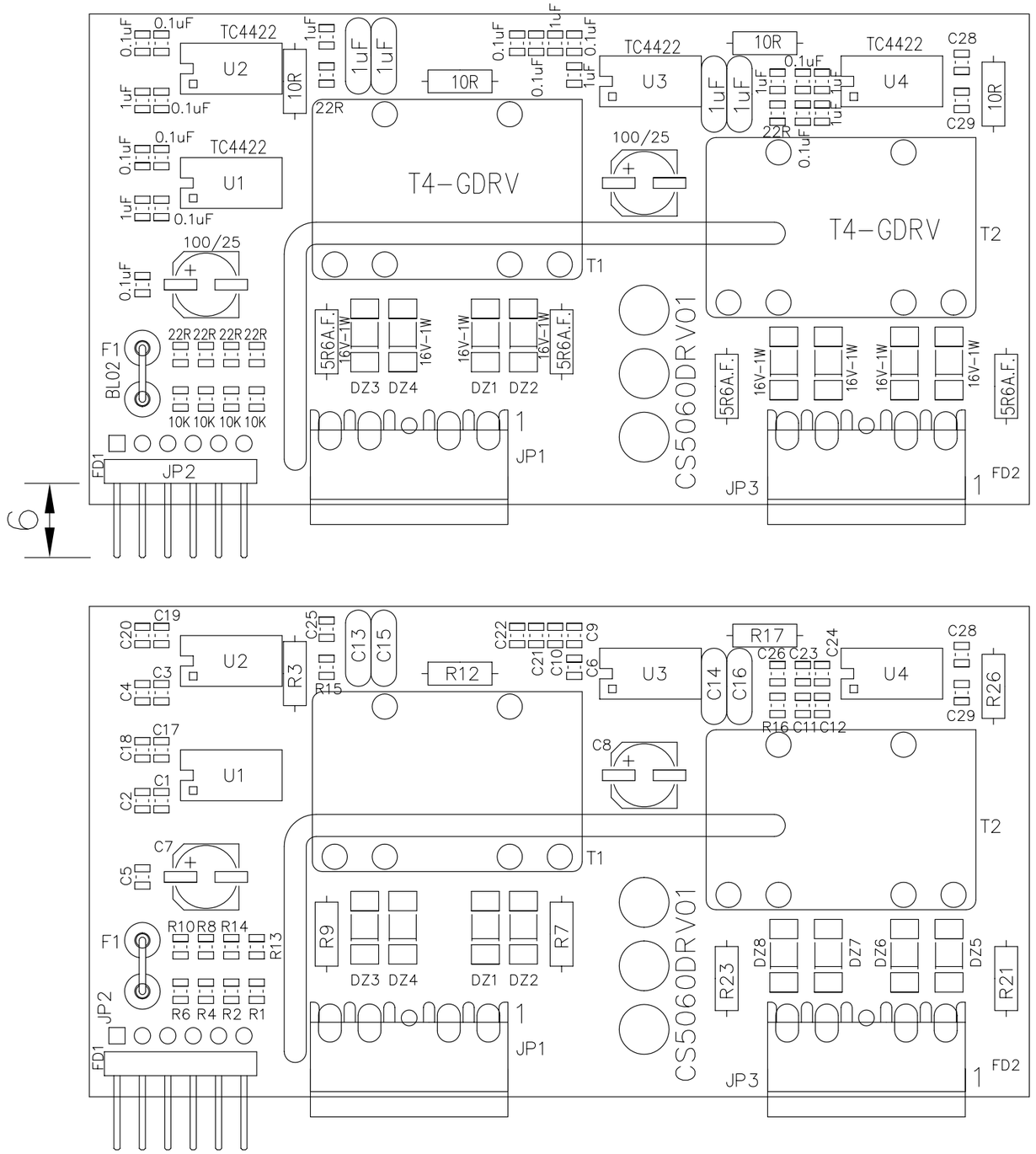

UCC3895 DWG4
UC3843AN SMD
UC39002
TSWTCH25
SECTION UVLO,OVER-TEMP,OVER-CURRENT PROTECTION
SECTION CURRENT LIMIT
SECTION BUS SHARE
SECTION FOLDER R.F.
SCHERMO
VOLTAGE ADJ.
MASCON 90
CLIX
MICS4
STRIP5-90GR-M
MOLEX-4
PSL5060 PWM CONTROLLER NTC
Document Number PSL5060CN7
Rev 5
Date: Friday, July 20, 2012
Sheet 1 of 1

PSL5060 PWM CONTROLLER NTC Revised: Friday, March 01, 2013
PSL5060CN7 Revision: 5

Item	Quantity	Reference	Part
1	1	C1	CP1KP-100V
2	2	C40C2	CP10KpF
3	27	C3C4C6C7C9C16C22C27C28C29C30C33C34C37C38C43C50C55C59C66C67C73C74C75C 76C81C82	.1uF SMD
4	12	C5C17C18C19C21C23C24C26C56C64C65C69	1KpF SMD
5	1	C8	CP22KpF
6	2	C62C10	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	6	C20C51C53C70C77C80	1uF SMD
13	5	C25C35C39C71C83	10KpF SMD
14	4	C31C32C47C68	100/35 SMD
15	1	C36	10/25 SMD
16	3	C41C42C52	100PF SMD
17	2	C44C45	ZL 220/35
18	1	C46	CE1/25 SMD
19	2	C60C48	150pF SMD
20	1	C49	CP10KP-2.5%
21	1	C54	CD100PF SMD
22	9	D1R3R12R27C57C61C72R77C78	X
23	1	C58	560pF SMD
24	1	C63	TANT 10/16 SMD
25	1	C79	47KpF
26	2	D11D3	BAV99B SMD
27	2	D5D4	BY27-200
28	5	D6D7D8D9D10	1N4004 SMD
29	1	D12	BYM13-40 SMD
30	6	D16D17D18D19D20D21	1N4148 SMD
31	1	D22	L4148
32	1	F2	BL02
33	1	F3	DSS-310
34	1	F4	IND 2.2uH SMD
35	1	F5	IND-2.2
36	1	IS1	4N26
37	3	JP1JP2JP4	MOLEX-4
38	1	JP3	STRIP5-90GR-M
39	1	JP5	MASCON 90
40	1	JP6	MICS4
41	1	JP7	JUMPER 2P
42	1	JP8	JUMPER 90GR
43	1	JP9	JUMPER3
44	1	JP10	JUMPER
45	2	LD1LD2	TLM310 SMD
46	1	PD1	LUNENO
47	4	Q1Q2Q3Q7	BC847 SMD
48	1	Q4	IRFD120
49	2	Q5Q6	2N7002 SMD
50	1	R1	150R
51	6	R2R18R21R39R61R69	10R SMD
52	5	R4R51R52R78R81	40K2 SMD
53	1	R5	5K6 SMD
54	1	R6	2K37 SMD
55	4	R7R8R9R11	47R SMD
56	1	R10	1K5 SMD
57	1	R13	270R
58	1	R14	2K0 SMD
59	1	R15	118K0 SMD
60	2	R17R16	4K7 SMD
61	6	R19R34R43R46R56R63	1K0 SMD
62	12	R20R22R24R31R48R57R59R60R66R74R75R93	10K0 SMD
63	6	R23R32R38R41R58R64	2K2 SMD
64	1	R25	49R9
65	1	R26	1K
66	8	R28R35R62R70R73R76R83R88	10K SMD
67	1	R29	820K
68	3	R30R44R71	820K SMD
69	1	R33	10K
70	1	R36	220K
71	1	R37	R47
72	4	R40R65R84R85	6K81 SMD
73	1	R42	RXE110
74	1	R45	220K SMD
75	1	R47	180R SMD
76	1	R49	1K58 SMD
77	4	R50R55R68R72	20K0 SMD
78	1	R53	3K3 SMD
79	2	R86R54	820R SMD
80	1	R67	6K34
81	2	R82R79	118K SMD
82	1	R80	180K SMD
83	1	R87	330K SMD
84	1	R89	6K8
85	1	R90	8K2
86	1	R91	470K
87	1	R92	30K
88	1	R94	4K7
89	3	TP1TP2TP3	TP
90	2	TR3TR1	3106X-500R
91	1	TR2	3106X-10K
92	1	T1	TSWTCH25
93	1	U1	UCC3895 DWG4
94	4	U3U5U9U11	LM258 SMD
95	1	U4	UC3843AN SMD
96	1	U8	UCC39002
97	1	U10	LM258

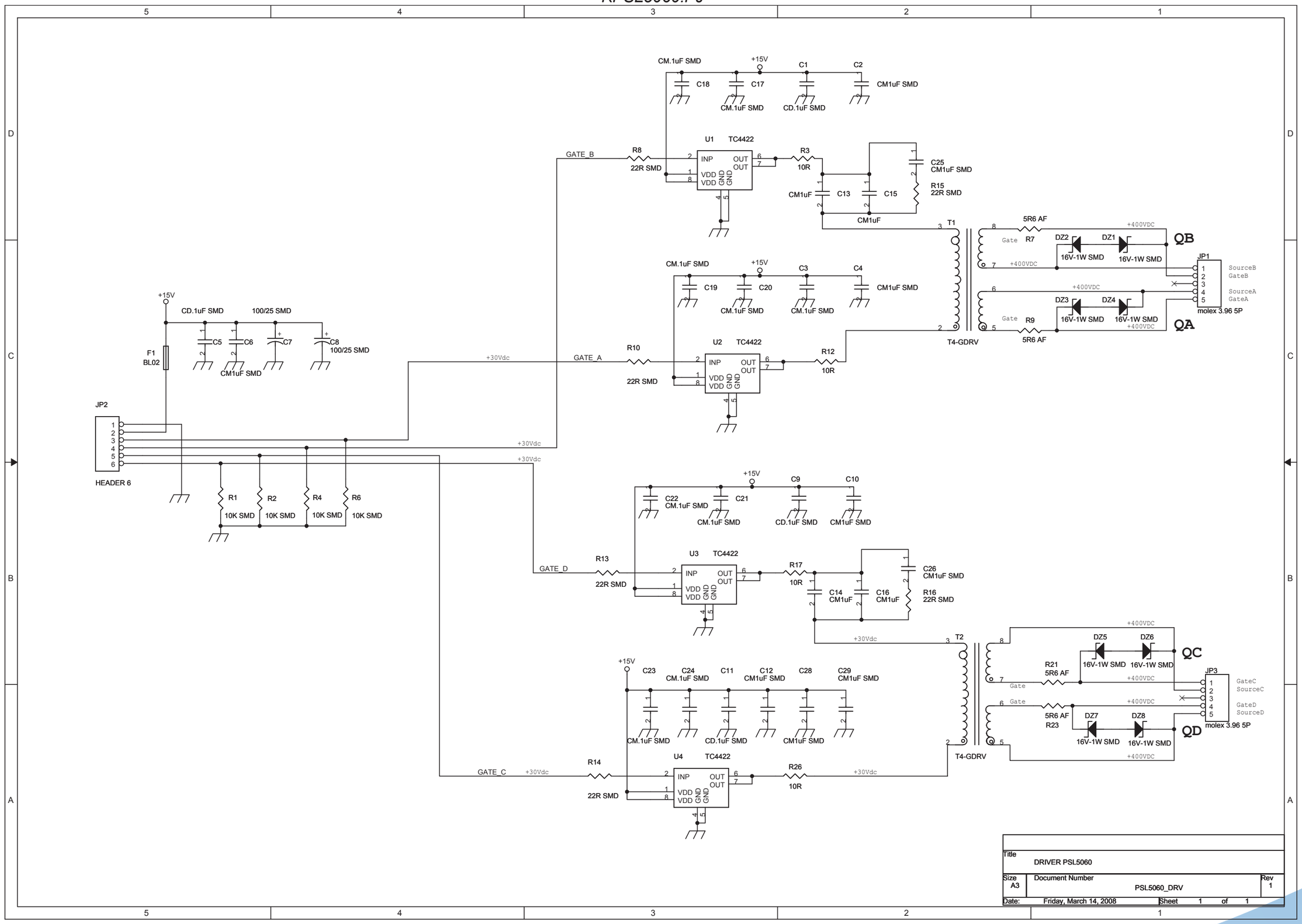
KPSL5060.PJ

PIANO DI MONTAGGIO PSL5060DRV01



ARCHIVIO: X:\WORKDWG\		
TITLE	PSL5060DRV	
DOCUMENT NUMBER	PSL5060DRV.DWG	REV 1
DATE:	11 APRILE 2008	

KPSL5060.PJ


CM.1uF SMD
+15V
C1
C2
C18
C17
CM1uF SMD
CM.1uF SMD
CD.1uF SMD
U1 TC4422
GATE_B
R8
22R SMD
INP
OUT
VDD
GND
R3
10R
C25
CM1uF SMD
R15
22R SMD
CM1uF
C13
C15
T1
5R6 AF
Gate
R7
DZ2
DZ1
16V-1W SMD
+400VDC
QB
JP1
SourceB
GateB
SourceA
GateA
molex 3.96 5P
C19
C20
C3
C4
U2 TC4422
R10
R12
R9
QA
T4-GDRV
+15V
CD.1uF SMD
100/25 SMD
C5
C6
C7
C8
F1
BL02
CM1uF SMD
+30Vdc
GATE_A
JP2
HEADER 6
R1
R2
R4
R6
10K SMD
C22
C21
C9
C10
U3 TC4422
GATE_D
R13
R17
C26
CM1uF SMD
R16
22R SMD
C14
C16
T2
QC
QD
R21
R23
JP3
GateC
SourceC
GateD
SourceD
C23
C24
C11
C12
C28
C29
U4 TC4422
GATE_C
R14
R26
Title
DRIVER PSL5060
Size
A3
Document Number
PSL5060_DRV
Rev
1
Date:
Friday, March 14, 2008
Sheet 1 of 1

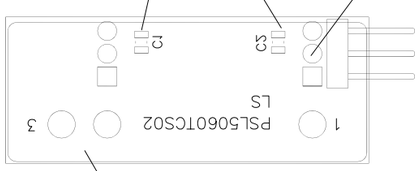
DRIVER PSL5060 Revised: Friday, March 14, 2008
PSL5060_DRV Revision: 1

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

KPSL5060.PJ

SENSORE DI CORRENTE PSL5060

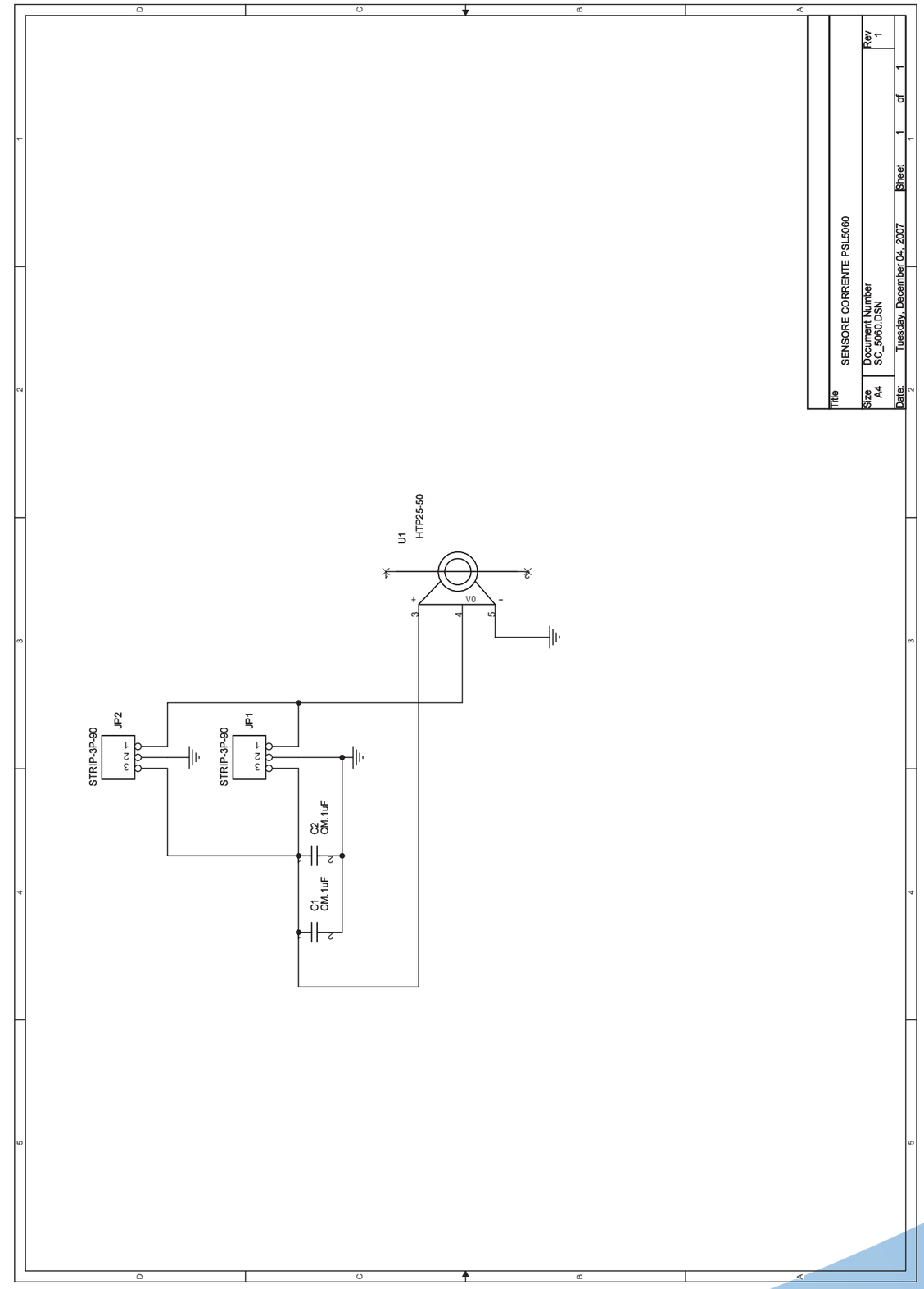
HTP25



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

HTP50

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



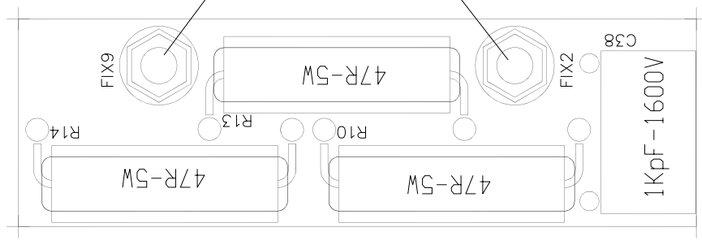
SENSORE CORRENTE PSL5060 Revised: Tuesday, December 04, 2007
SC_5060.DSN Revision: 1

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

KPSL5060.PJ

PIANO DI MONTAGGIO SNUBBER PSL5060

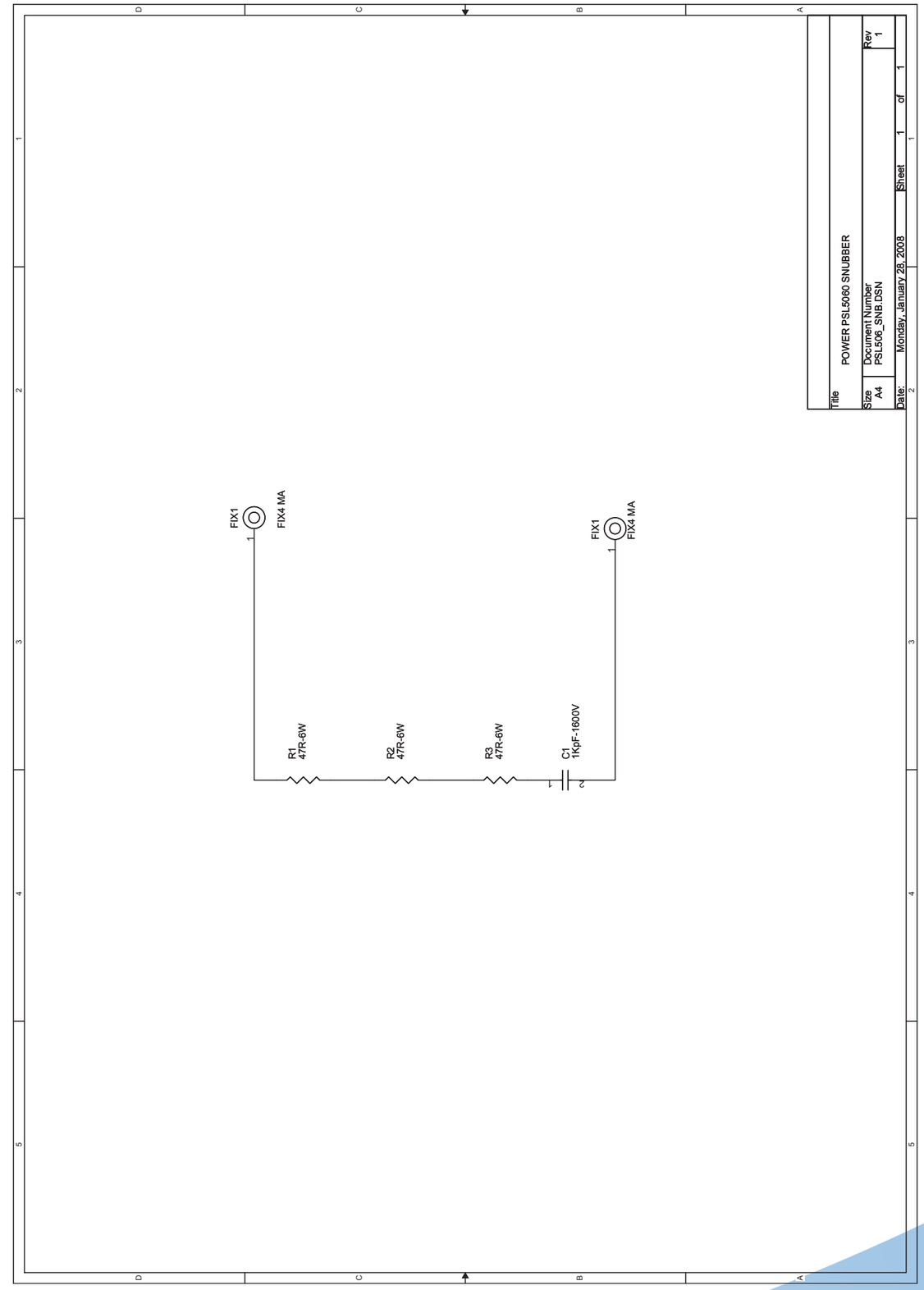
PROTEGGERE FORI



ARCHIVIO:	X: \WORKDWG\
TITLE	SNUBBER PSL5060
DOCUMENT NUMBER	PSL5060SNR01_MNT. DWG
REV	
DATE:	15 APRILE 2008

ATTENZIONE
RIPIEGARE I REOFORI DELLE
RESISTENZE

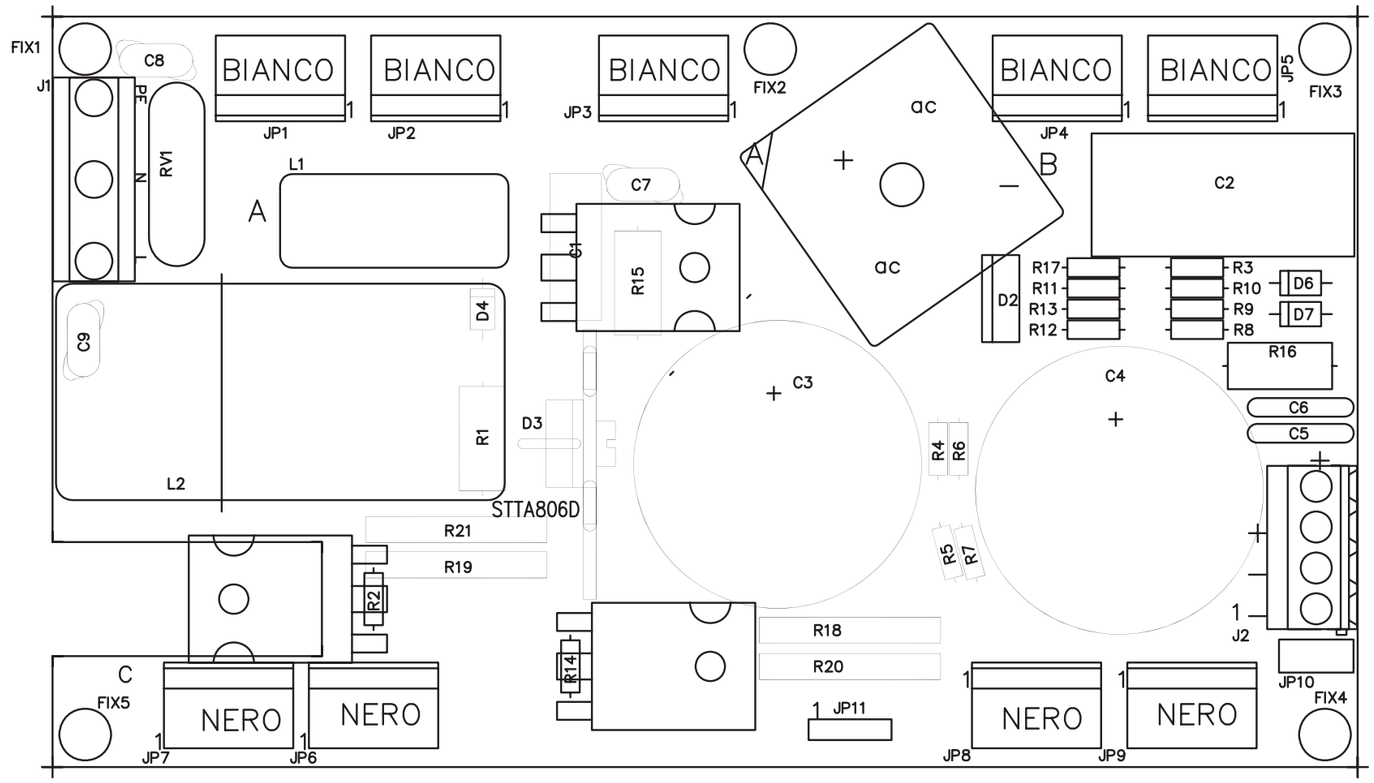
RESISTENZE OSSIDO DI METALLO



POWER PSL5060 SNUBBER Revised: Monday, January 28, 2008
PSL506_SNB.DSN Revision: 1

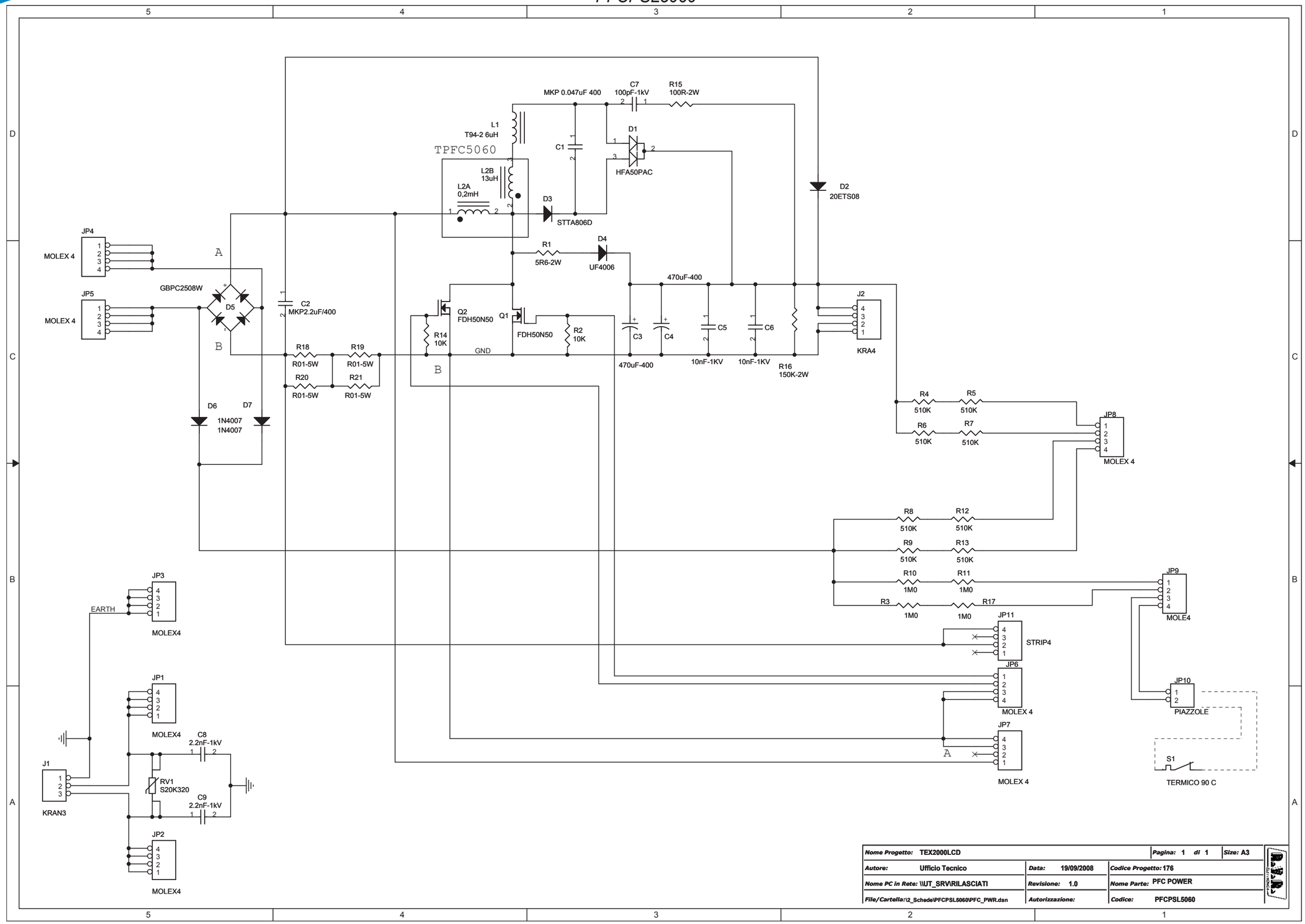
Item	Quantity	Reference	Part
1	1	C1	1KpF-1600V
2	1	FIX1	FIX4 MA
3	3	R1, R2, R3	47R-6W

PFCPSL5060



Nome Progetto:	TEX2000LCD			Pagina: 1 di 1	Size: A4
Autore:	Ufficio Tecnico	Data:	23/06/2008	Codice Progetto:	176
Nome PC in Rete:	\\UT_SRV\PROGETTI	Revisione:	1.0	Nome Parte:	PFC POWER COMPONENT LAYOUT
File/Cartella:	\2_Schede\PFCPSL5060\PFC1000PW_5060.dwg	Autorizzazione:		Codice:	PFCPSL5060
Scala: /	Materiale: /	Trattamento:	/	Profilo:	/

PFCPSL5060

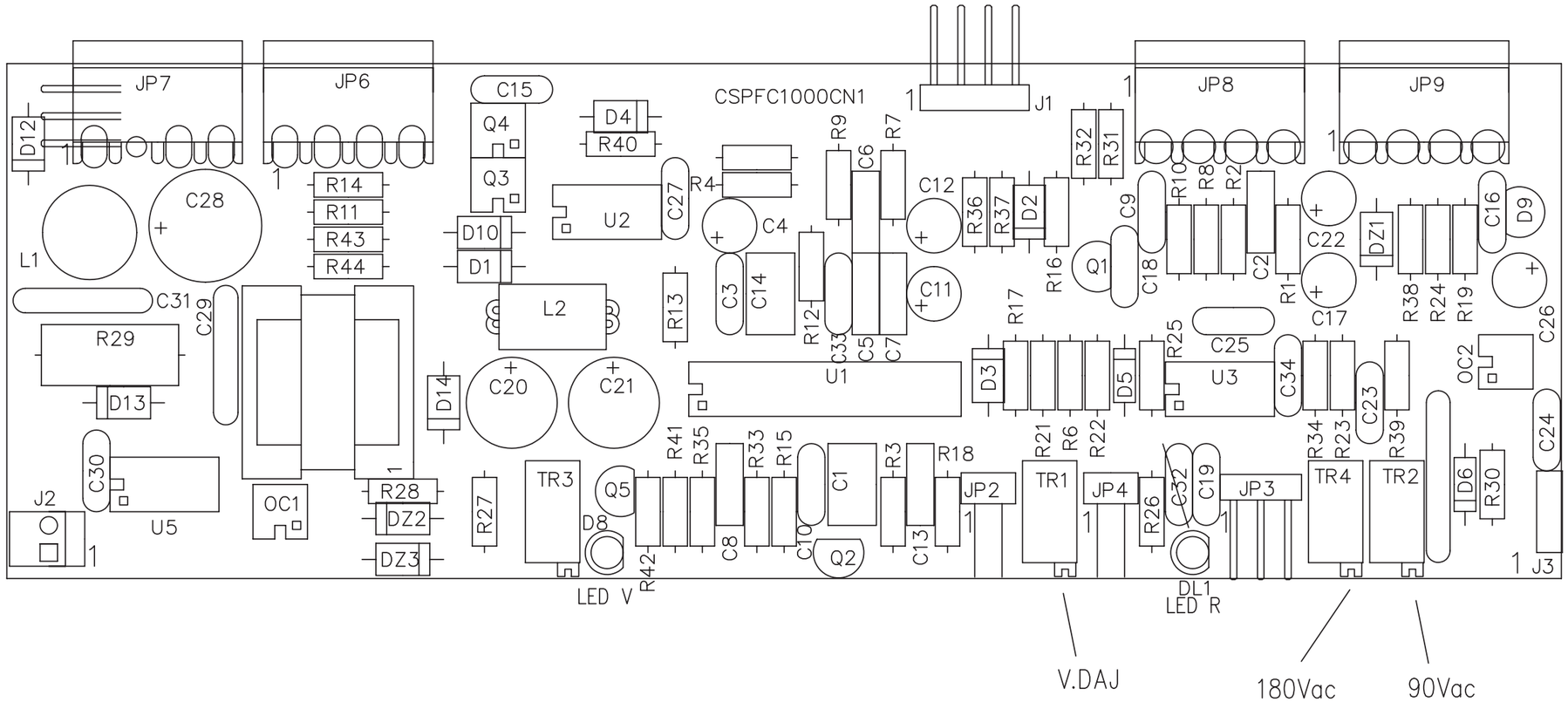

MKP 0.047uF 400
C7
100pF-1kV
R15
100R-2W
L1
T94-2 6uH
TPFC5060
C1
D1
HFA50PAC
L2B
13uH
L2A
0,2mH
D3
STTA806D
D2
20ETS08
JP4
MOLEX 4
R1
5R6-2W
D4
UF4006
470uF-400
JP5
MOLEX 4
GBPC2508W
D5
C2
MKP2.2uF/400
Q2
FDH50N50
Q1
FDH50N50
R14
10K
R2
10K
GND
C3
C4
C5
10nF-1KV
C6
10nF-1KV
J2
KRA4
470uF-400
R16
150K-2W
R18
R01-5W
R19
R01-5W
R20
R01-5W
R21
R01-5W
D6
D7
1N4007
1N4007
R4
510K
R5
510K
R6
510K
R7
510K
JP8
MOLEX 4
R8
510K
R12
510K
R9
510K
R13
510K
R10
1M0
R11
1M0
R3
1M0
R17
1M0
JP9
MOLE4
JP11
STRIP4
JP6
MOLEX 4
JP10
PIAZZOLE
JP7
MOLEX 4
S1
TERMICO 90 C
JP3
EARTH
MOLEX4
JP1
MOLEX4
C8
2.2nF-1kV
J1
KRAN3
RV1
S20K320
C9
2.2nF-1kV
JP2
MOLEX4
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

PFCPSL5060

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

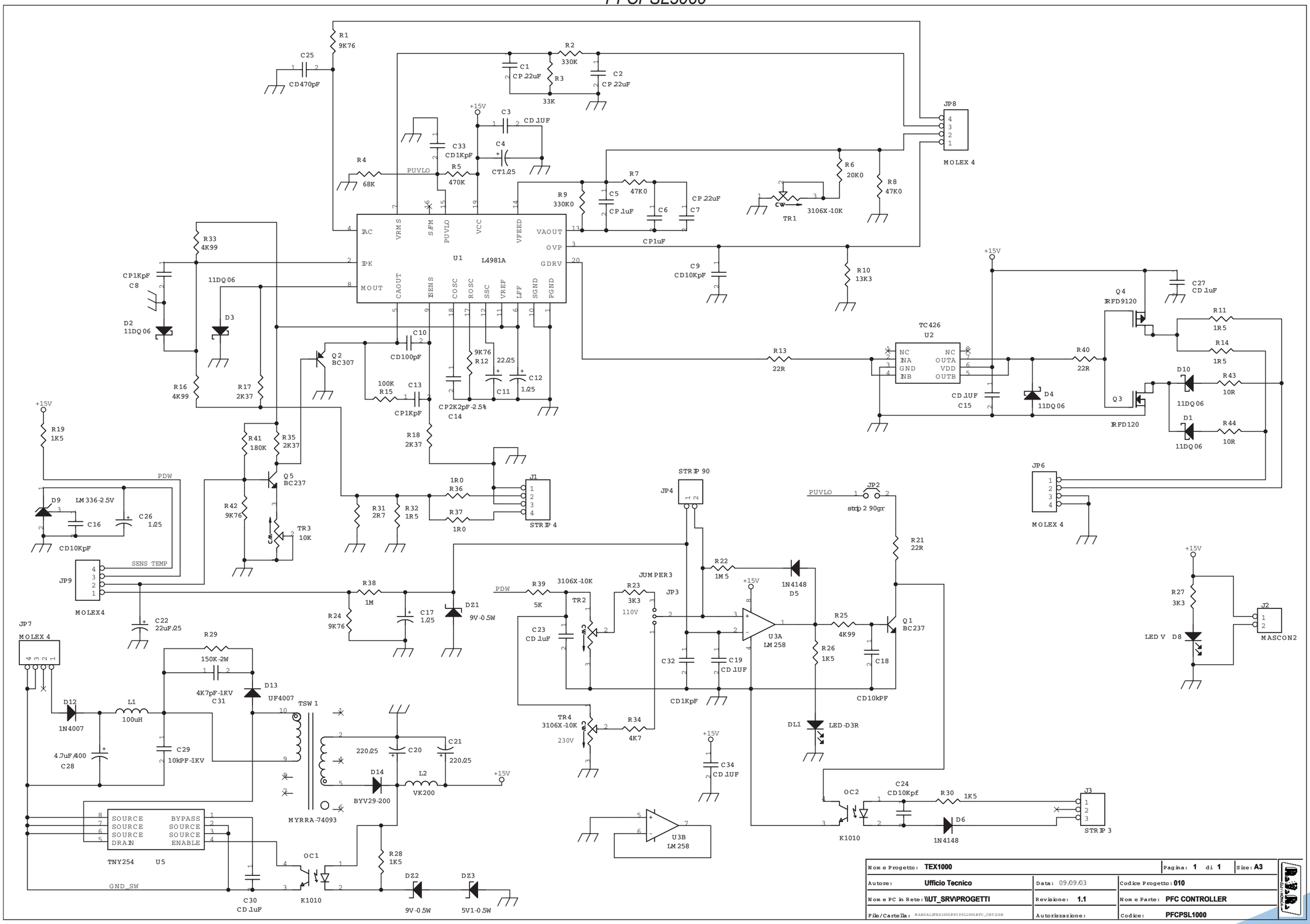
Item	Quantity	Reference	Part
1	1	C1	MKP 0.047uF 400
2	1	C2	MKP2.2uF/400
3	2	C3, C4	470uF-400
4	2	C5, C6	10nF-1KV
5	1	C7	100pF-1kV
6	2	C8, C9	2.2nF-1kV
7	1	D1	HFA50PAC
8	1	D2	20ETS08
9	1	D3	STTA806D
10	1	D4	UF4006
11	1	D5	GBPC2508W
12	2	D6, D7	1N4007
13	3	JP1, JP2, JP3	MOLEX4
14	5	JP4, JP5, JP6, JP7, 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

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/Cartella:	MANUALI\TEX1000\PFCPSL1000\PFC1000CNT.dwg	Autorizzazione:		Codice:	PFCPSL1000
Scala: /	Materiale: /	Trattamento:	/	Profilo:	/

PFCPSL5060



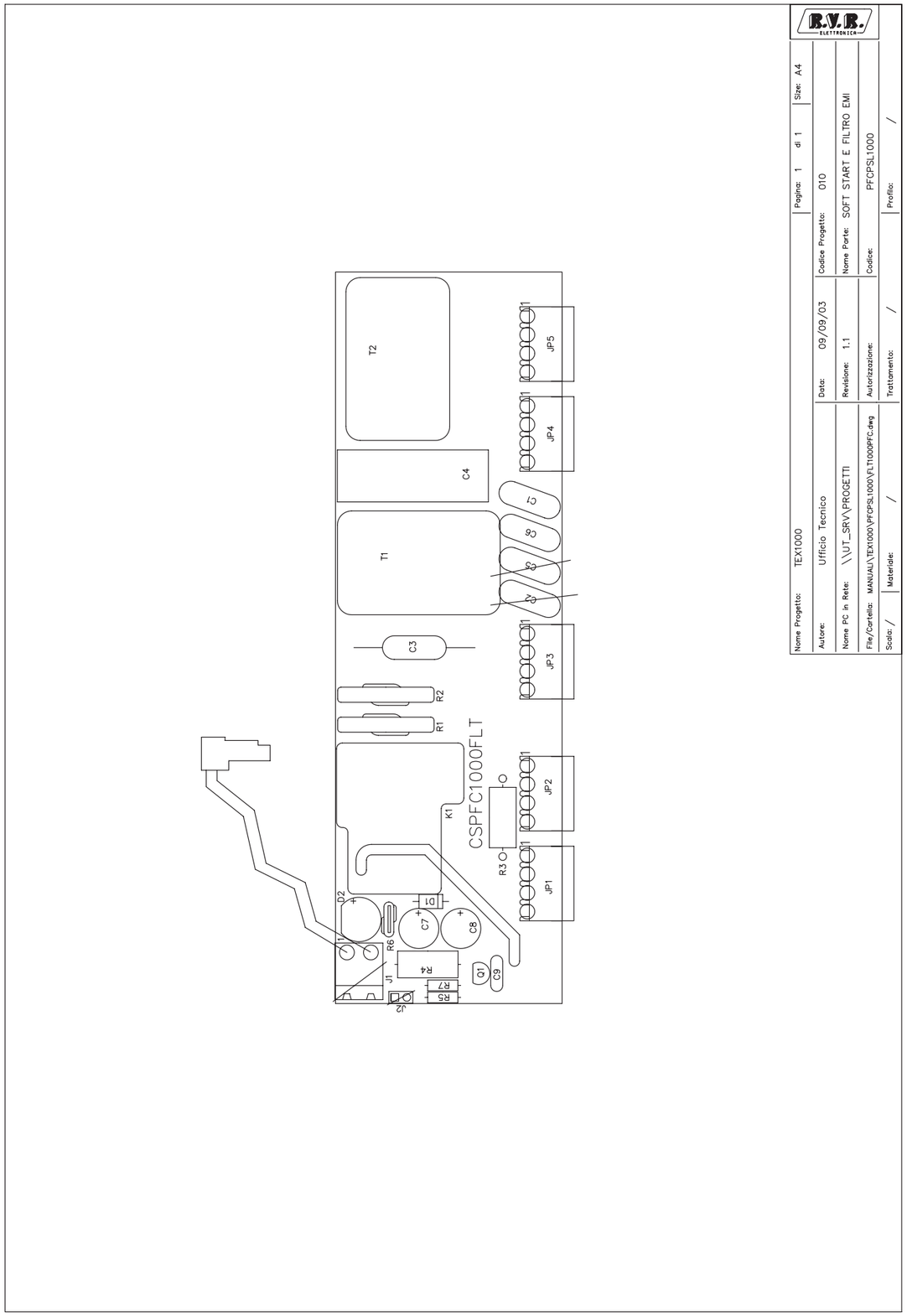
Nome Progetto: TEX1000		Pagina: 1 di 1	Size: A3
Autore: Ufficio Tecnico	Data: 09/09/03	Codice Progetto: 010	
Nome PC in Rete: \\UT_SRV\PROGETTI	Revisione: 1.1	Nome Parte: PFC CONTROLLER	
File/Cartella: MANUALI\TEX1000\PFCPSL1000\PFC_CNT.DSN	Autorizzazione:	Codice: PFCPSL1000	

PFCPSL5060

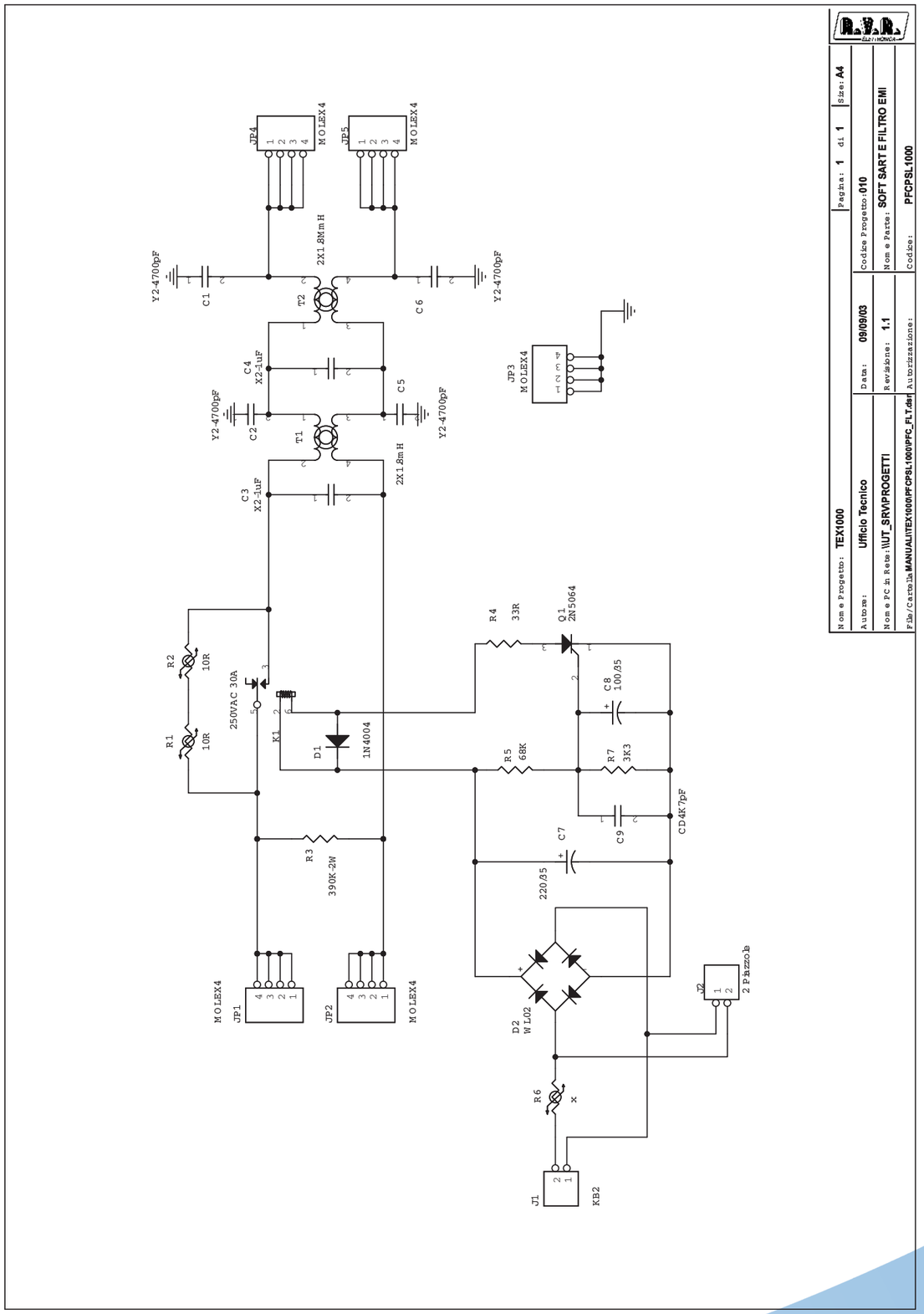
PFC CONTROLLER Revised:Tuesday, September 16, 2003
PFCPSL1000 Revision:1.1
TEX1000

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	DL1	LED-D3R
20	2	DZ1,DZ2	9V-0.5W
21	1	DZ3	5V1-0.5W
22	5	D1,D2,D3,D4,D10	11DQ06
23	2	D6,D5	1N4148
24	1	D8	LED V
25	1	D9	LM336-2.5V
26	1	D12	1N4007
27	1	D13	UF4007
28	1	D14	BYV29-200
29	1	JP2	strip 2 90gr
30	1	JP3	JUMPER3
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
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	TSW1	MYRRA-74093
72	1	U1	L4981A
73	1	U2	TC426
74	1	U3	LM258
75	1	U5	TNY254

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: SOFT START E FILTRO EMI
File/Cartella:	MANUALI\TEX1000\PFCPSL1000\PFCPSL1000PFC.dwg	Autorizzazione:	Codice: PFCPSL1000
Scala: /	Materiale: /	Trattamento: /	Profilo: /



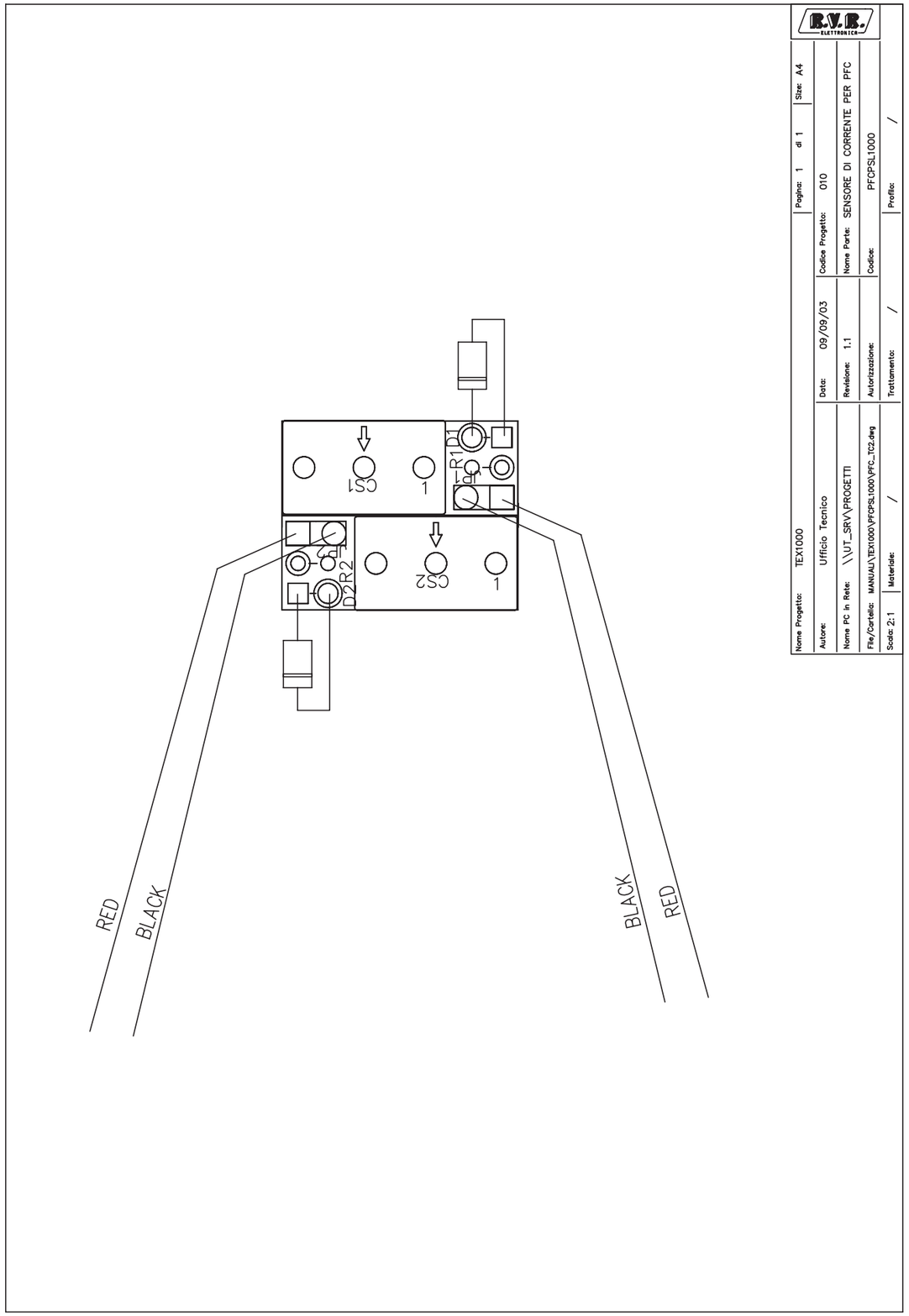
Nome Progetto:	TEX1000	Pagina: 1 di 1	Size: A4
Autore:	Ufficio Tecnico	Data: 09/09/03	Codice Progetto: 010
Nome PC in Rete:	\UT_SRV\PROGETTI	Revisione: 1.1	Nome Parte: SOFT SART E FILTRO EMI
File/Cartella:	MANUALI\TEX1000\PFCPSL1000\PFC_FLT.dwg	Autorizzazione:	Codice: PFCPSL1000

PFCPSL5060

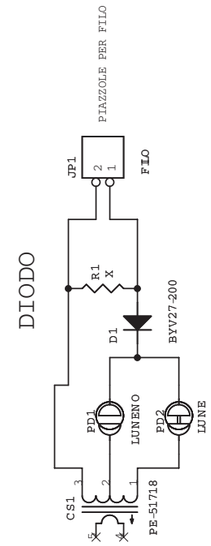
SOFT SART E FILTRO EMI Revised:Tuesday, September 16, 2003
PFCPSL1000 Revision:1.1
TEX1000

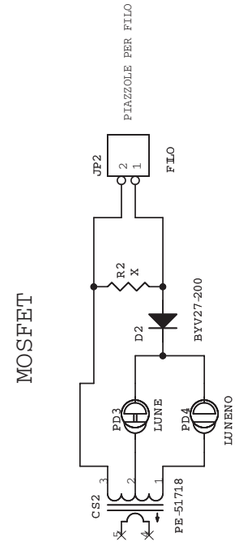
Item	Quantity	Reference	Part
1	4	C1,C2,C5,C6	Y2-4700pF
2	2	C4,C3	X2-1uF
3	1	C7	220/35
4	1	C8	100/35
5	1	C9	CD4K7pF
6	1	D1	1N4004
7	1	D2	W L02
8	5	JP1,JP2,JP3,JP4,JP5	M OLEX4
9	1	J1	KB2
10	1	J2	2 Piazzole
11	1	K1	250VAC 30A
12	1	Q1	2N5064
13	2	R2,R1	10R
14	1	R3	390K-2W
15	1	R4	33R
16	1	R5	68K
17	1	R6	x
18	1	R7	3K3
19	1	T1	2X1.8m H
20	1	T2	2X1.8M m H

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: SENSORE DI CORRENTE PER PFC	
File/Cartella: MANUALI\TEX1000\PFCPSL1000\PFC_TC2.dwg	Autorizzazione:	Codice: PFCPSL1000	
Scala: 2:1	Materiale: /	Trattamento: /	Profilo: /





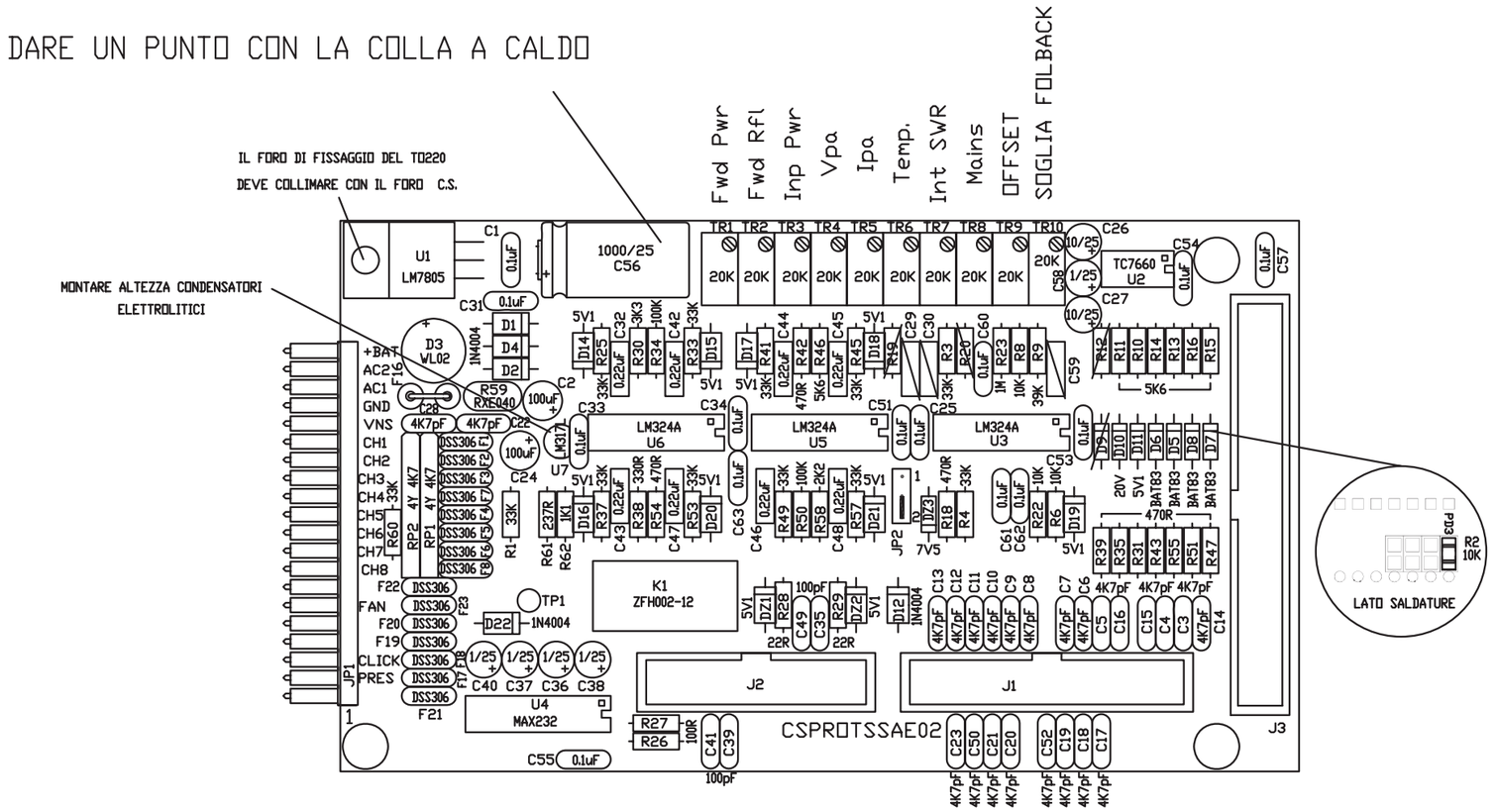
Nome Progetto: TEX1000		Pagina: 1 di 1	Size: A4
Autore: Ufficio Tecnico	Data: 09/09/03	Codice Progetto: 010	
Nome PC in Rete: \\UT_SRV\PROGETTI	Revisione: 1.1	Nome Parte: SENSORE DI CORRENTE PER PFC	
File/Cartella: MANUALI\TEX1000\PFCPSL1000\PFC_TC2.dwg	Autorizzazione:	Codice: PFCPSL1000	

PFCPSL5060

SENSORE DICORRENTE PER PFC Revised:Tuesday,September16,2003
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	FILO
4	2	PD1,PD4	LUNENO
5	2	PD2,PD3	LUNE
6	2	R2,R1	X

PIANO DI MONTAGGIO CSPROTSSAE02 R3

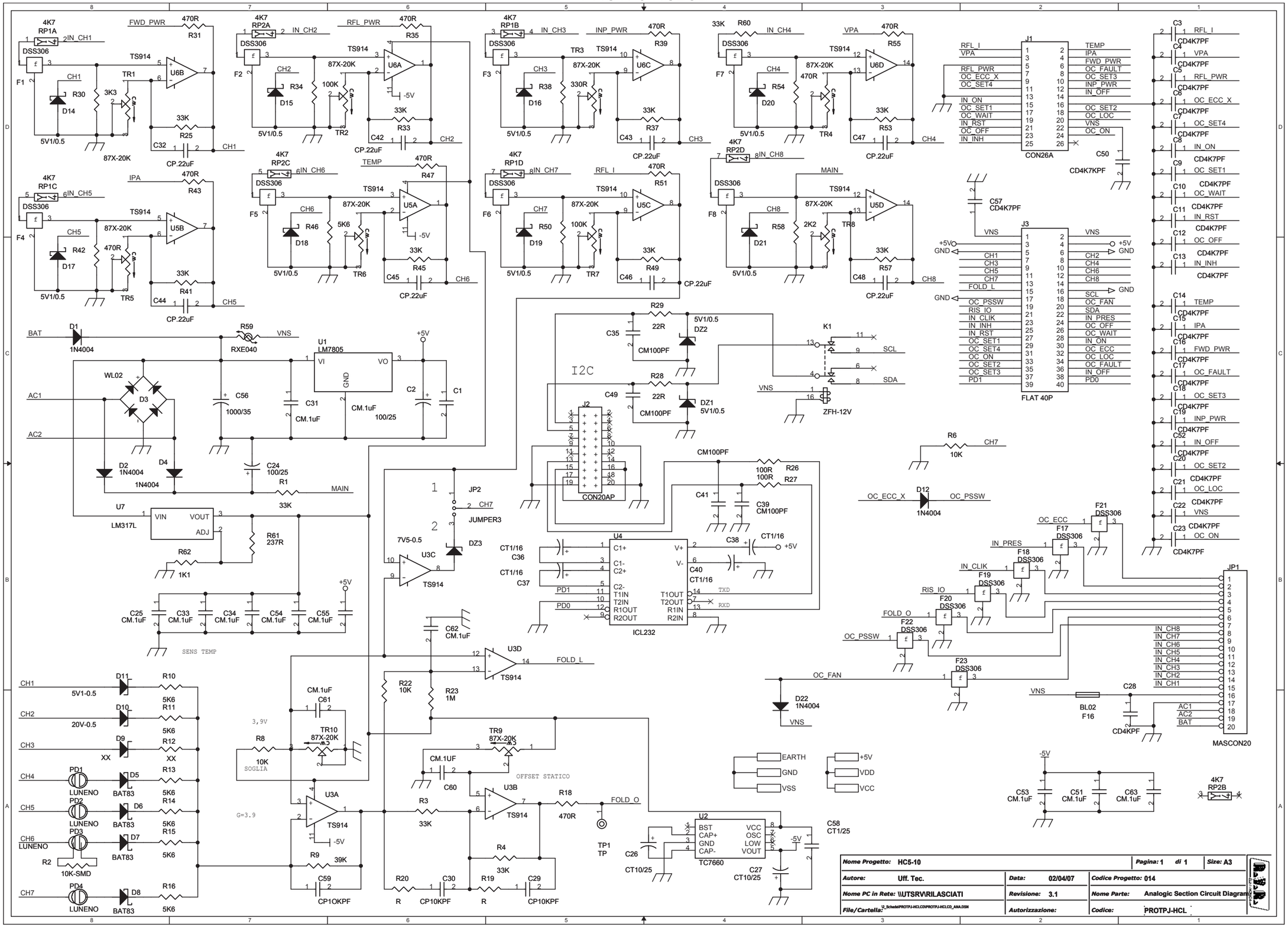


NOTE: REL 3

AGGIUNGERE UN RESISTENZA DA 10K SUL LS IN PD3

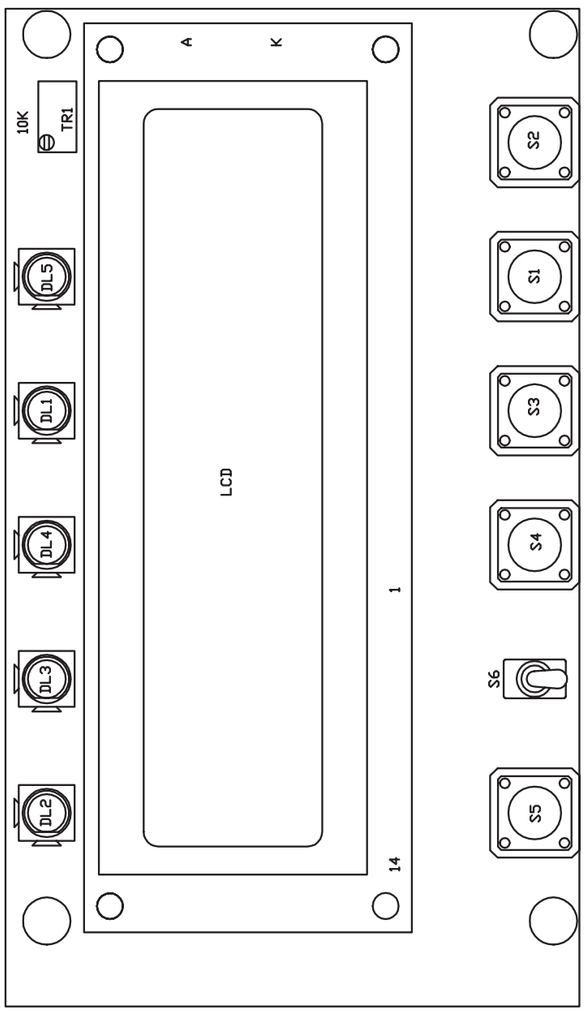
NOME PROGETTO:	HC5-10
AUTORE:	GP - Rev.: J. Berti
ARCHIVIAZIONE ELETTRONICA:	"CARTELLA PROGETTI" SU "UT_SRV"
MATERIALE:	FR4-74 1.6mm Cu 35um
TRATTAMENTO:	STANDARD COSTRUTTORE
NOME PARTE:	Analogic Section Component Layout
DATA:	14/03/2007
REVISIONE:	3.1
SCALA:	1:1
SIZE:	A4
PAGINA:	1 DI 1
CODICE PROGETTO:	014
CODICE DISEGNO:	PROTPJ-HCLCD
PROFILO:	Positivo
STATO:	ESECUTIVO

PROTPJ-HCLCD



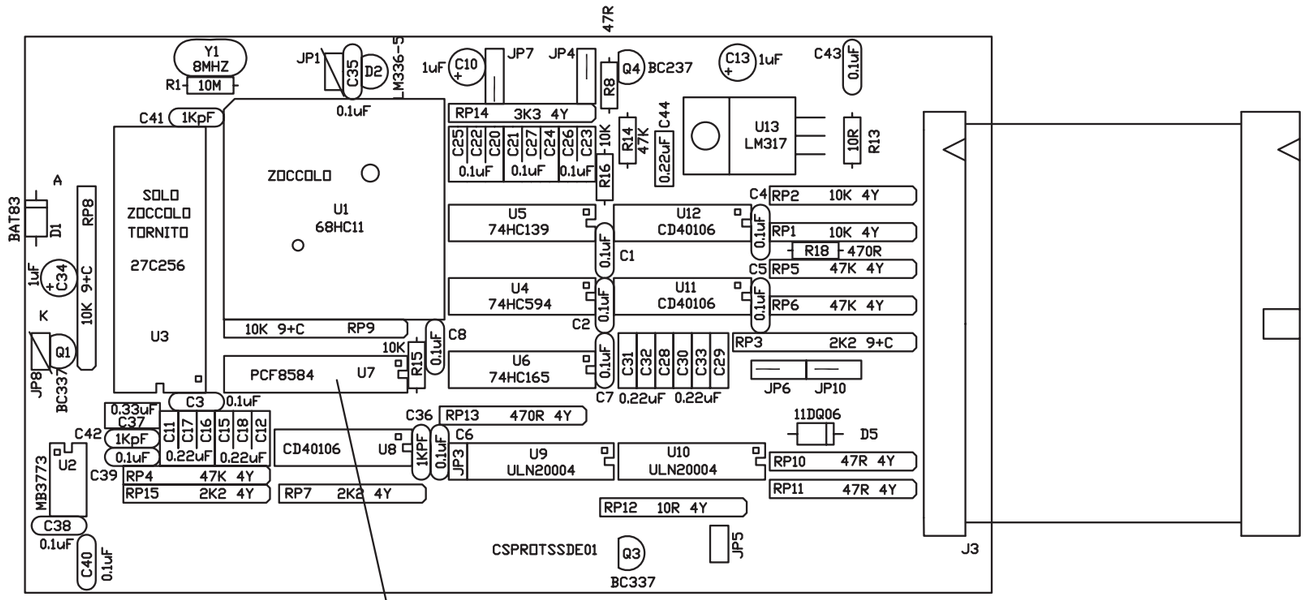
Revised: Thursday, January 08, 2009
Revision:

Item	Quantity	Reference	Part
1	13	C1, C25, C31, C33, C34, C51, C53, C54, C55, C60, C61, C62, C63	CM.1uF
2	2	C2, C24	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	CP1OKPF
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	2	D9, R12	XX
20	1	D10	20V-0.5
21	1	D11	5V1-0.5
22	15	F1, F2, F3, F4, F5, F6, F7, F8, F17, F18, F19, F20, F21, F22, F23	DSS306
23	1	F16	BL02
24	1	JP1	MASCON20
25	1	JP2	JUMPER3
26	1	J1	CON26A
27	1	J2	CON20AP
28	1	J3	FLAT 40P
29	1	K1	ZFH-12V
30	4	PD1, PD2, PD3, PD4	LUNENO
31	2	RP1, RP2	4K7
32	12	R1, R3, R4, R25, R33, R37, R41, R45, R49, R53, R57, R60	33K
33	1	R2	10K-SMD
34	3	R6, R8, R22	10K
35	1	R9	39K
36	7	R10, R11, R13, R14, R15, R16, R46	5K6
37	10	R18, R31, R35, R39, R42, R43, R47, R51, R54, R55	470R
38	2	R19, R20	R
39	1	R23	1M
40	2	R26, R27	100R
41	2	R28, R29	22R
42	1	R30	3K3
43	2	R34, R50	100K
44	1	R38	330R
45	1	R58	2K2
46	1	R59	RXE040
47	1	R61	237R
48	1	R62	1K1
49	1	TP1	TP
50	10	TR1, TR2, TR3, TR4, TR5, TR6, TR7, TR8, TR9, TR10	87X-20K
51	1	U1	LM7805
52	1	U2	TC7660
53	3	U3, U5, U6	TS914
54	1	U4	ICL232
55	1	U7	LM317L



R.V.R. ELETTRONICA	NOME PROGETTO: HC5-10		NOME PARTE: CPU Display Section Component Layout			
	AUTORE: GP - Rev.: J. Berti	DATA: 11/02/2004	REVISIONE: 2.0	SCALA: 1:1	SIZE: A4	PAGINA: 1 DI 1
ARCHIVIAZIONE ELETTRONICA: "CARTELLA PROGETTI" SU "UT_SRV"		CODICE PROGETTO: 014		CODICE DISEGNO: PROTPJ-HCLCD		
MATERIALE: FR4-74 1.6mm Cu 35um		TRATTAMENTO: STANDARD COSTRUTTORE		PROFILO: Positivo		STATO: ESECUTIVO

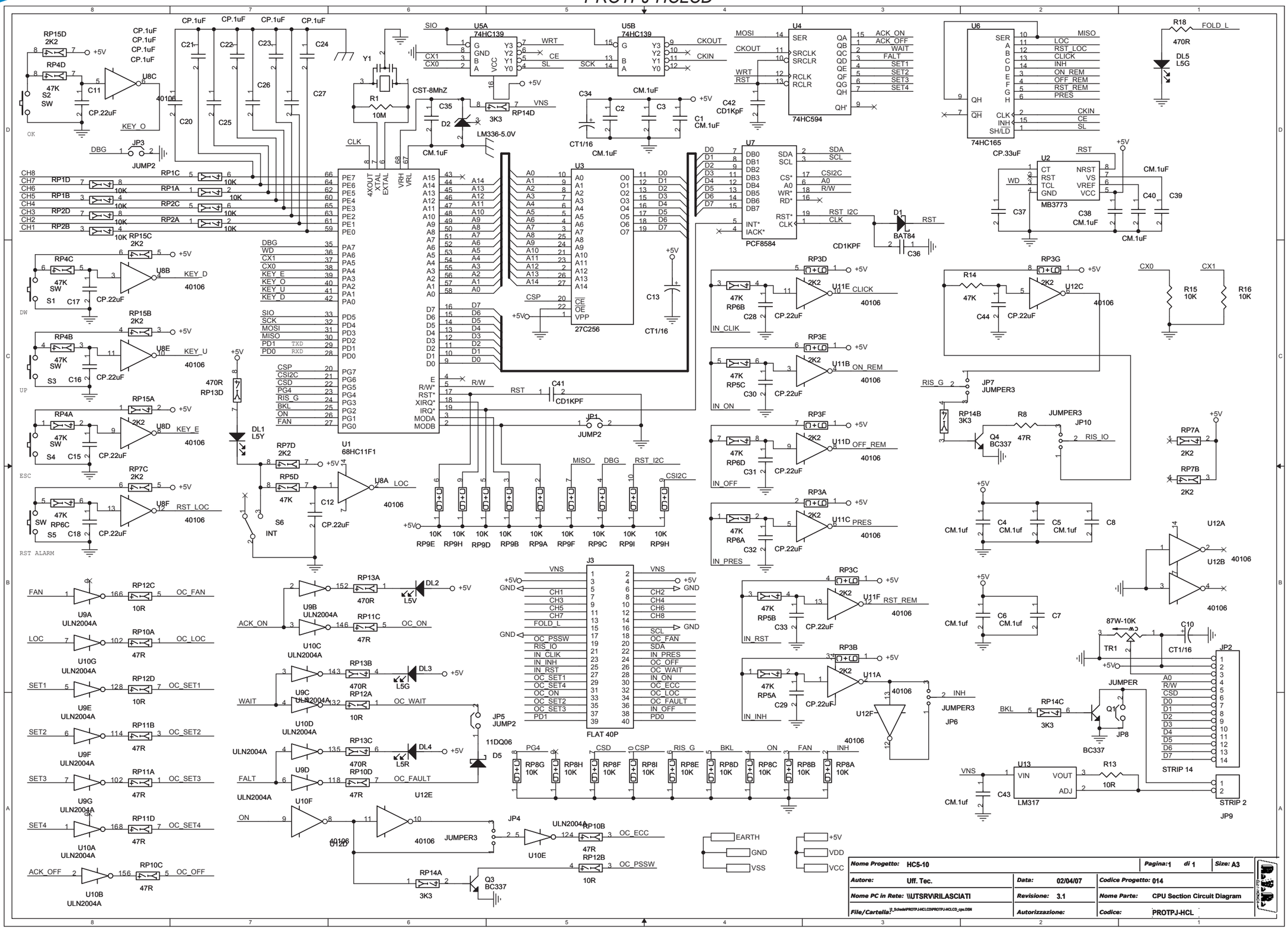
PIANO DI MONTAGGIO LATO SALDATURE



MONTARE CON ZOCCOLO

NOME PROGETTO:	HC5-10
AUTORE:	GP - Rev.: J. Berti
ARCHIVIAZIONE ELETTRONICA:	"CARTELLA PROGETTI" SU "UT_SRV"
MATERIALE:	FR4-74 1.6mm Cu 35um
TRATTAMENTO:	STANDARD COSTRUTTORE
NOME PARTE:	LCD Alarms Card Layout
DATA:	30/10/2008
REVISIONE:	1.1
SCALA:	1:1
SIZE:	A4
PAGINA:	1 DI 1
CODICE PROGETTO:	014
CODICE DISEGNO:	PROTPJ-HCLCD
PROFILO:	Positivo
STATO:	ESECUTIVO

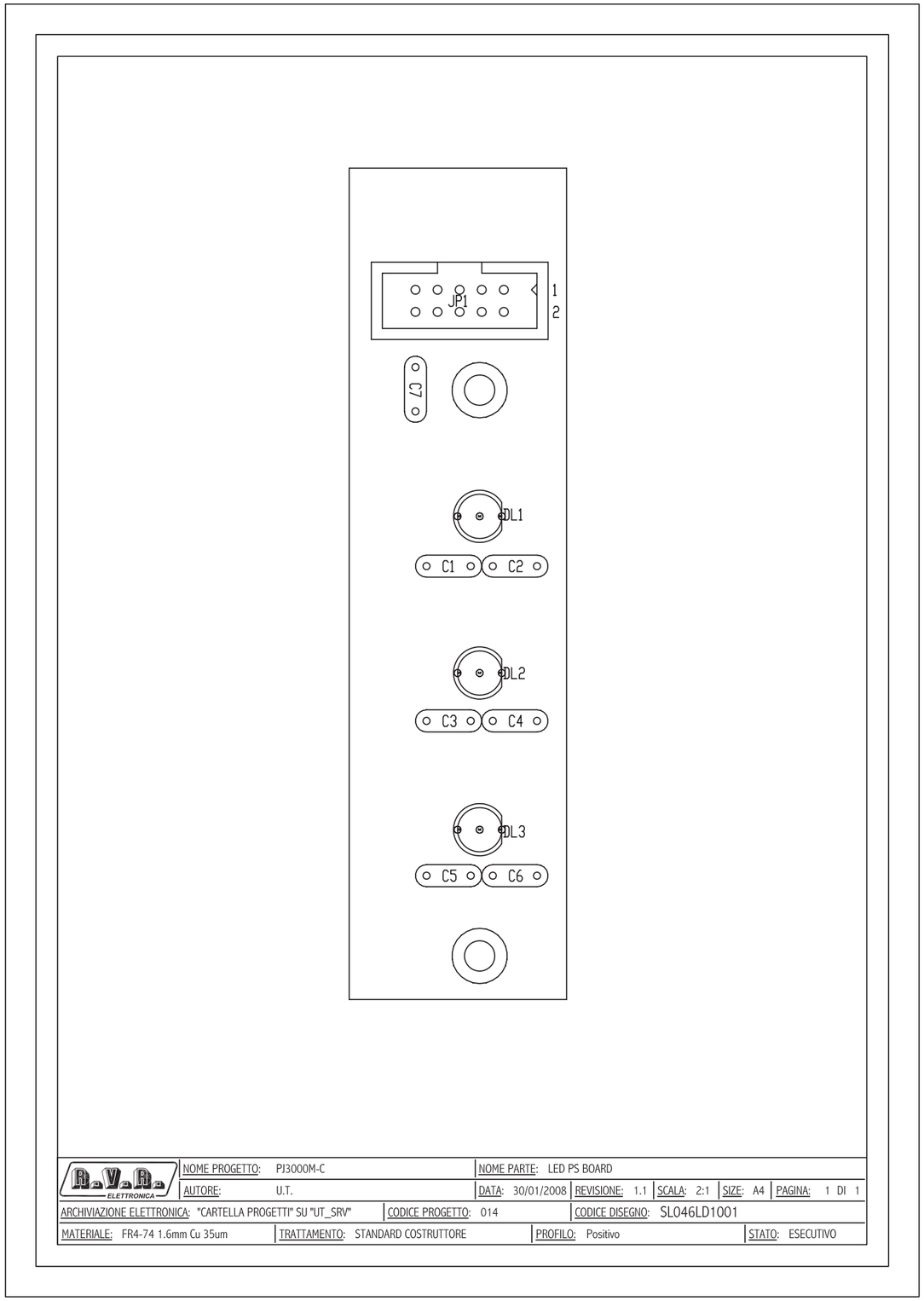
PROTPJ-HCLCD

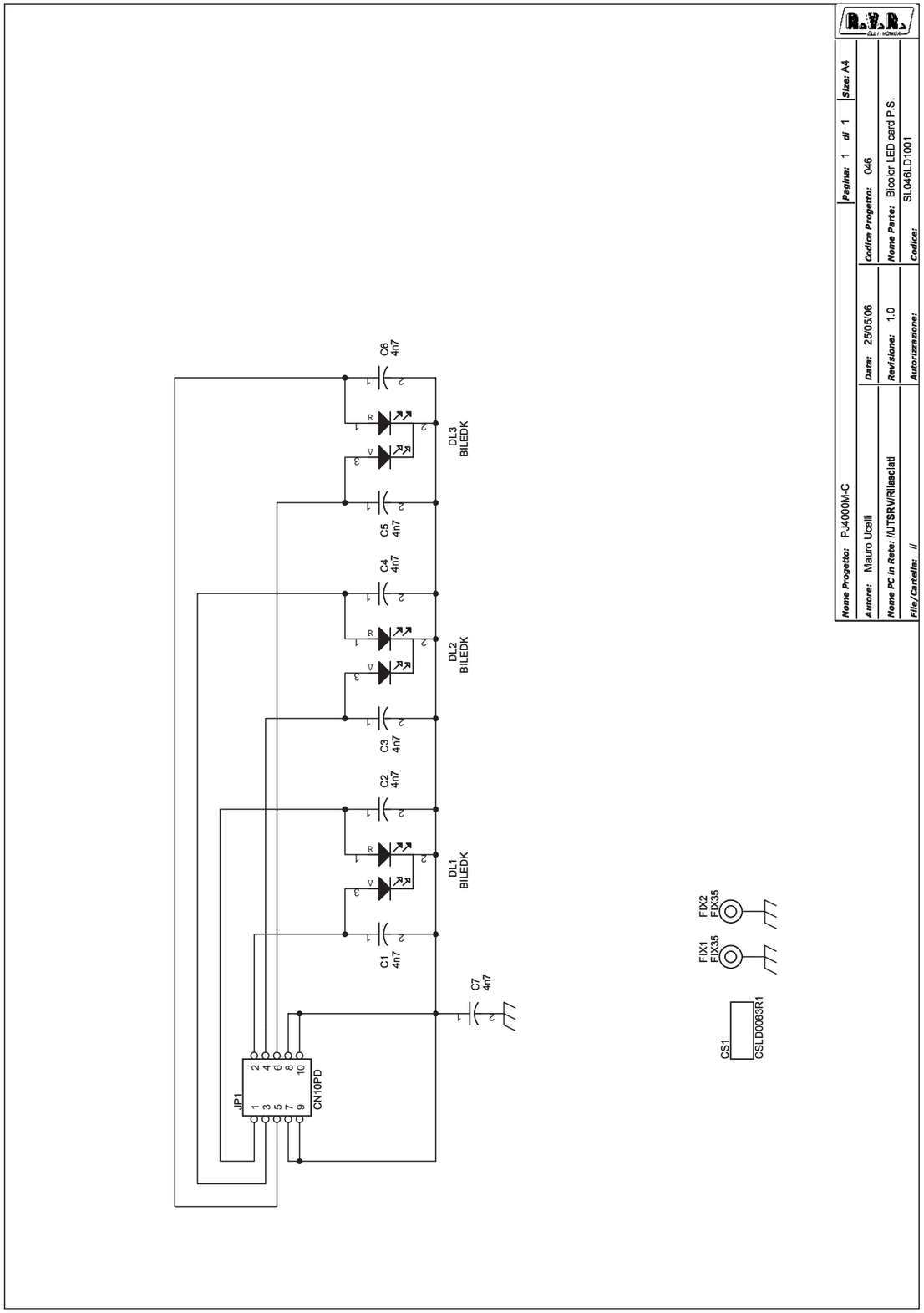


Revised: Thursday, January 08, 2009
Revision:

Item	Quantity	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	1	DL1	L5Y
8	1	DL2	L5V
9	2	DL3, DL5	L5G
10	1	DL4	L5R
11	1	D1	BAT84
12	1	D2	LM336-5.0V
13	1	D5	11DQ06
14	3	JP1, JP3, JP5	JUMP2
15	1	JP2	STRIP 14
16	4	JP4, JP6, JP7, JP10	JUMPER3
17	1	JP8	JUMPER
18	1	JP9	STRIP 2
19	1	J3	FLAT 40P
20	3	Q1, Q3, Q4	BC337
21	6	RP1, RP2, RP8, RP9, R15, R16	10K
22	3	RP3, RP7, RP15	2K2
23	4	RP4, RP5, RP6, R14	47K
24	3	R8, RP10, RP11	47R
25	2	RP12, R13	10R
26	2	RP13, R18	470R
27	1	RP14	3K3
28	1	R1	10M
29	5	S1, S2, S3, S4, S5	SW
30	1	S6	INT
31	1	TR1	87W-10K
32	1	U1	68HC11F1
33	1	U2	MB3773
34	1	U3	27C256
35	1	U4	74HC594
36	1	U5	74HC139
37	1	U6	74HC165
38	1	U7	PCF8584
39	3	U8, U11, U12	40106
40	2	U9, U10	ULN2004A
41	1	U13	LM317
42	1	Y1	CST-8MhZ

SL046LD1001



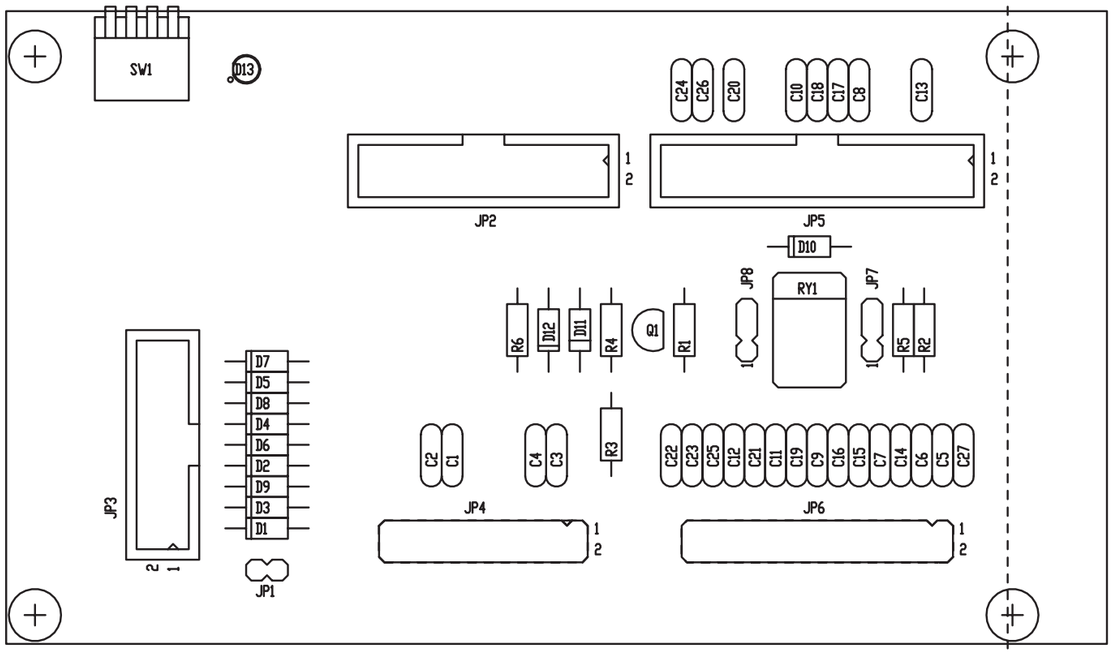


SL046LD1001

Bicolor LED card P.S.
SL046LD1001
Revision: 1.0
PJ4000M-C
046
Mauro Ucelli
25/05/06

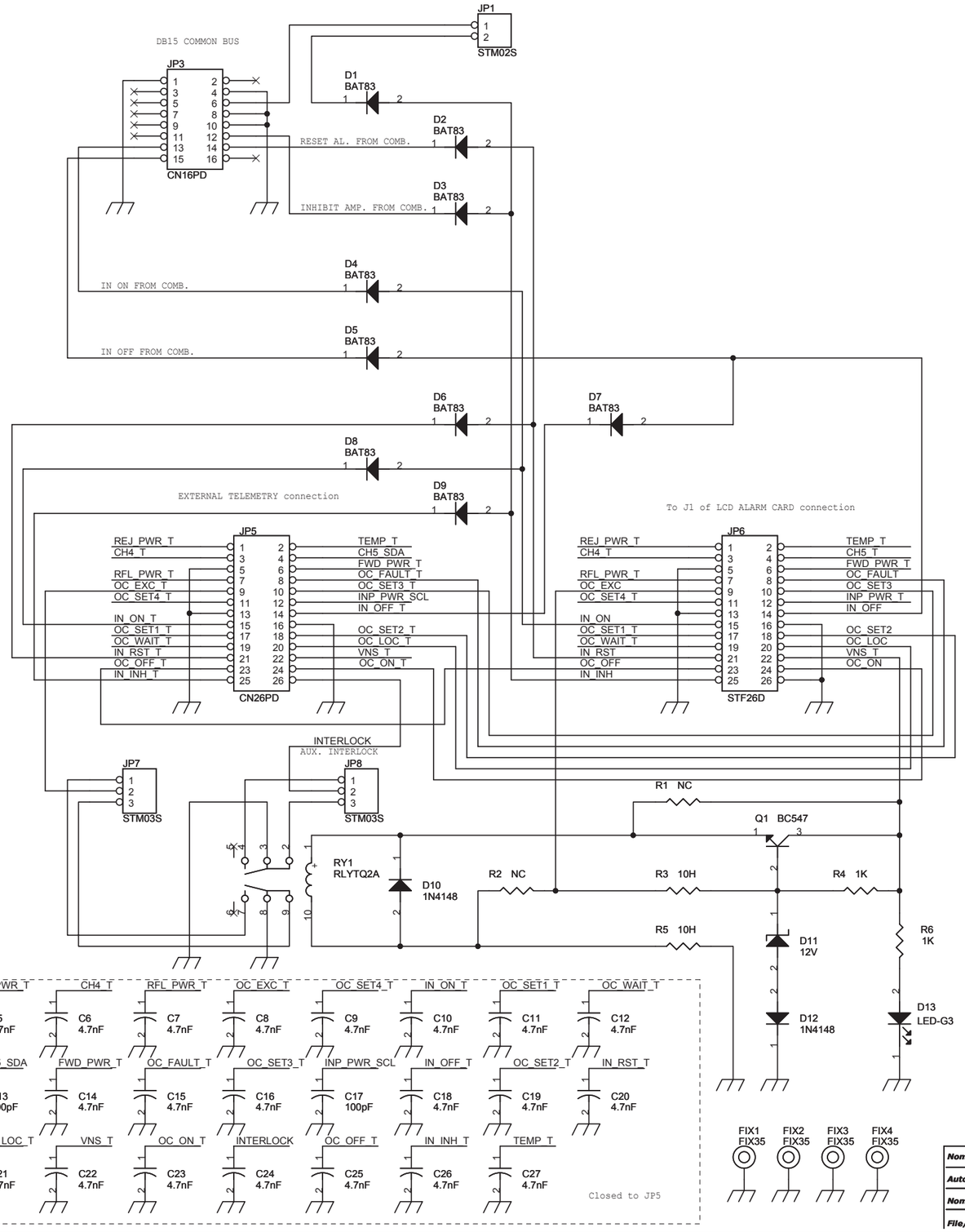
Item	Quantity	Reference	Part	Description	Code1
1	1	CS1	CSLD0083R1	Circuito stampato	CSLD0083R1
2	7	C1,C2,C3,C4,C5,C6,C7	4n7	Cond. ceramico p 5mm	CKM472KC600P
3	3	DL1,DL2,DL3	BILEDK	Doppio led V-R 5mm Catodo com.	LEDB05
4	2	FIX1,FIX2	FIX35	Foro fissaggio 3.5mm	
5	1	JP1	CN10PD	Connettore 10 poli Flat cs	CNTMCS10A

SLPROTFINT01



Nome Progetto:	PJ2000M_C			Pagina: 1 di 1	Size: A4
Autore:	Poluzzi S.	Data:	20/03/03	Codice Progetto:	PJ2000M-C
Nome PC in Rete:	\\ut_srv\Progetti\Stato solido	Revisione:	1.0	Nome Parte:	Scheda Interfaccia Estesa PROTF
File/Cartella:	PJ2000M-C\Esecutivi\Schemi Elettrici\Interfaccia Protf	Autorizzazione:		Codice:	CSPROTFINT01
Scala:	1:1	Materiale:	FR4-74 1.6mm Cu 35um	Trattamento:	STANDARD COSTRUTTORE
				Profilo:	/

SLPROTFINT01



Nota: R1, quando è installata, consente di eliminare:
Q1, R4, D11, D12

Nota: R2, quando è installata esclude R3 ed R5.
In questo modo RY1 viene eccitato dal segnale
OC_EXC quando ATTIVO.
Soluzione adottata su PJ2000MC.

Nota: R3 ed R5, quando sono installate
escludono R2.
In questo modo RY1 viene eccitato dal segnale
OC_EXC quando NON ATTIVO.

Nota: JP8, quando è installato, consente di disporre di un segnale per INTERLOCK ausiliario da collegarsi ad un connettore dedicato.

Nota: JP1 e D1, quando sono installati, Consentono di parallelare, in senso LOGICO, i segnali di ST_BY per schede CPU su sezione RF di PJ2000MC con il segnale di IN_INH per schede ProtF.

Nome Progetto: PJ2000MC		**Pagina:** 1 **di** 1	**Size:** A3
Autore: Mauro Ucelli	**Data:** 10/03/2005	**Codice Progetto:** PJ2000MC	
Nome PC in Rete: \\ut_srv\Progetti\	**Revisione:** 1.1	**Nome Parte:** Interfaccia estesa per ProtF	
File/Cartella: Schede/SLPROTFINT01/	**Autorizzazione:**	**Codice:** SLPROTFINT01	

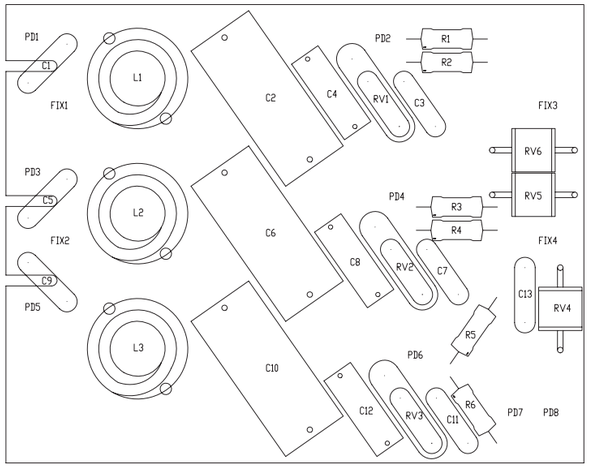
SLPROTFINT01

Interfaccia estesa per ProtF Revised: Friday, March 11, 2005
SLPROTFINT01 Revision: 1.1
PJ2000MC
PJ2000MC
Mauro Ucelli

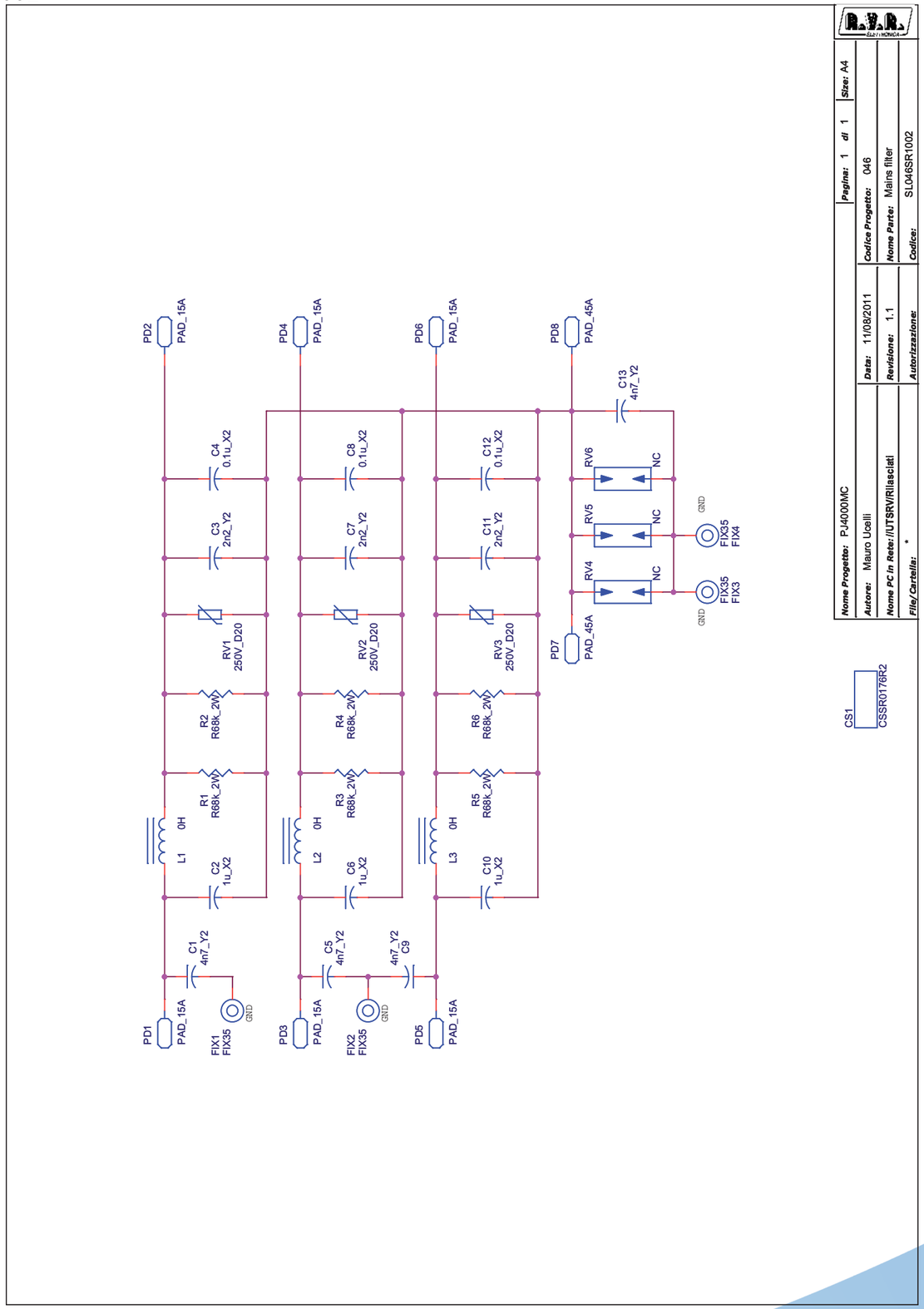
Item	Quantity	Reference	Part	Description	
1	1	CS1	CSPROTFINT01	Circuito stampato	
2	6	C1, C2, C3, C4, C13, C17	100pF	Cond. ceramico p 5mm	
3	21	C5, C6, C7, C8, C9, C10, C11, C12, C14, C15, C16, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27	4.7nF	Cond. ceramico p 5mm	
4	9	D1, D2, D3, D4, D5, D6, D7, D8, D9	BAT83	Diodi Hot carrier DO35	
5	2	D10, D12	1N4148	Diodo in vetro DO35	
6	1	D11	12V	1/2W Zener Diode	
7	1	D13	LED-G3	LEDVERDE dia. 3mm a battuta	
8	4	FIX1, FIX2, FIX3, FIX4	FIX35	Foro fissaggio 3.5mm	
9	1	JP1	STM02S	Strip maschio 2 pin	
10	1	JP2	CN20PD	Connettore 20 poli Flat cs	
11	1	JP3	CN16PD	Connettore 16 poli Flat cs	
12	1	JP4	STF20D	Strip femmina 10+10 pin	**Nota 1**
13	1	JP5	CN26PD	Connettore 26 poli Flat cs	
14	1	JP6	STF26D	Strip femmina 13+13 pin	**Nota 1**
15	2	JP7, JP8	STM03S	Strip maschio 3 pin	**Nota 2**
16	1	Q1	BC547	Trans. NPN TO92	
17	1	RY1	RLYTQ2A	Rele' TQ2 12V	
18	2	R1, R2	NC	Res. 1/4W	
19	2	R3, R5	10H	Res. 1/4W	
20	2	R4, R6	1K	Res. 1/4W	
21	1	SW1	SWDIP4H	Dip switch 4 vie vert.	

Nota 1 Montare lato saldature
Nota 2 JP7 ponticellare pin 2-3, JP8 ponticellare pin 2-3

SL046SR1002



R.V.R. ELETTRONICA	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	



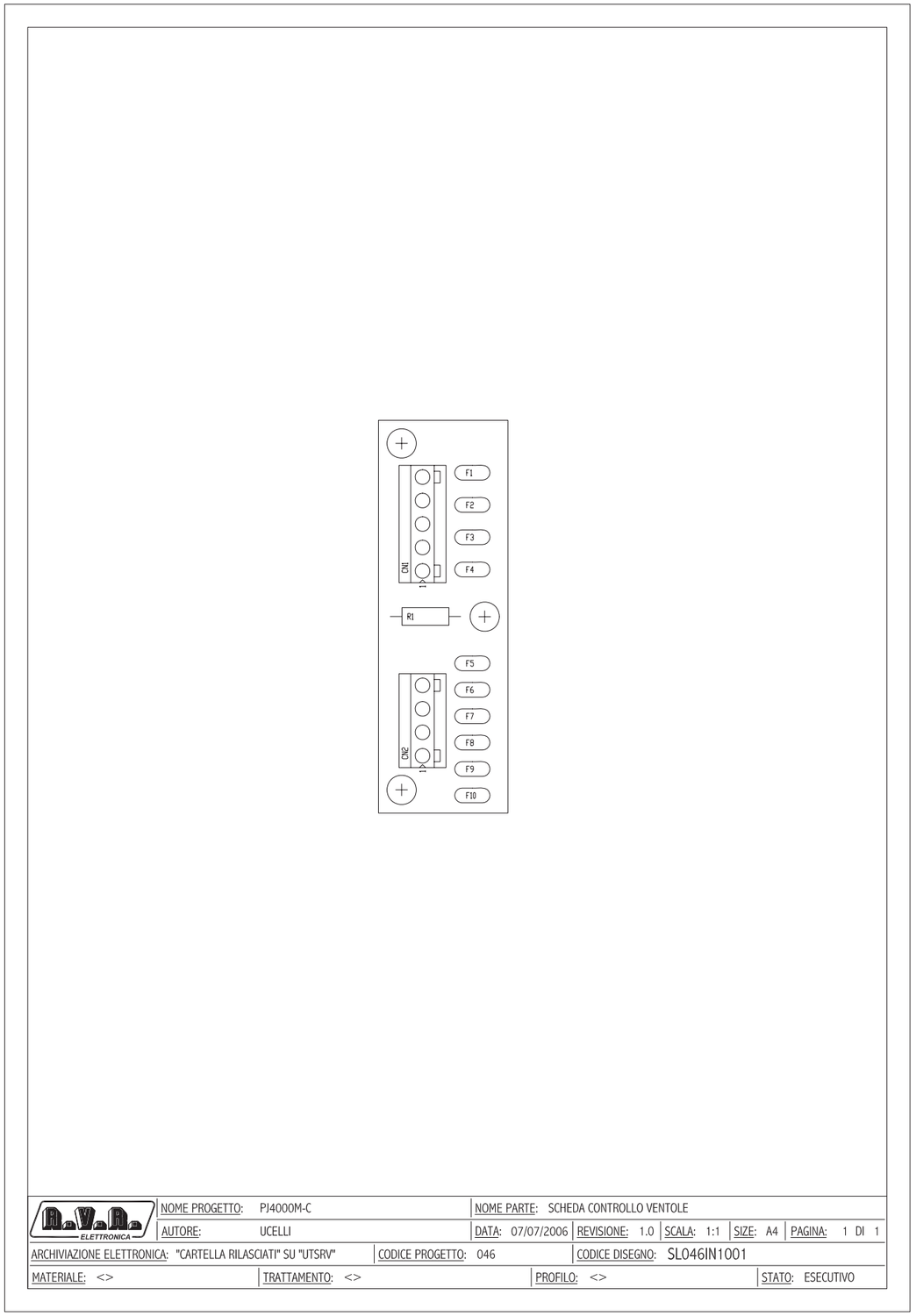
R.V.R. ELETTRONICA	Nome Progetto: PJ4000MC					Pagina: 1 di 1	Size: A4
	Autore: Mauro Ucelli		Data: 11/08/2011	Codice Progetto: 046			
	Nome PC in Rete: //UTSRV/Rilasciati		Revisione: 1.1	Nome Parte: Mains filter			
	File/Cartella: *		Autorizzazione:	Codice: SL046SR1002			

SL046SR1002

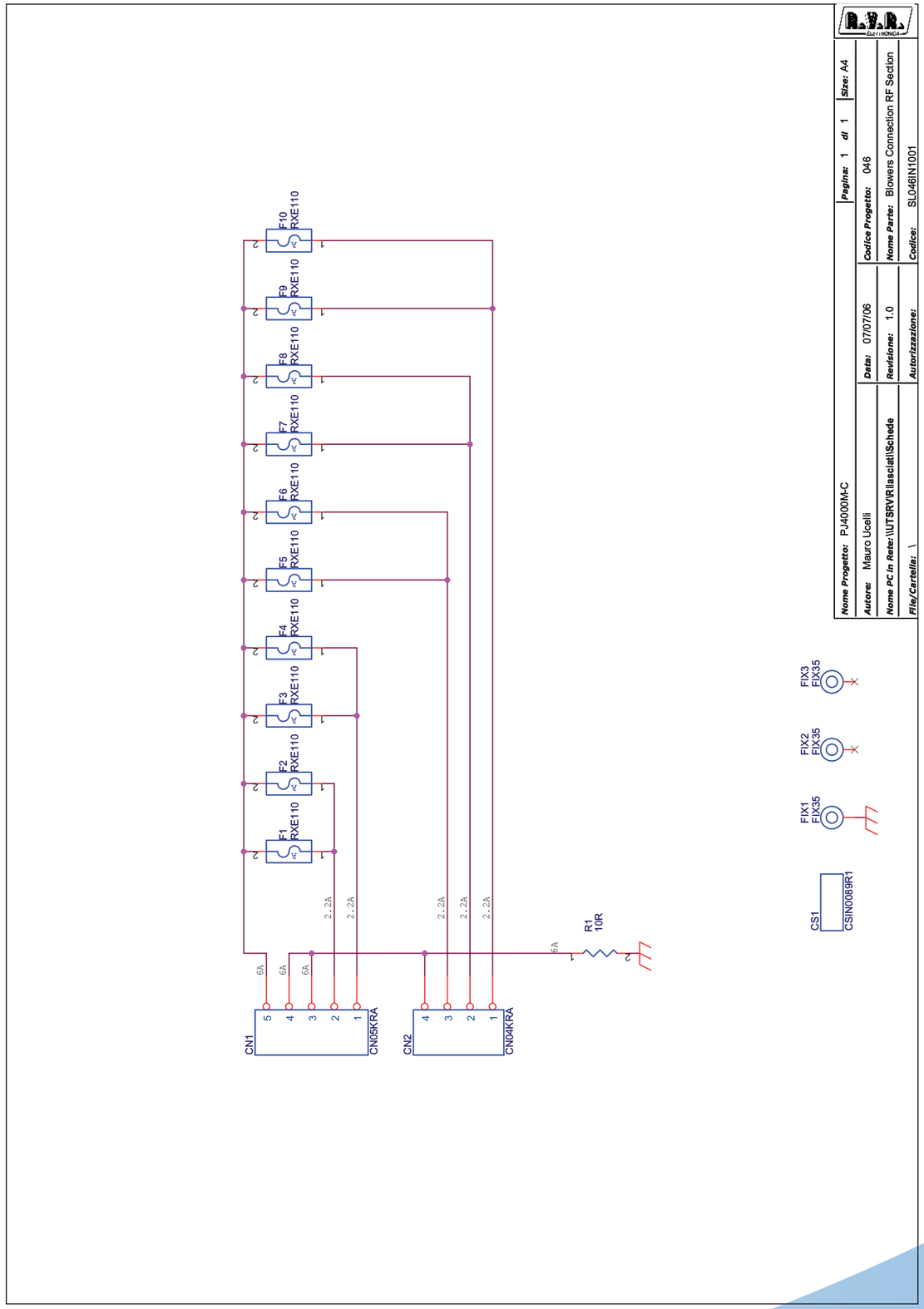
Mains filter
SL046SR1002
Revision: 1.1
PJ4000MC
046
Mauro Ucelli
11/08/2011

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	0H	Ponticello con filo Rame Smalt. 2mm	FILSMAL00002
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

SL046IN1001



NOME PROGETTO: PJ4000M-C			NOME PARTE: SCHEDA CONTROLLO VENTOLE				
AUTORE: UCELLI		DATA: 07/07/2006	REVISIONE: 1.0	SCALA: 1:1	SIZE: A4	PAGINA: 1 DI 1	
ARCHIVIAZIONE ELETTRONICA: "CARTELLA RILASCIATI" SU "UTSRV"		CODICE PROGETTO: 046		CODICE DISEGNO: SL046IN1001			
MATERIALE: <>	TRATTAMENTO: <>		PROFILO: <>		STATO: ESECUTIVO		

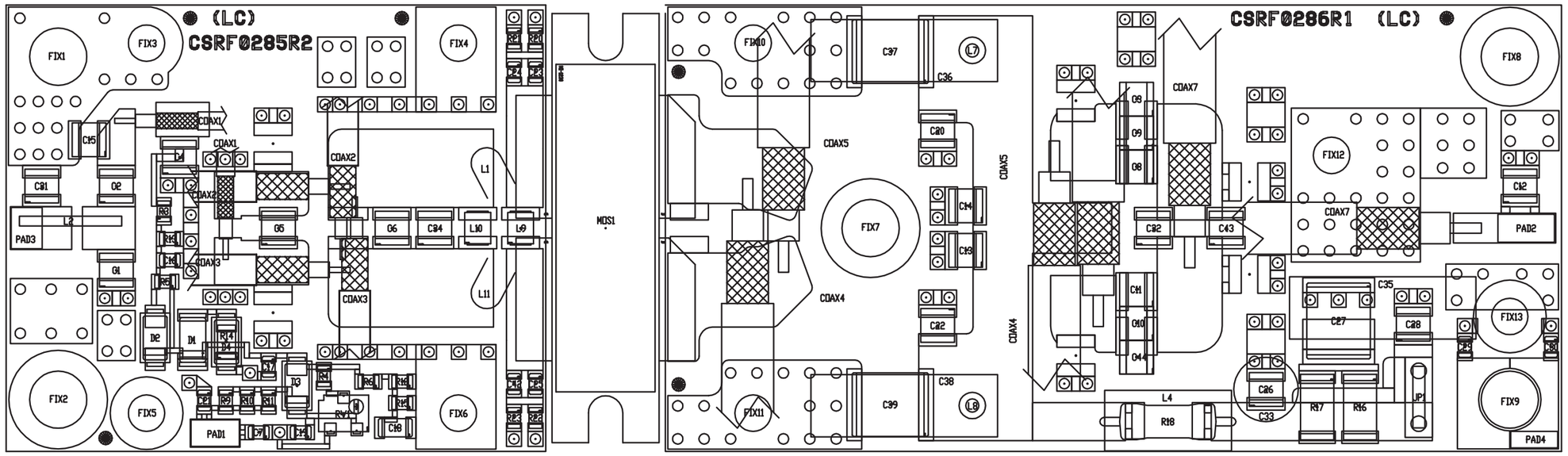


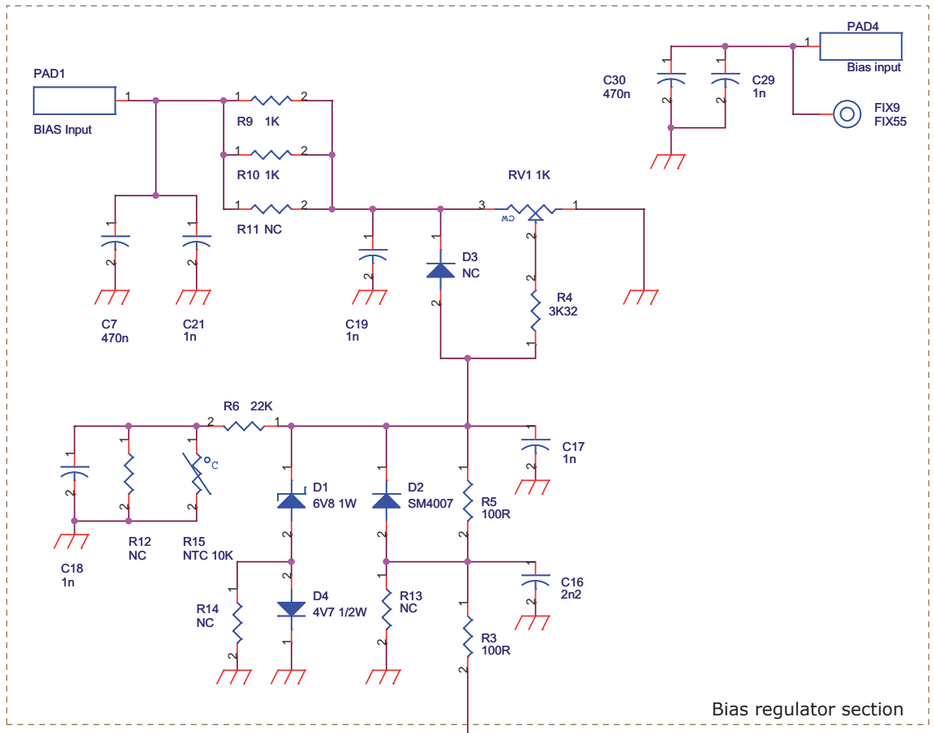
SL046IN1001

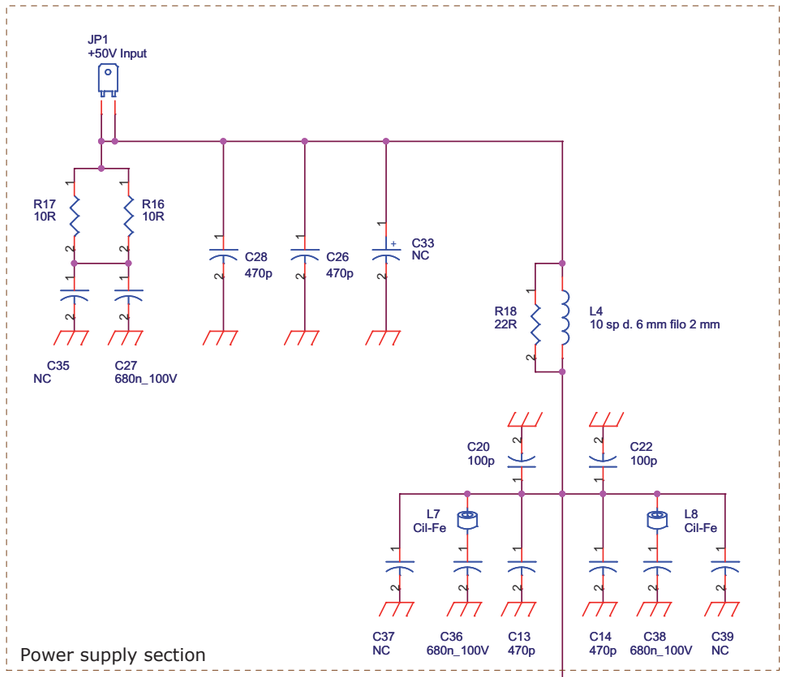
Blowers Connection RF Section
SL046IN1001
Revision: 1.0
PJ4000M-C
046
Mauro Ucelli
07/07/06

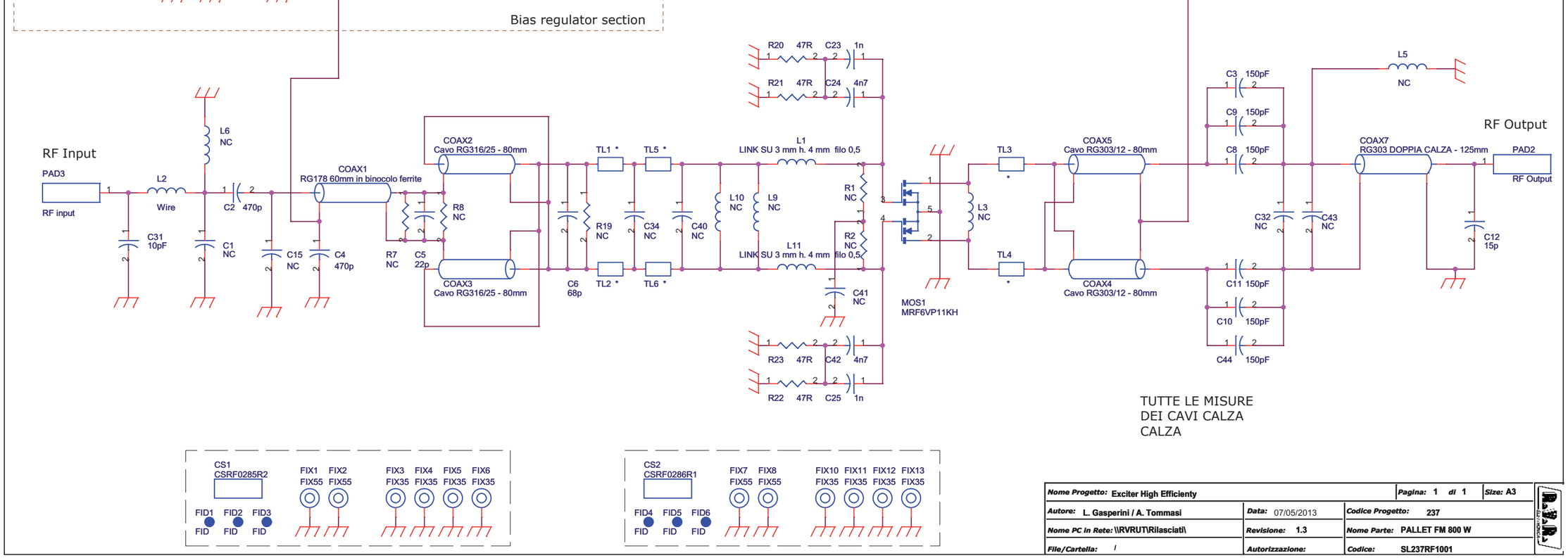
Item	Quantity	Reference	Part	Description	Code1
1	1	CN1	CN05KRA	Conn. tipo KRA a 5 poli	CNTMCS5P
2	1	CN2	CN04KRA	Conn. tipo KRA a 4 poli	CNTMCS4P
3	1	CS1	CSIN0089R1	Circuito stampato	CSIN0089R1
4	3	FIX1,FIX2,FIX3	FIX35	Foro fissaggio 3.5mm	
5	10	F1,F2,F3,F4,F5,F6,F7,F8, F9,F10	RXE110	Fusibile autorip. RXE p5mm	FUSAUTRX110A
6	1	R1	10R	Res. 1/4W 10H	RSM1/4F0010H

SL237RF1001





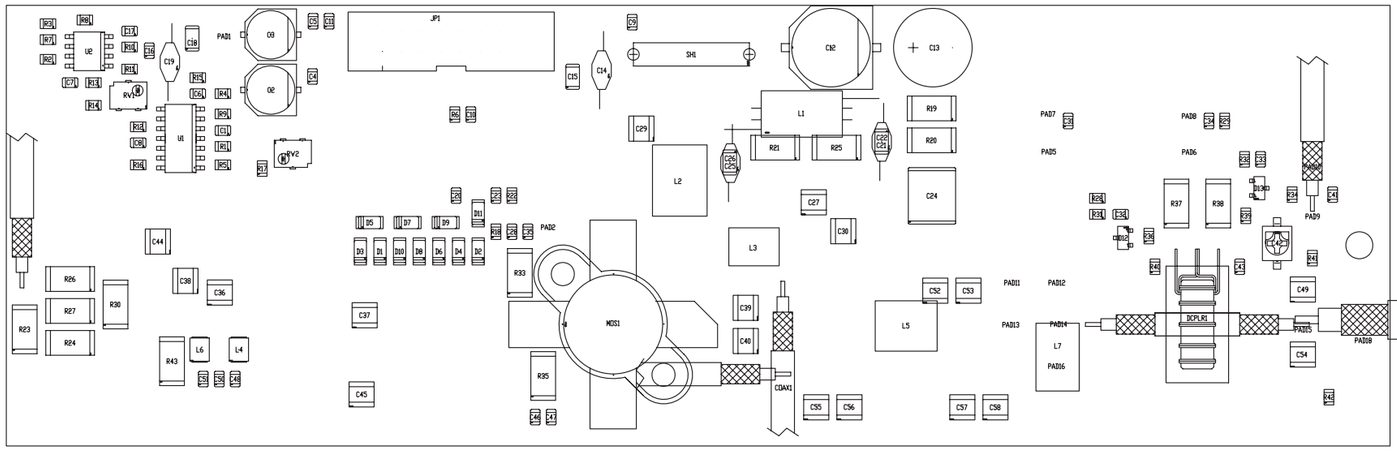




Nome Progetto: Exciter High Efficienty		**Pagina:** 1 di 1	**Size:** A3
Autore: L. Gasperini / A. Tommasi	**Data:** 07/05/2013	**Codice Progetto:** 237	
Nome PC in Rete: \\RVRUT\Rilasciati\	**Revisione:** 1.3	**Nome Parte:** PALLET FM 800 W	
File/Cartella: /	**Autorizzazione:**	**Codice:** SL237RF1001	

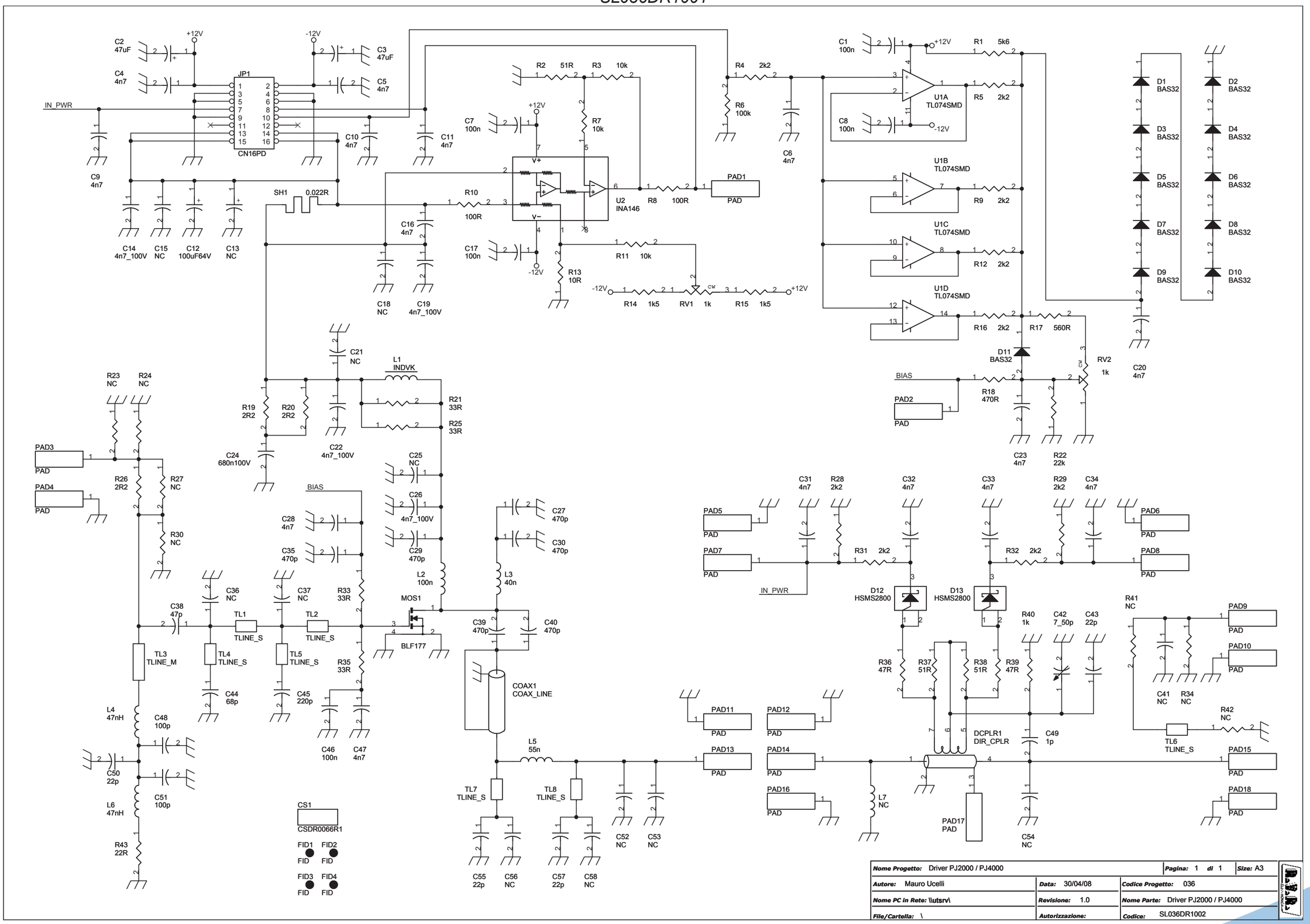
PALLET FM 800 W Revised: 07/05/2013
SL237RF1001 Revision: 1.3
Exciter High Efficienty
237
L. Gasperini / A. Tommasi

Item	Quantity	Reference	Part	{description}
1	1	COAX1	RG178 60mm in binocolo ferrite	Cavo RG178 60mm calza/calza in binocolo ferrite (73mm tot.)
2	2	COAX2, COAX3	Cavo RG316/25 - 80mm	Cavo RG316/25 80mm calza/calza (91mm tot.)
3	2	COAX5, COAX4	Cavo RG303/12 - 80mm	Cavo RG303/12 80mm calza/calza (98mm tot.)
4	1	COAX7	RG142 DOPPIA CALZA - 125mm	Cavo RG142 125mm calza/calza (147mm tot.) Vedi Info COAX7.pdf
5	1	CS1	CSRF0285R2	Circuito stampato
6	1	CS2	CSRF0286R1	Circuito stampato
7	1	C1	NC	Cond. SMD 0805
8	2	C2, C4	470p	Cond. SMD 1212 HQ
9	4	C13, C14, C26, C28	470p	Cond. SMD 1212 HQ
10	1	C30	470n	Cond. SMD 0805
11	1	C5	22p	Cond. SMD 1212 HQ
12	1	C6	68p	Cond. SMD 1212 HQ
13	2	C7	470n	Cond. SMD 0805
14	6	C3, C44, C8, C9, C10, C11	150pF	Cond. SMD 1212 HQ
15	1	C12	15p	Cond. SMD 1212 HQ
16	5	C15, C32, C34, C40, C43	NC	Cond. SMD 1212 HQ
17	1	C16	2n2	Cond. SMD 0805 COG
18	5	C17, C19, C21, C23, C25	1n	Cond. SMD 0805
19	1	C18	1n	Cond. SMD 1206
20	2	C22, C20	100p	Cond. SMD 1212 HQ
21	2	C42, C24	4n7	Cond. SMD 0805
22	1	C27	680nF 100V	Cond. SMD 2824
23	1	C31	10pF	Cond. SMD 1212 HQ
24	1	C29	1n	Cond. SMD 0805
25	3	C36, C38	680n_100V	Cond. Poliestere p 10mm
26	2	C37, C39	NC	Cond. Poliestere p 15mm
27	1	C41	NC	Cond. multistrato p 5mm
28	1	D1	6V8 1W	MELF SMD Zener Diode
29	1	D2	SM4007	Diodo SMD cont. SMA
30	1	D3	NC	Diodo SMD cont. SMA
31	1	D4	4V7 1/2W	MELF SMD Zener Diode
32	6	FID1, FID2, FID3, FID4, FID5, FID6	FID	Fiducial CS
33	5	FIX1, FIX2, FIX7, FIX8, FIX9	FIX55	Foro fissaggio 5.5mm
34	8	FIX3, FIX4, FIX5, FIX6, FIX10, FIX11, FIX12, FIX13	FIX35	Foro fissaggio 3.5mm
35	1	JP1	+50V Input	Faston da CS p. 5.08
36	2	L11, L1	LINK SU 3 mm h. 4 mm filo 0,5	LINK su 3 mm h. 4 mm filo 0,5
37	1	L2	Wire	Filo R. Arg. 1mm lung. 10mm
38	1	L3	NC	
39	1	L4	10 sp d. 6 mm filo 2 mm	10spire filo R. Smalt. 2mm Avvolte su 6mm includente R18 all'interno
40	2	L5, L9	NC	
41	1	L6	NC	
42	2	L7, L8	Cil-Fe	Cilindretto di ferrite
43	1	L10	NC	Ind. SMD 1008
44	1	MOS1	MRF6VP11KH	PP Power mosfet RF
45	2	PAD4, PAD1	BIAS Input	
46	1	PAD2	RF Output	
47	1	PAD3	RF input	
48	1	RV1	1K	Trimm. multi SMD PVG5 Murata
49	5	R1, R2, R7, R8, R19	NC	Res. 2W
50	2	R3, R5	100R	Res. SMD 0805 1%
51	1	R4	3K32	Res. SMD 0805 1%
52	1	R6	22K	Res. SMD 0805 1%
53	2	R10, R9	1K	Res. SMD 0805 1%
54	3	R11, R12, R13	NC	Res. SMD 0805 1%
55	1	R14	NC	Res. SMD 1206 1%
56	1	R15	NTC 10K	Res. NTC SMD 0805
57	2	R17, R16	10R	Res. SMD 2512 5%
58	1	R18	22R	Res. 2W
59	4	R20, R21, R22, R23	47R	Res. SMD 0805 1%
60	6	TL1, TL2, TL3, TL4, TL5, TL6	*	Linea strip CS
61	1		Ferrite balun	Ferrite balun



NOME PROGETTO:	DRIVER LOW POWER
AUTORE:	UCELLI
ARCHIVIAZIONE ELETTRONICA:	"CARTELLA PROGETTI" SU "UT_SRV"
MATERIALE:	<>
TRATTAMENTO:	<>
PROFILO:	<>
NOME PARTE:	DRIVER PJ2K/2K5/3K/3K5/4K
DATA:	30/04/08
REVISIONE:	1.1
SCALA:	1:1
SIZE:	A4
PAGINA:	1 DI 1
CODICE PROGETTO:	036
CODICE DISEGNO:	SL036DR1002
STATO:	ESECUTIVO

SL036DR1001



SL036DR1001

Driver PJ2000/PJ2500/PJ3000/PJ3500/PJ4000
SL036DR1002
Revision: 0.1
Driver PJ2000 / PJ4000
036
Mauro Ucelli
30/04/08

Item	Quantity	Reference	Part	Description	Code1
1	1	COAX1	COAX_LINE	Coax 25H taglio 225mm 4 spire su totoide D.24	
2	1	CS1	CSDR0066R1	Circuito stampato	CSDR0066R1
3	5	C1,C7,C8,C17,C46	100n	Cond. SMD 0805	CCC085104KXC
4	2	C3,C2	47uF	Cond. Elett. SMD d. 6.3mm	CES476C160A
5	15	C4,C5,C6,C9,C10,C11,C16, C20,C23,C28,C31,C32,C33, C34,C47	4n7	Cond. SMD 0805	CCC085472KXC
6	1	C12	100uF64V	Cond. Elett. SMD d. 10mm	CES107DE630
7	1	C13	NC	Cond. Elettr. Dia 10 P5.08	
8	4	C14,C19,C22,C26	4n7_100V	Cond. multistrato p 5mm	CMS472MC101
9	4	C15,C18,C21,C25	NC	Cond. SMD 1206	
10	1	C24	680n100V	Cond. SMD 2824	CPE684K101O
11	5	C27,C29,C30,C39,C40	470p	Cond. SMD 1212 HQ	CHQ471JA201
12	1	C35	470p	Cond. SMD 0805	CCC085471JCC
13	7	C36,C37,C52,C53,C54,C56, C58	NC	Cond. SMD 1212 HQ	
14	1	C38	47p	Cond. SMD 1212 HQ	CHQ470JA501
15	1	C41	NC	Cond. SMD 0805 COG	
16	1	C42	7_50p	Comp. var. Murata TZB4A	CVF500D4,5SM
17	1	C43	22p	Cond. SMD 0805	CCC085220JCC
18	1	C44	68p	Cond. SMD 1212 HQ	CHQ680JA501
19	1	C45	220p	Cond. SMD 1212 HQ	CHQ221JA201
20	2	C48,C51	100p	Cond. SMD 0805 COG	CCC085101JCC
21	1	C49	1p	Cond. SMD 1212 HQ	CHQ010CA501
22	1	C50	22p	Cond. SMD 0805 COG	CCC085220JCC
23	1	C55	22p	Cond. SMD 1212 HQ	CHQ220JA501
24	1	C57	22p	Cond. SMD 1212 HQ	CHQ220JA501
25	1	DCPLR1	DIR_CPLR	Accopp. direz.	KITFTR1010SP
26	11	D1,D2,D3,D4,D5,D6,D7,D8, D9,D10,D11	BAS32	MINIMELF SMD Diode	DISBAS32MINI
27	2	D13,D12	HSMS2800	Diodo Shottky SOT23	DISHSMS2800
28	4	FID1,FID2,FID3,FID4	FID	Fiducial CS	
29	1	JP1	CN16PD	Connettore 16 poli Flat cs	CNTMCS16A
30	1	L1	INDVK	Induttanza cilindrica VK200	IMPVK00A
31	1	L2	100n	5 spire filo 1mm avvolte su 6mm lungh. 10mm	BOB01020006A
32	1	L3	40n	2 spire filo 1mm avvolte su 6mm lungh. 4mm	BOB01020019A
33	2	L4,L6	47nH	Induttanza SMD 3225 (1210)	IMP47NS120
34	1	L5	55n	4 spire filo 1mm avvolte su 6mm lungh. 14mm	BOB01020005A
35	1	L7	NC	Induttanza cilindrica	
36	1	MOS1	BLF177	Power mosfet RF	TRNBLF177
37	18	PAD1,PAD2,PAD3,PAD4,PAD5, PAD6,PAD7,PAD8,PAD9, PAD10,PAD11,PAD12,PAD13, PAD14,PAD15,PAD16,PAD17, PAD18	PAD		
38	2	RV1,RV2	1k	Trimm. multi SMD PVG5 Murata	RVTMLK0001VS
39	1	R1	5k6	Res. SMD 0805	RCH085F005K6
40	1	R2	51R	Res. SMD 0805	RCH085F0051H
41	3	R3,R7,R11	10k	Res. SMD 0805	RCH085F0010K
42	9	R4,R5,R9,R12,R16,R28,R29, R31,R32	2k2	Res. SMD 0805	RCH085F002K2
43	1	R6	100k	Res. SMD 0805	RCH063F0100K
44	2	R8,R10	100R	Res. SMD 0805	RCH085F0100H
45	1	R13	10R	Res. SMD 0805	RCH085F0010H
46	2	R14,R15	1k5	Res. SMD 0805	RCH085F001K5
47	1	R17	560R	Res. SMD 0805	RCH085F0560H
48	1	R18	470R	Res. SMD 0805	RCH085F0470H
49	2	R20,R19	2R2	Res. SMD 2512 1%	RCH252J002H2
50	4	R21,R25,R33,R35	33R	Res. SMD 2512 1%	RCH252J0033H
51	1	R22	22k	Res. SMD 0805	RCH085F0022K
52	2	R30,R23	NC	Res. SMD 2512 1%	
53	2	R24,R27	NC	Res. SMD 2512 1%	
54	1	R43	22R	Res. SMD 2512 1%	RCH252F0022H
55	3	R34,R41,R42	NC	Res. SMD 0805	
56	2	R39,R36	47R	Res. SMD 0805	RCH085F0047H
57	2	R38,R37	51R	Res. SMD 2512 1%	RCH252J0051H
58	1	R40	1k	Res. SMD 0805	RCH085F0001K
59	1	SH1	0.022R	Shunt passo 15.2mm fori 2mm	RSH10A0H022
60	7	TL1,TL2,TL4,TL5,TL6,TL7, TL8	TLINE_S	Linea strip CS	
61	1	TL3	TLINE_M	Linea strip CS	
62	1	U1	TL074SMD	Quad Op. SMD SO14	CILTL074SMD
63	1	U2	INA146	HV Diff. Amp. Adj	CILINA146
64	1	R26	2R2	Res. SMD 2512 1%	RCH252J002H2