



AMPLIFIERS

THESLA AMP5K / AMP6K

TECHNICAL ANNEX

VOLUME 1



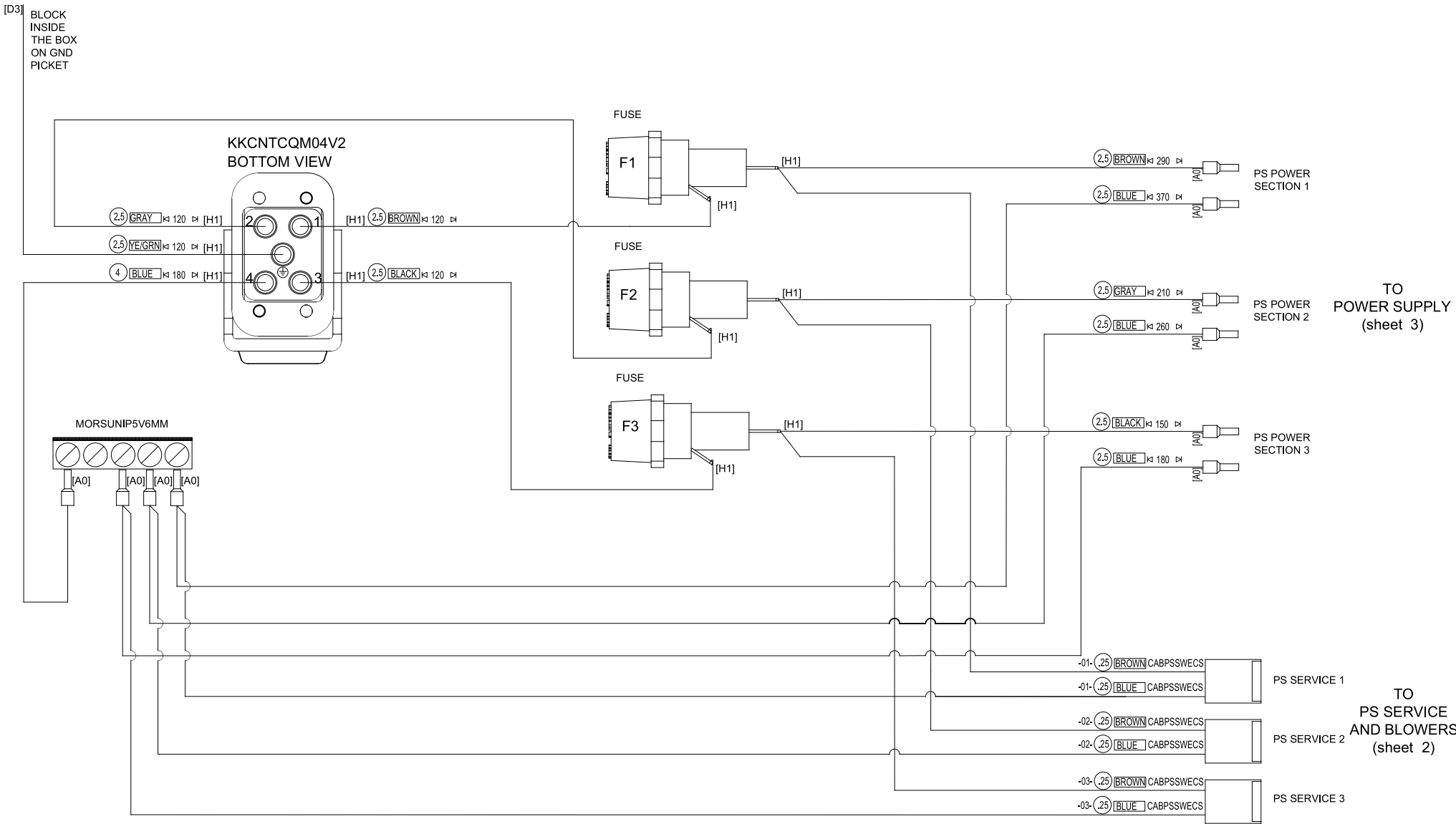
Component layouts, schematics, bills of material

This part of the manual contains the technical details about the different Cards of the Thesla AMP5K / AMP6K . This appendix is composed of the following

Description	Code	Page
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Power Input Measure Card	SLMT0450R01V01	9
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Date	Version	Reason	Code	Editor
15/08/2020	1.0	First Release		Carlos André

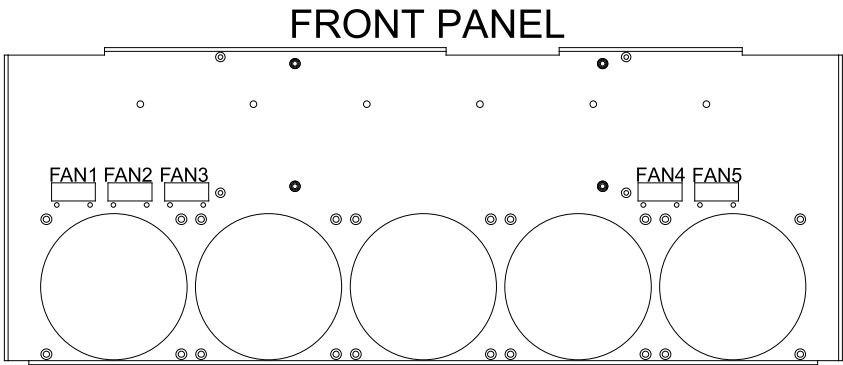
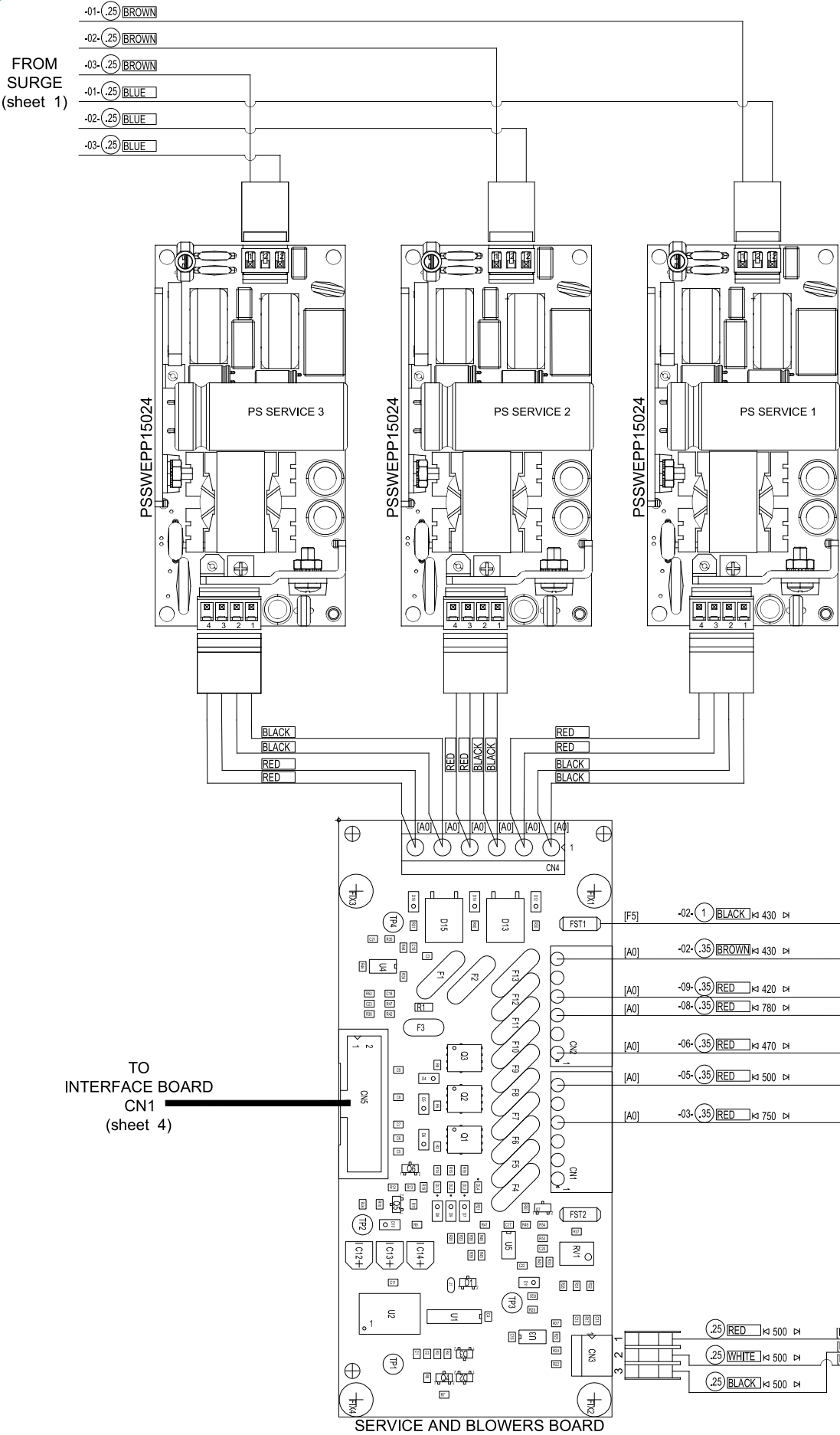
THREE-PHASE 380V Y CONFIGURATION



WIRES INFO	
-36-	WIRE IDENTIFICATION # (OPTIONAL)
WHITE	PLASTIC INSULATOR COLOUR
1.5	CONDUCTOR SECTION AREA IN mm²
1400	LENGTH IN mm SEE EXAMPLES BELOW :

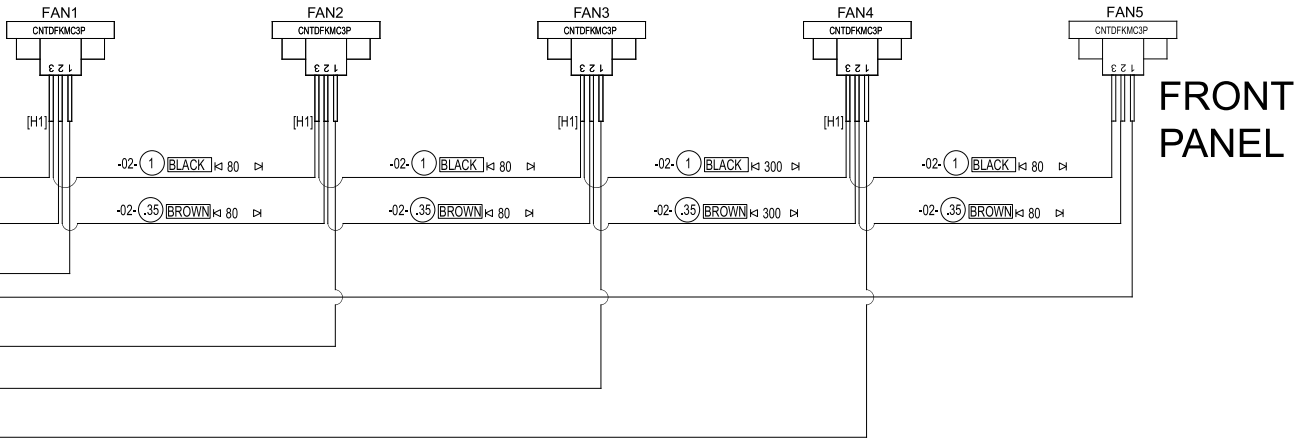
TERMINAL IDENTIFIER	TERMINAL TYPOLOGY
[A0]	BOOTLACE FERRULES (SINGLE WIRE)
[H1]	WIRE UNSHEATHED
[D3]	

	PRODUCT NAME : PJ5000U-K	PART NAME : SURGE	
	DESIGNER : A. Franceschi	DATE 22/06/2018	REVIS.: 1.3 SCALE 1:1 SIZE A3 PAGE : 1 DI 7
ARCHIVING : "RVRUT" SERVER, "RILASCIATI" FOLDER		PROJECT CODE : 245	DOCUMENT CODE : <>

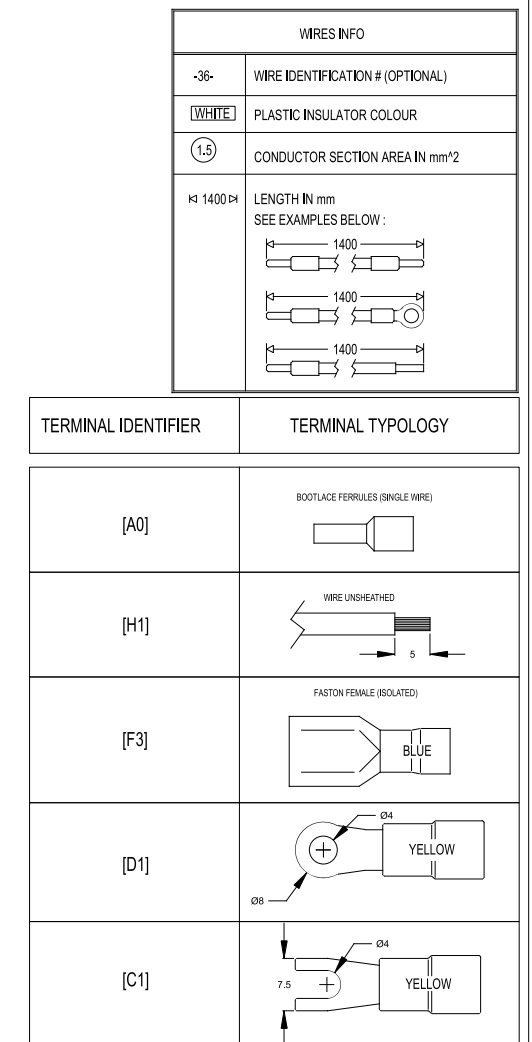


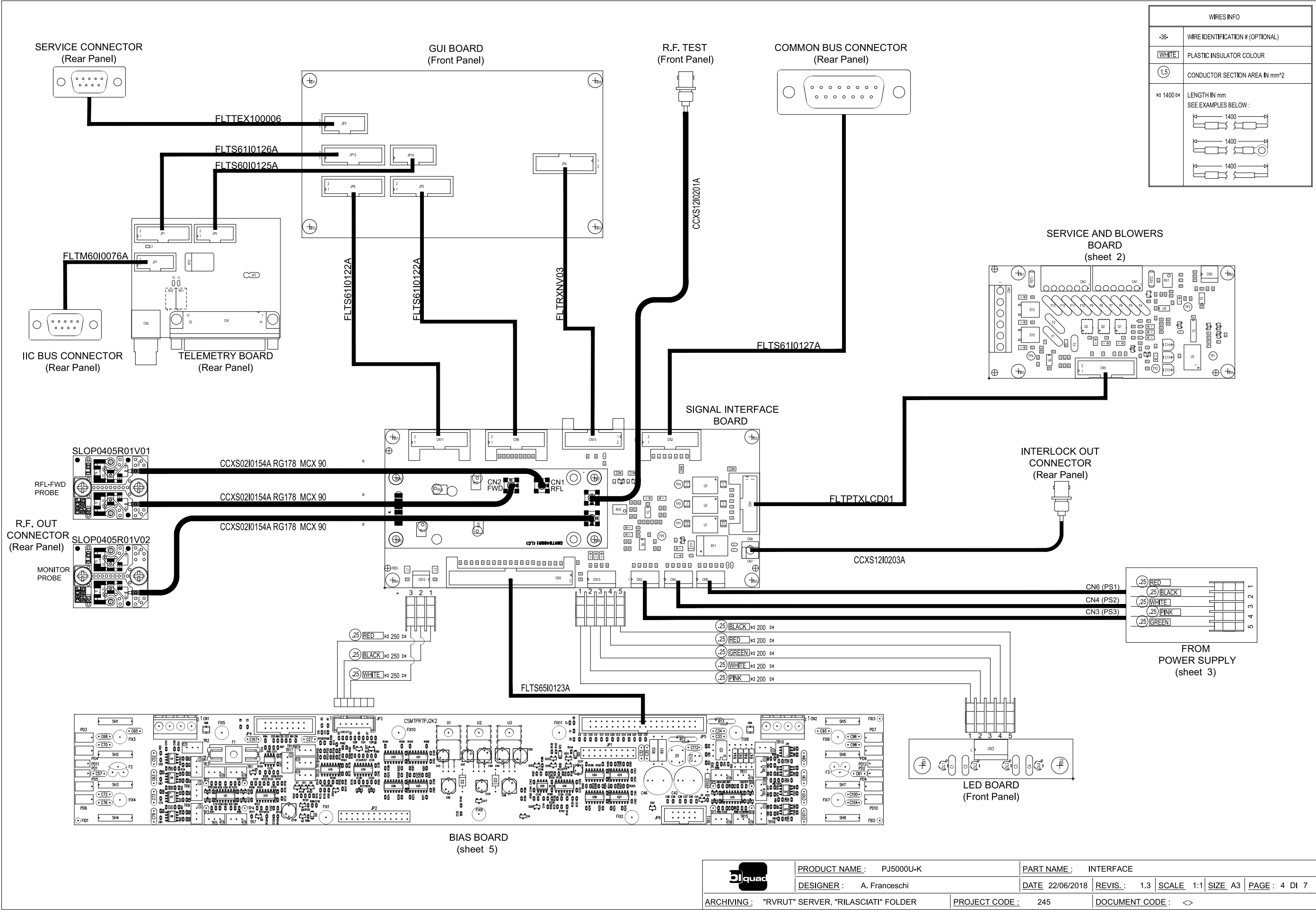
WIRES INFO	
-36-	WIRE IDENTIFICATION # (OPTIONAL)
WHITE	PLASTIC INSULATOR COLOUR
1.5	CONDUCTOR SECTION AREA IN mm²
≤ 1400	LENGTH IN mm SEE EXAMPLES BELOW :

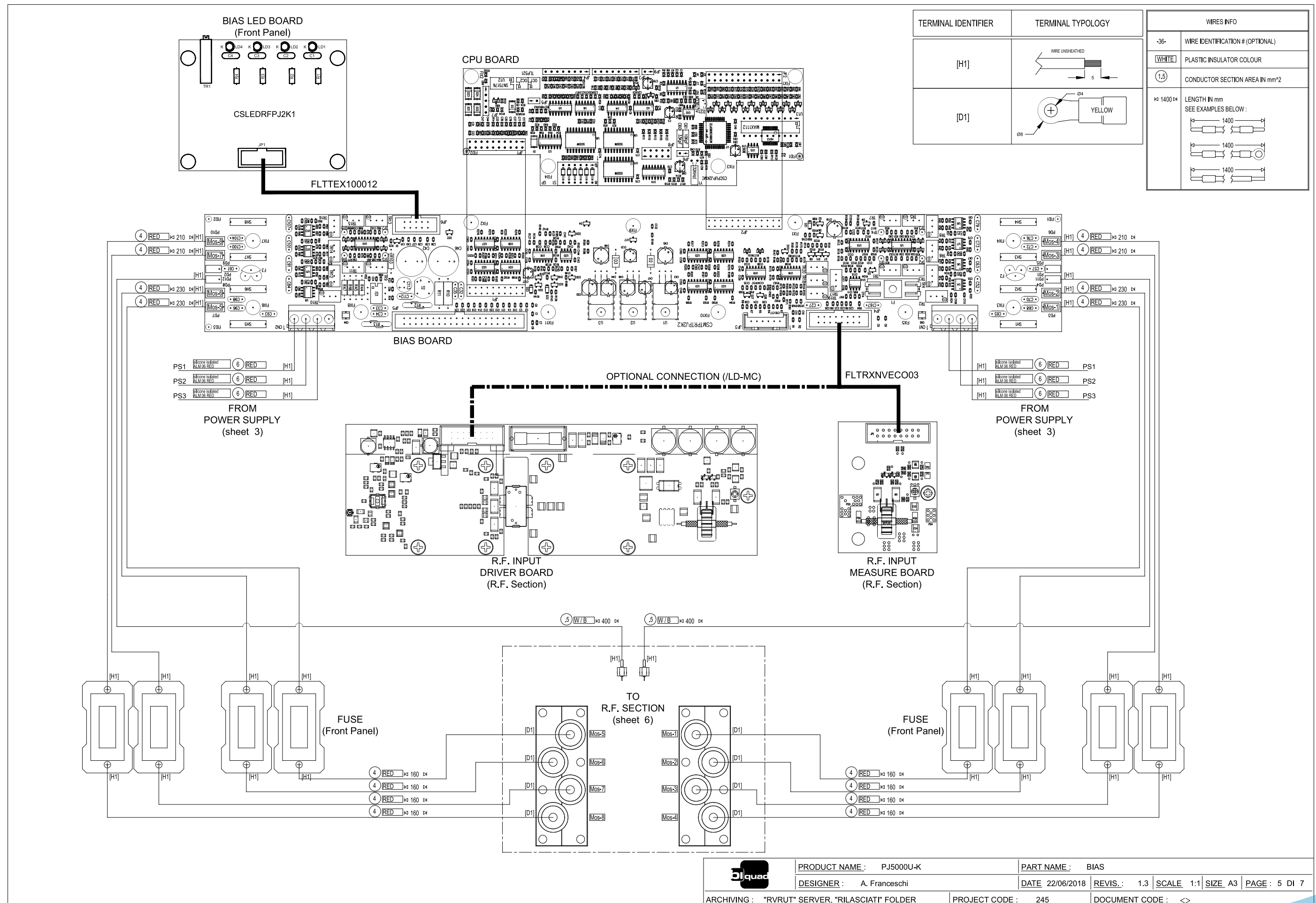
TERMINAL IDENTIFIER	TERMINAL TYPOLOGY
[A0]	BOOTLACE FERRULES (SINGLE WIRE)
[H1]	WIRE UNSHEATHED
[F5]	FASTON FEMALE (ANGLED)

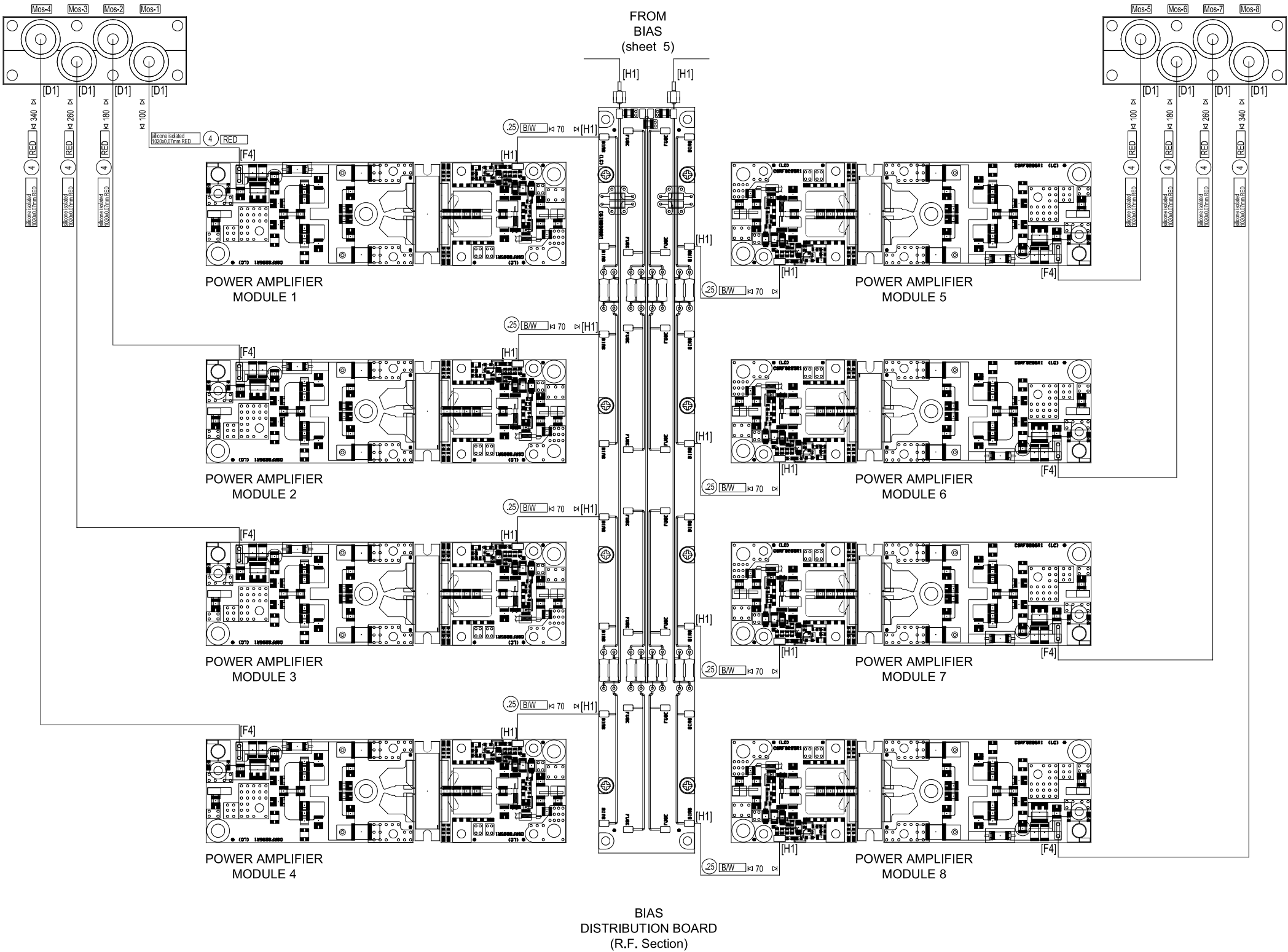


	PRODUCT NAME : PJ5000U-K	PART NAME : PS SERVICE & BLOWER
	DESIGNER : A. Franceschi	DATE 22/06/2018 REVIS.: 1.3 SCALE 1:1 SIZE A3 PAGE : 2 DI 7
ARCHIVING : "RVUT" SERVER, "RILASCIATI" FOLDER		PROJECT CODE : 245 DOCUMENT CODE : <>

03/ 97



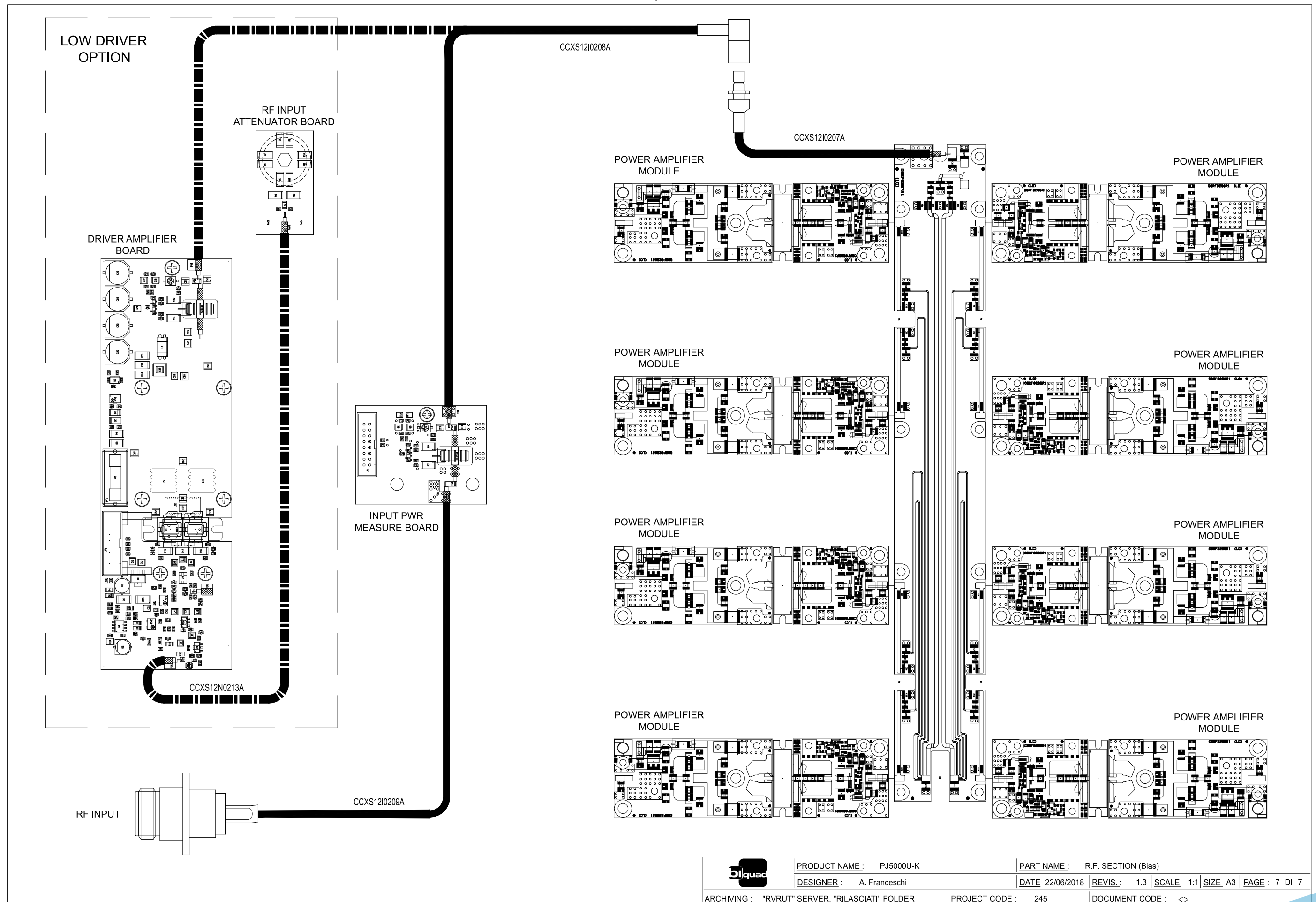


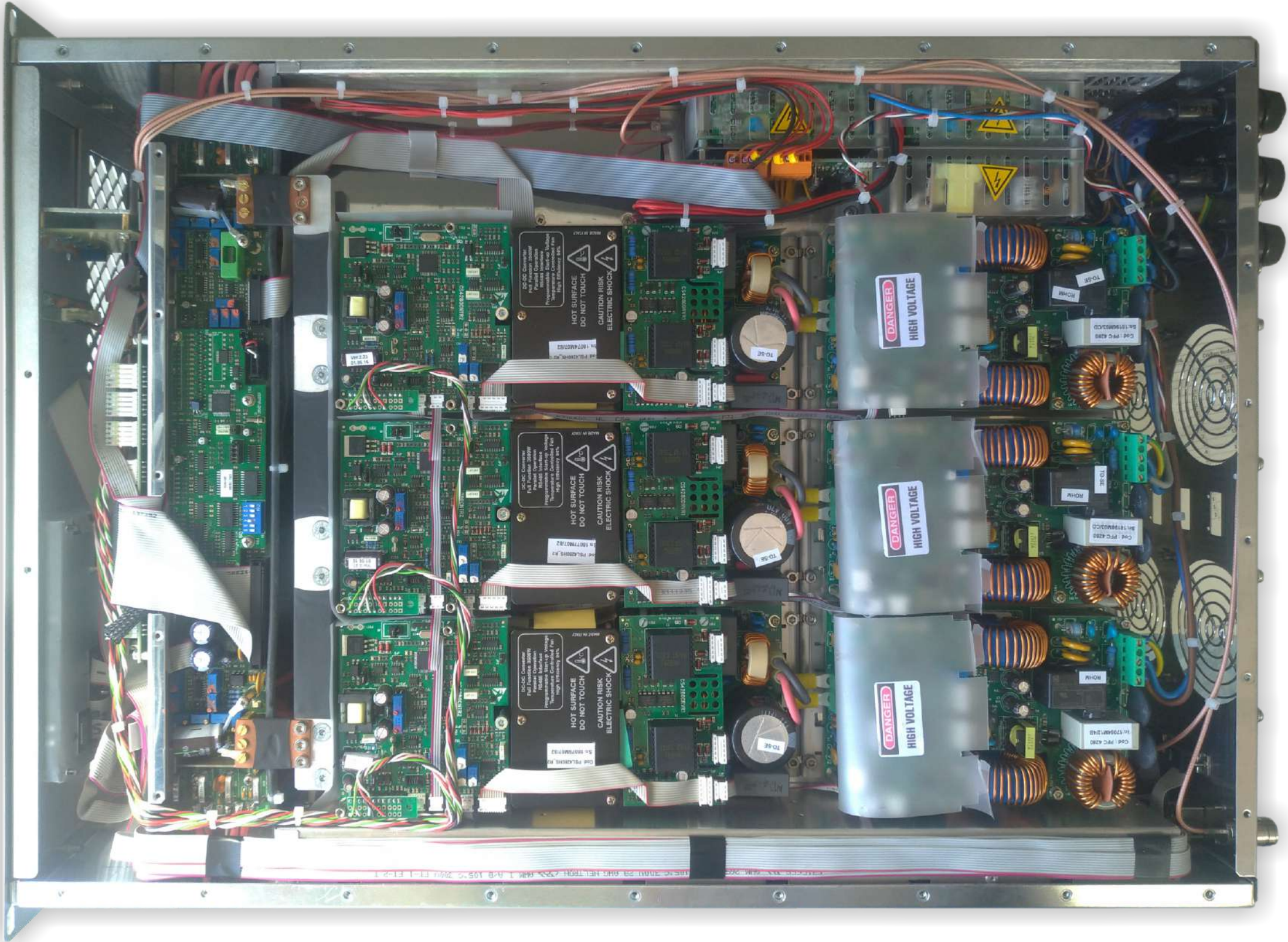


WIRES INFO	
-36-	WIRE IDENTIFICATION # (OPTIONAL)
[WHITE]	PLASTIC INSULATOR COLOUR
(1.5)	CONDUCTOR SECTION AREA IN mm²
≤ 1400	LENGTH IN mm SEE EXAMPLES BELOW :

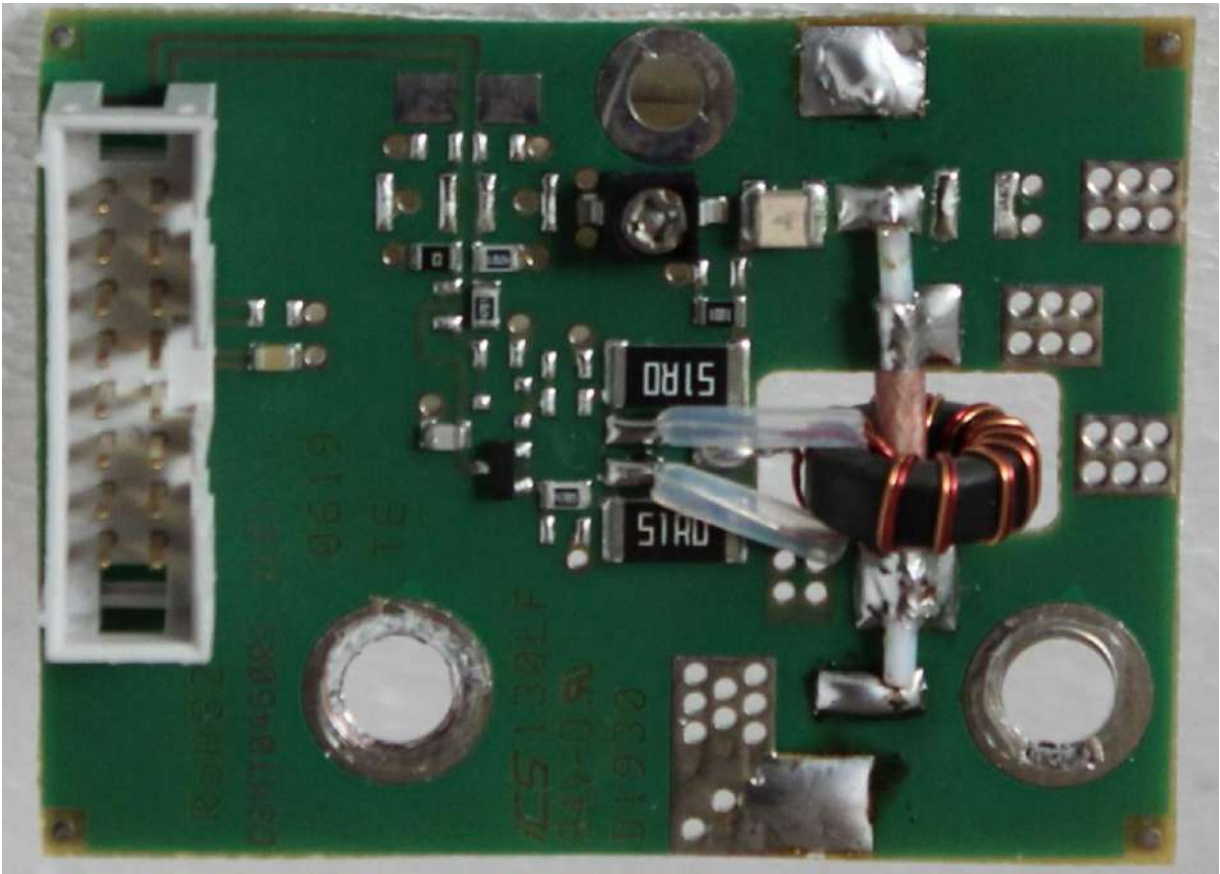
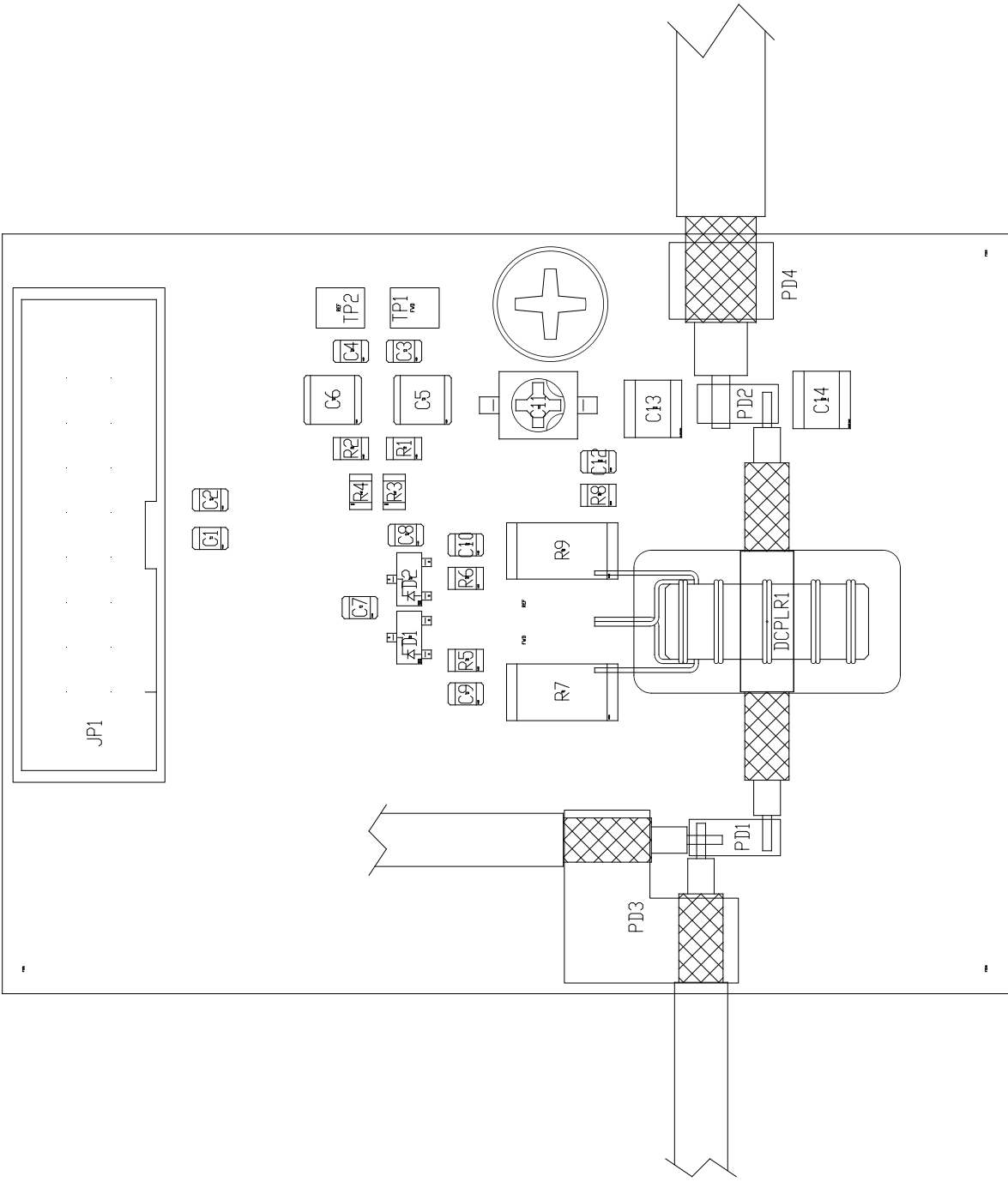
TERMINAL IDENTIFIER	TERMINAL TYPOLOGY
[H1]	
[D1]	
[F4]	

	PRODUCT NAME : PJ5000U-K	PART NAME : R.F. SECTION (Bias)
	DESIGNER : A. Franceschi	DATE 22/06/2018 REVIS. 1.3 SCALE 1:1 SIZE A3 PAGE : 6 DI 7
ARCHIVING : "RVRTUT" SERVER, "RILASCIAT" FOLDER		PROJECT CODE : 245 DOCUMENT CODE : <>

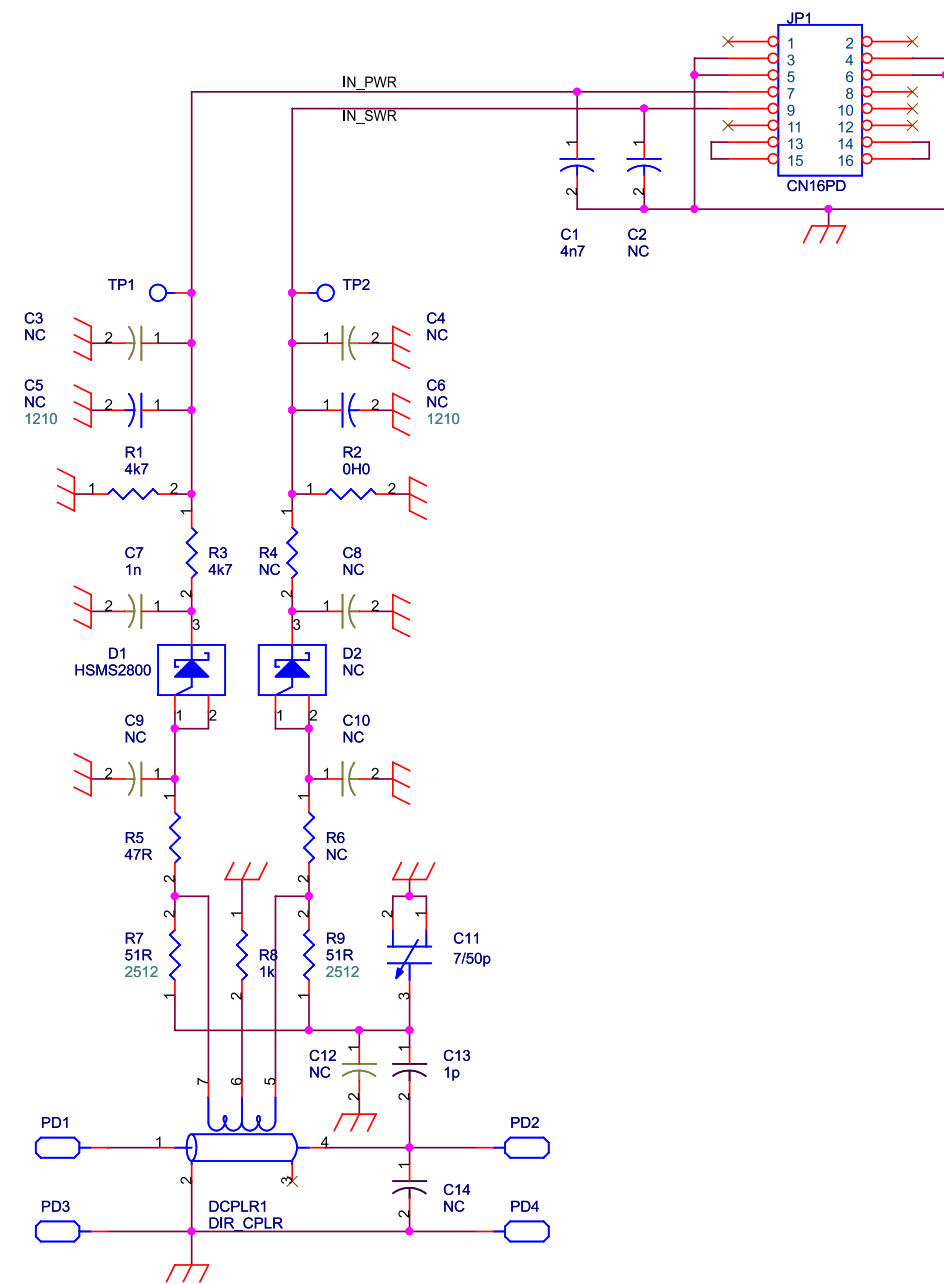




SLMT0450R01V01



SLMT0450R01V01



CS1
CSMT0450R1

FID1
FID

FID2
FID

FID3
FID

FID4
FID

Description: SEM.SCH. INPUT PWR MEASURE		
Designer: M. Ucelli; A. Franceschi	Size: A3	Page: 1 of 1
Part No.: SLMT0450R01V01	Rev. 1.1	Date: 15/11/2017

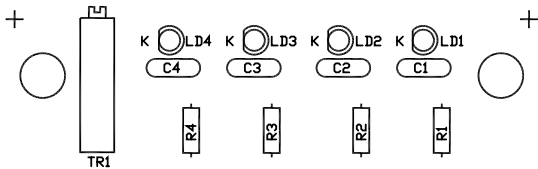


SLMT0450R01V01

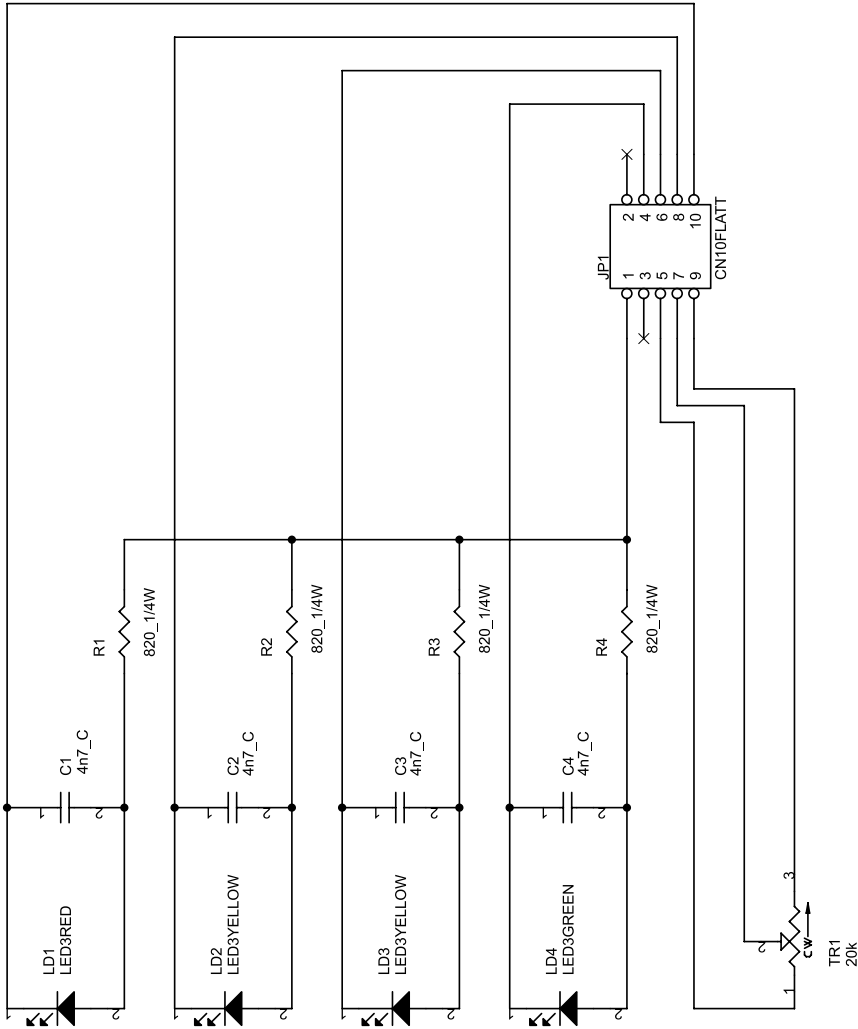
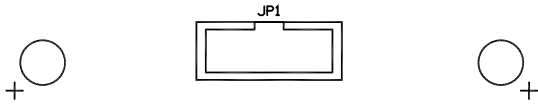
SEM.SCH. INPUT PWR MEASURE
SLMT0450R01V01
Revision: 1.1 Date: 15/11/2017
M. Ucelli; A. Franceschi


Item	Quantity	Reference	Part	Description
1	1	CS1	CSMT0450R1	Printed Circuit
2	1	C1	4n7	SMD 0805 MLCC X7R
3	1	C2	NC	SMD 0805 MLCC X7R
4	5	C3,C4,C9,C10,C12	NC	Cond. SMD 0805 COG
5	2	C5,C6	NC	Capacitor SMD 1210 MLCC X7R
6	1	C7	1n	Cond. SMD 0805 COG
7	1	C8	NC	Cond. SMD 0805 COG
8	1	C11	7/50p	Adj. Cap 7 / 50pF
9	1	C13	1p	Cond. SMD 1212 HQ
10	1	C14	NC	Cond. SMD 1212 HQ
11	1	DCPLR1	DIR_CPLR	Toroidal Directional Coupler
12	1	D1	HSMS2800	Hot Carrier Schottky Diode
13	1	D2	NC	Hot Carrier Schottky Diode
14	4	FID1,FID2,FID3,FID4	FID	Fiducial CS
15	1	JP1	CN16PD	16-pin Flat cs connector
16	4	PD1,PD2,PD3,PD4	PAD	Pad for connection
17	1	R1,R3	4k7	Res. SMD 0805
18	1	R2	0H0	Res. SMD 0805
19	2	R4,R6	NC	Res. SMD 0805
20	1	R5	47R	Res. SMD 0805
21	2	R7,R9	51R	Res. SMD 2512 1%
22	1	R8	1k	Res. SMD 0805
23	2	TP1,TP2	TP	Test point

SLLEDRFPJ2K1



CSLEDRFPJ2K1



	PROJECT NAME: HC5-10		PART NAME: LED RF BOARD				
	AUTHOR: GP - Rev.: Berti J.		DATE: 11/02/2004	REVISION: 1.0	ACALE: 1:1	SIZE: A4	PAGE: 1 DI 1
ELETRONIC STORAGE: "CARTELLA PROGETTI" SU "UT_SRV"		PROJECT CODE: 014		DESIGN CODE: SLLEDRFPJ2K1			
MATERIAL: FR4-74 1.6mm Cu 35um		TREATMENT: STANDARD COSTRUTTORE		PROFILE: POSITIVE		STATE: EXECUTIVE	

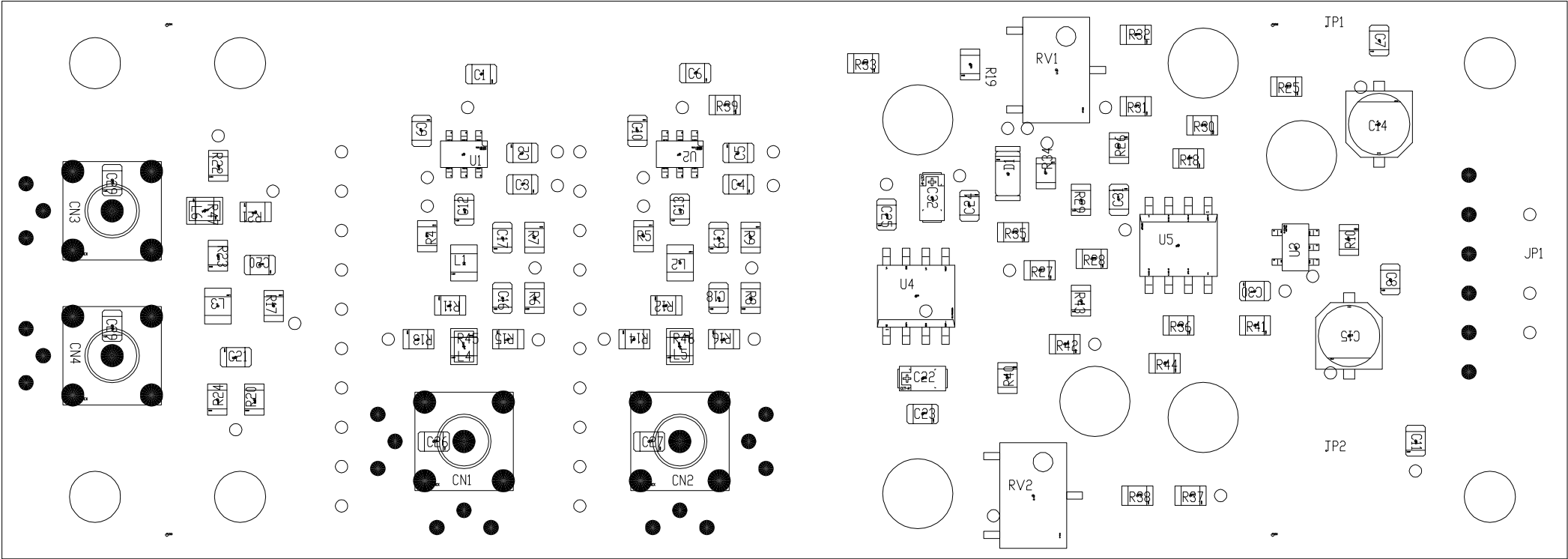
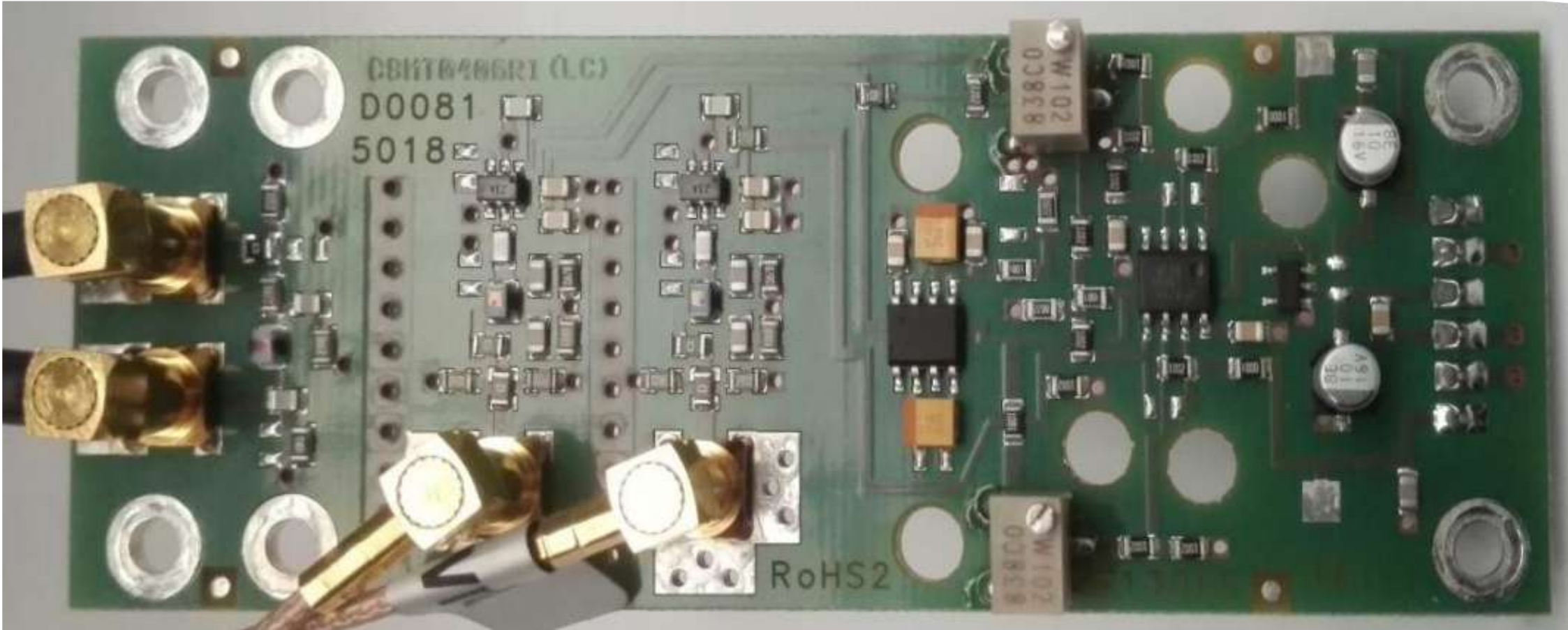
PROJECT NAME: HC5-10		PAGE: 1 di 1		A4
AUTHOR: Mauro Ucelli		Date: 28/02/02		PROJECT CODE: 014
PC name on the network: Mauro2		REVISION: 1.0		PART NAME: LEDs board RF section
File/Cella: Y:\C-112\scat\05\Berti\Berti\CSLEDRFPJ2K1		Authorization:		CODE: SLLEDRFPJ2K1


SLLEDRFPJ2K1

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

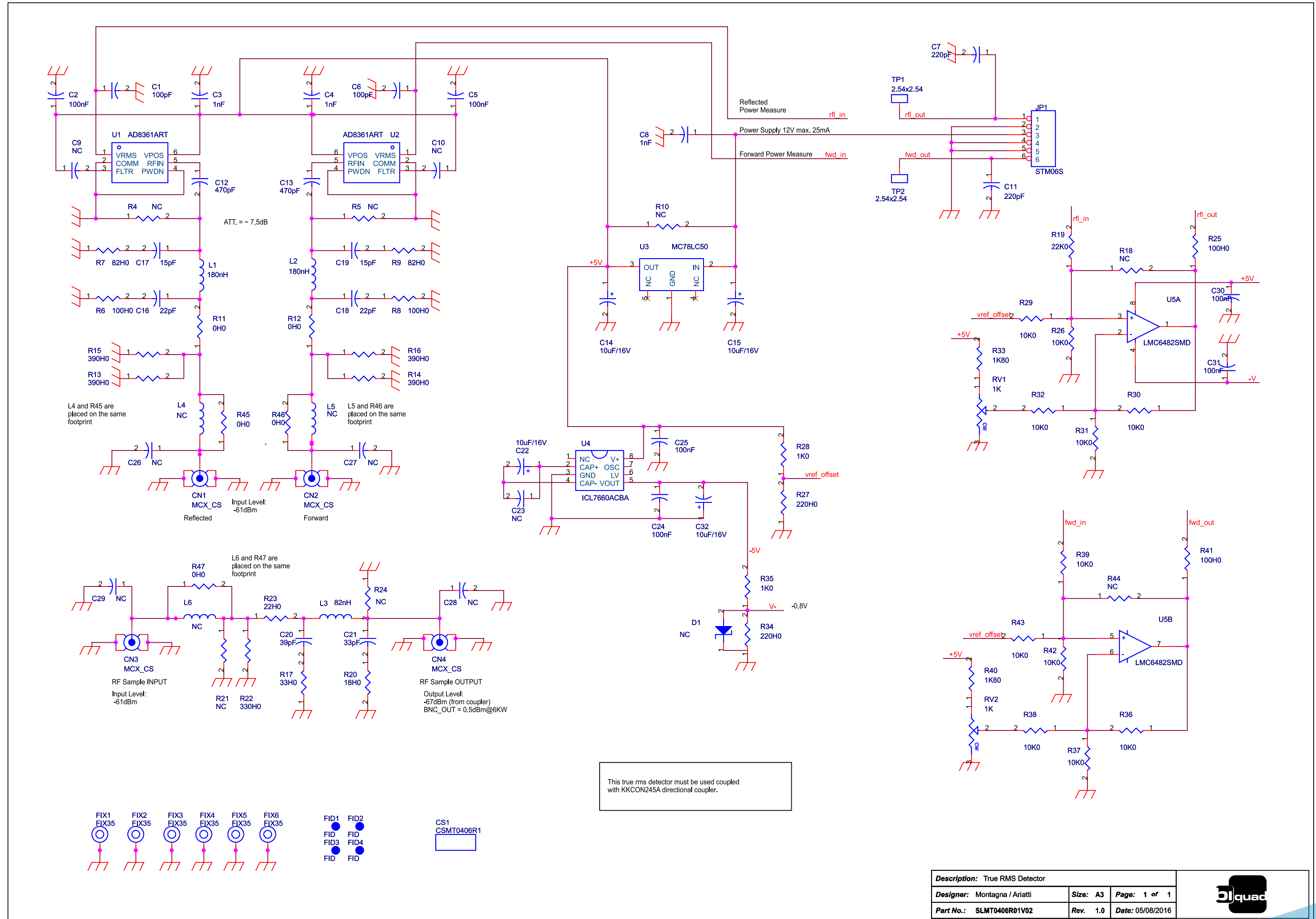
Item	Quantity	Reference	Part	Description
1	4	C1, C2, C3, C4	4n7_C	COND.CER. 4NF7 P5,08 10% 60V N150
2	1	JP1	CN10FLATT	10p connector for Flatt straight
3	1	LD1	LED3RED	LED diode 3mm Red
4	2	LD2, LD3	LED3YELLOW	LED diode 3mm Yellow
5	1	LD4	LED3GREEN	LED diode 3mm Green
6	4	R1, R2, R3, R4	820_1/4W	Resistance 820 Ohm 1/4W
7	1	TR1	20k	20k multigiri trimmer reg. on the side in content stretched (L623)

SLMT0406R01V02



	<u>PROJECT NAME:</u> ATVCA2KOLU		<u>PART NAME:</u> SEM.SCH. TRUE RMS DETECTOR ADD-ON				
	<u>AUTHOR:</u> E. MONTANA		<u>DATE:</u> 27/03/2014	<u>REVISION:</u> 1.0	<u>SCALE:</u> 2:1	<u>SIZE:</u> A4	<u>PAGE:</u> 1 DI 1
	<u>ELECTRONIC STORAGE:</u>		<u>PROJECT CODE:</u> 190	<u>DESIGN CODE:</u> SLMT0406R01V01			
	<u>MATERIAL:</u> <>		<u>TREATMENT:</u> <>	<u>PROFILE:</u> <>		<u>STATE:</u> EXECUTIVE	

SLMT0406R01V02



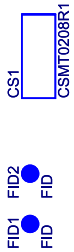
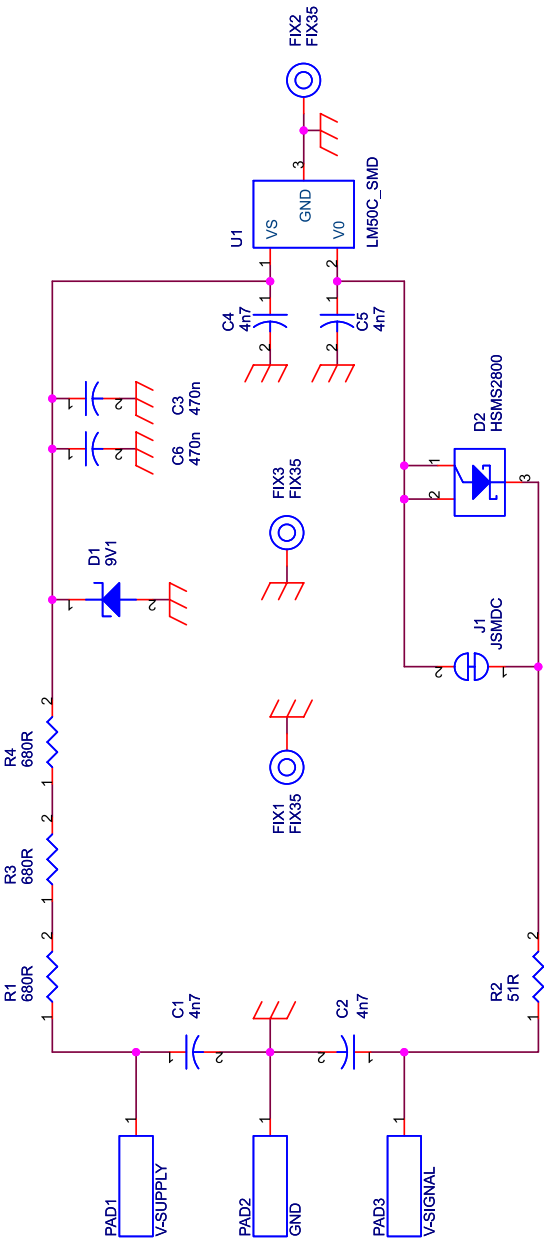
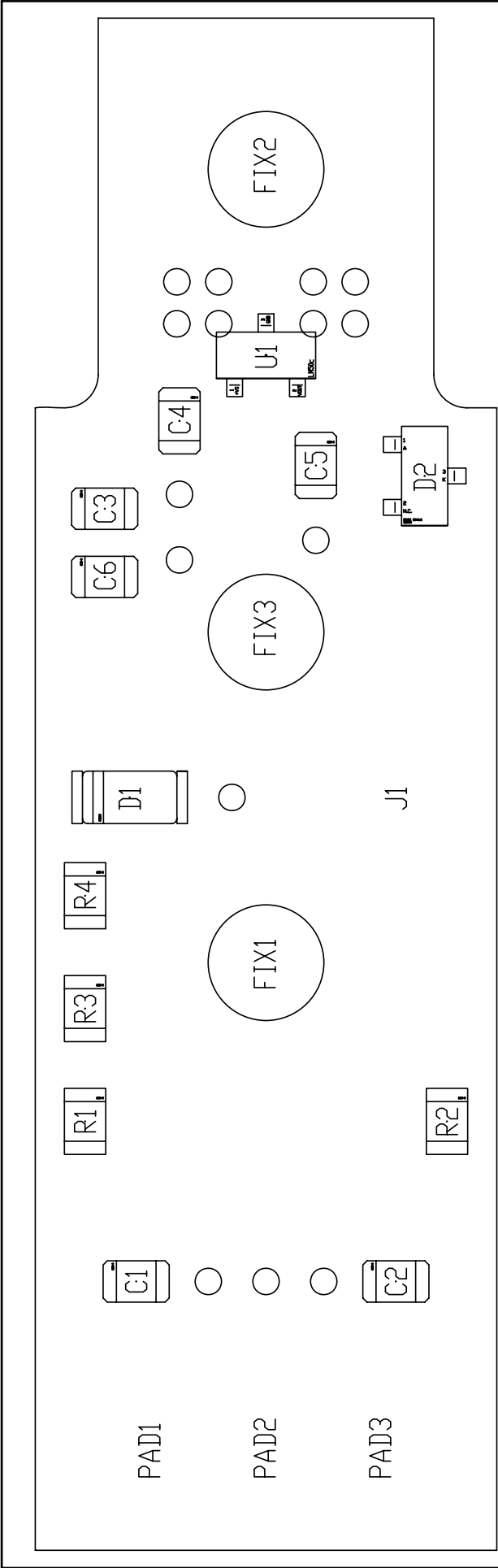


SLMT0406R01V02

True RMS Detector Revised: Friday, August 05, 2016
 SLMT0406R01V02 Revision: 1.0
 Montagna / Ariatti

Item	Quantity	Reference	Part	Description
1	4	CN1, CN2, CN3, CN4	MCX_CS	MCX CS Connetor
2	1	CS1	CSMT0406R1	Printed Circuit
3	2	C1, C6	100pF	Cond. SMD 0805
4	6	C2, C5, C24, C25, C30, C31	100nF	Cond. SMD 0805
5	3	C3, C4, C8	1nF	Cond. SMD 0805
6	2	C7, C11	220pF	Cond. SMD 0805
7	7	C9, C10, C23, C26, C27, C28, C29	NC	Cond. SMD 0805
8	2	C12, C13	470pF	Cond. SMD 0805
9	2	C14, C15	10uF/16V	Cond. Elett. SMD d. 4mm
10	2	C16, C18	22pF	Cond. SMD 0805
11	2	C17, C19	15pF	Cond. SMD 0805
12	1	C20	39pF	Cond. SMD 0805
13	1	C21	33pF	Cond. SMD 0805
14	2	C22, C32	10uF/16V	Cond. Elett. SMD tant. size A
15	1	D1	NC	MINIMELF SMD Zener Diode
16	4	FID1, FID2, FID3, FID4	FID	Fiducial CS
17	6	FIX1, FIX2, FIX3, FIX4, FIX5, FIX6	FIX35	Fixing hole 3.5mm
18	1	JP1	STM06S	Male strip 6 pin
19	2	L1, L2	180nH	Inductance SMD 2012 (0805)
20	1	L3	82nH	Inductance SMD 2012 (0805)
21	3	L4, L5, L6	NC	Inductance SMD 2012 (0805)
22	2	RV1, RV2	1K	Trimmer Rg V 3269W SMD
23	7	R4, R5, R10, R18, R21, R24, R44	NC	Res. SMD 0805 1%
24	4	R6, R8, R25, R41	100H0	Res. SMD 0805 1%
25	2	R7, R9	82H0	Res. SMD 0805 1%
26	5	R11, R12, R45, R46, R47	0H0	Res. SMD 0805 1%
27	4	R13, R14, R15, R16	390H0	Res. SMD 0805 1%
28	1	R17	33H0	Res. SMD 0805 1%
29	1	R19	22K0	Res. SMD 0805 1%
30	1	R20	18H0	Res. SMD 0805 1%
31	1	R22	330H0	Res. SMD 0805 1%
32	1	R23	22H0	Res. SMD 0805 1%
33	11	R26, R29, R30, R31, R32, R36, R37, R38, R39, R42, R43	10K0	Res. SMD 0805 1%
34	2	R27, R34	220H0	Res. SMD 0805 1%
35	2	R28, R35	1K0	Res. SMD 0805 1%
36	2	R33, R40	1K80	Res. SMD 0805 1%
37	2	TP1, TP2	2.54x2.54	Piazzola SMD
38	2	U1, U2	AD8361ART	RF Power detector
39	1	U3	MC78LC50	Stab. SMD SOT23-5
40	1	U4	ICL7660ACBA	Switched capacitor supply inverter
41	1	U5	LMC6482SMD	Dual R/R op. amp.

SL024MT1001



Project Name: Thermal Probe		Page: 1 of 1	Size: A4
Designer: Mauro Ucelli	Date: Tuesday, April 13, 2010	Project Code: RVR_024	
File Location: \\	Revision: 1.0	Description: Thermal Probe	
Folder/File: /	Approval:	Part No.: SL024MT1001	

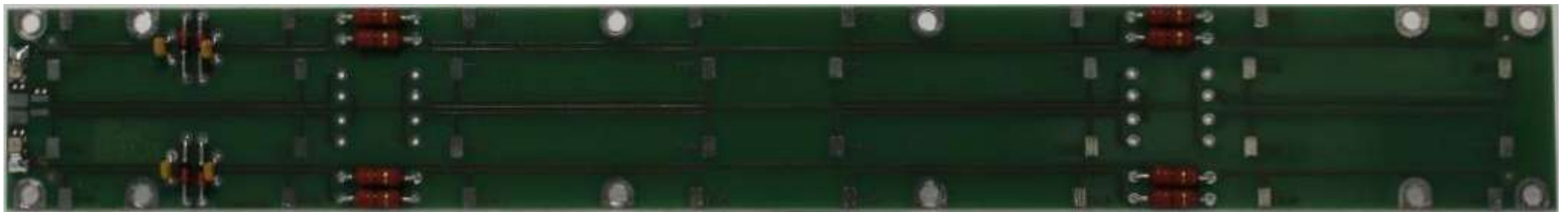
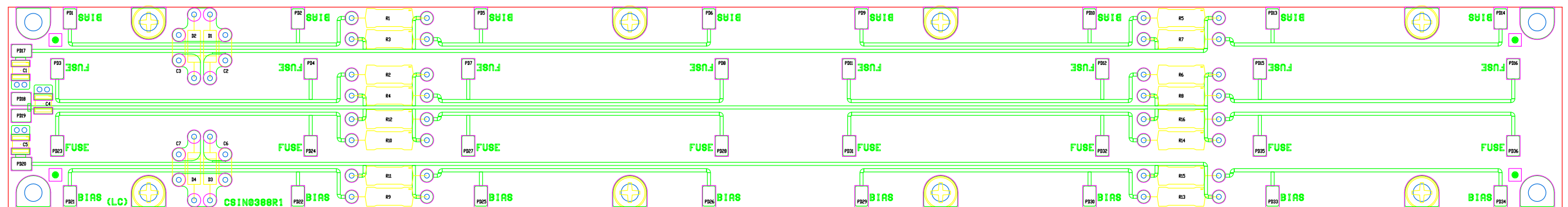


SL024MT1001

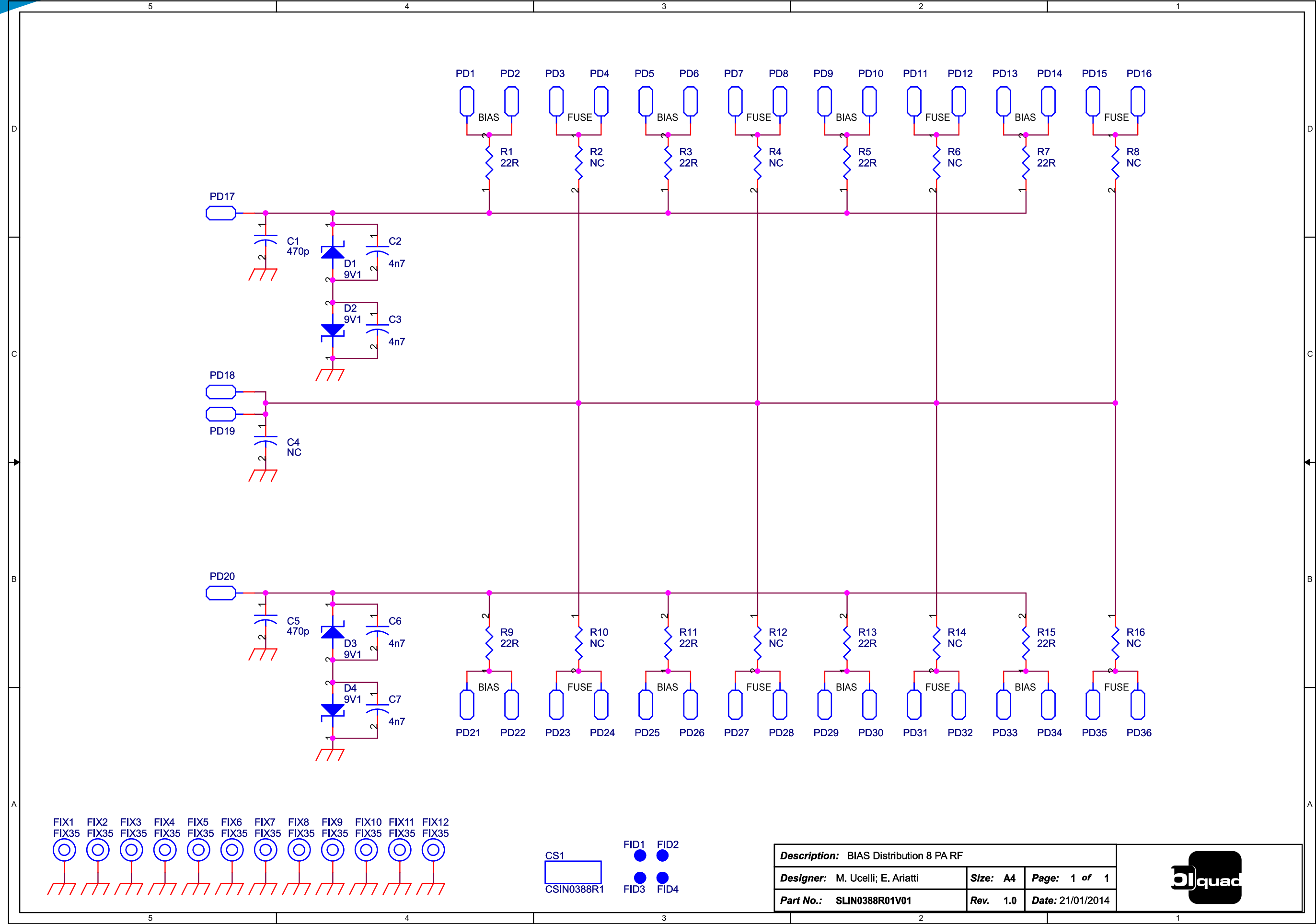
Thermal Probe
Revision: 0.1
Thermal Probe
Mauro Ucelli
08/04/08

tem	Quantity	Reference	Part	Description	Code1
1	4	C1,C2,C4,C5	4n7	Cond. SMD 0805	CCC085472KXC
2	2	C3,C6	470n	Cond. SMD 0805	CCC085474KXB
3	1	D1	9V1	MINIMELF SMD Zener Diode	DIZ9V1MINI
4	1	D2	HSMS2800	Schottky diode SOT23	DISHSMS2800
5	3	FIX1,FIX2,FIX3	FIX35	Fixing hole 3.5mm	
6	1	J1	JSMDC	Closed SMD pad	
7	1	PAD1	V-SUPPLY		
8	1	PAD2	GND		
9	1	PAD3	V-SIGNAL		
10	3	R1,R3,R4	680R	Res. SMD 0805	RCH085F0680H
11	1	R2	51R	Res. SMD 0805	RCH085F0051H
12	1	U1	LM50C_SMD	Temperature sensor	CILLM50C
13	1	CS1	CSMT0208R1	Printed circuit	CSMT0208R1

SLIN0388R01V01



SLIN0388R01V01



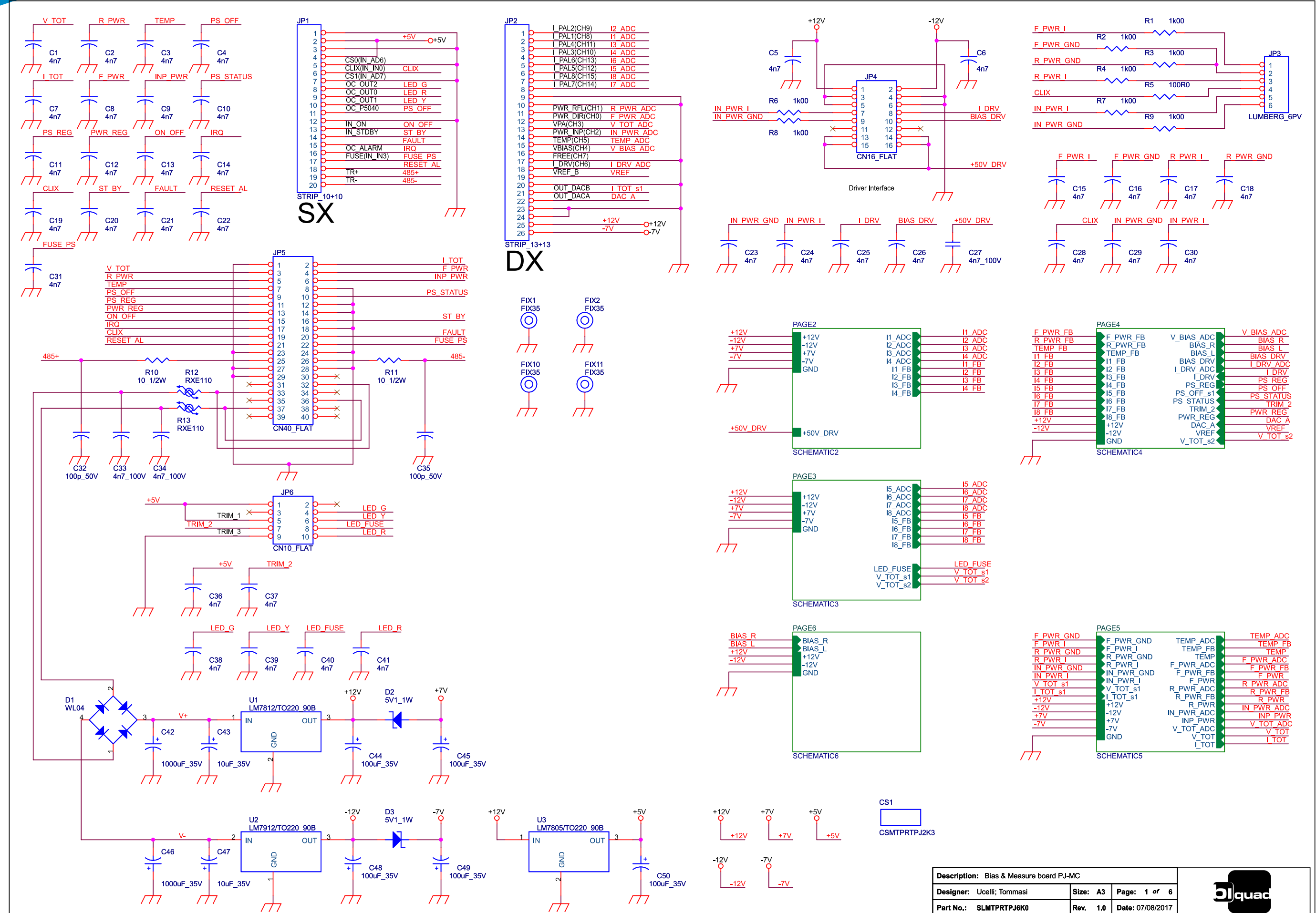


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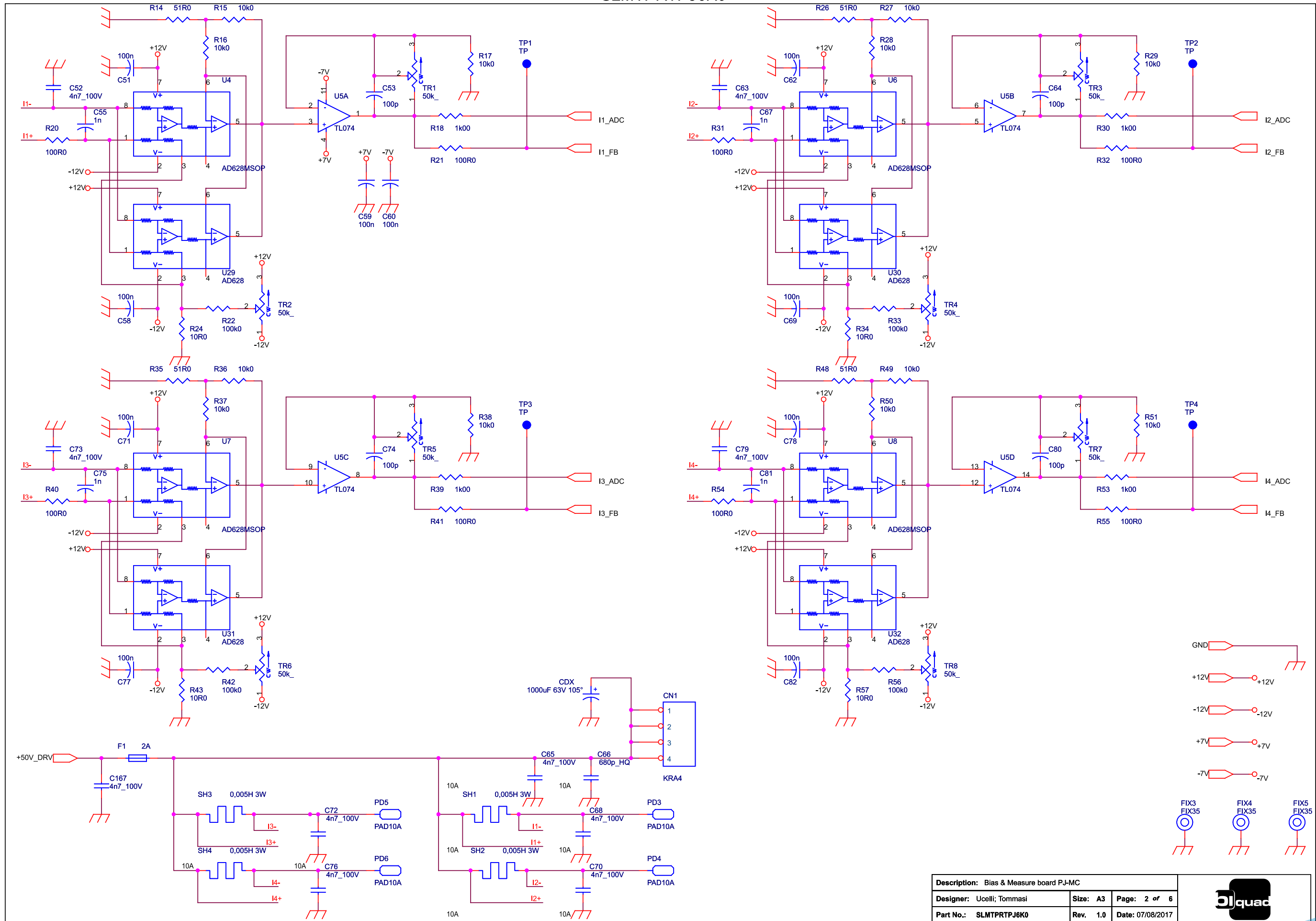
BIAS Distribution 8 PA RF
SLIN0388R01V01
21/01/2014
Rev. 1.0
46
M. Ucelli / E. Ariatti

Item	Quantity	Reference	Part	Description	Code1
1	1	CS1	CSIN0388R1	Printe circuit	CSIN0388R1
2	2	C1,C5	470p	Cond. SMD 1212 HQ	CHQ471JA201
3	4	C2,C3,C6,C7	4n7	Cond. ceramic p 5mm	CMS472MC101
4	1	C4	NC	Cond. SMD 1212 HQ	
5	4	D1,D2,D3,D4	9V1	1W Zener Diode	DIZ9V11W
6	4	FID1,FID2,FID3,FID4	FID	Fiducial CS	
7	12	FIX1,FIX2,FIX3,FIX4,FIX5,FIX6, FIX7,FIX8,FIX9,FIX10,FIX11, FIX12	FIX35	Fixing hole 3.5mm	
8	36	PD1,PD2,PD3,PD4,PD5,PD6, PD7,PD8,PD9,PD10,PD11, PD12,PD13,PD14,PD15,PD16, PD17,PD18,PD19,PD20,PD21, PD22,PD23,PD24,PD25,PD26, PD27,PD28,PD29,PD30,PD31, PD32,PD33,PD34,PD35,PD36	PAD	Welding pad	
9	8	R1,R3,R5,R7,R9,R11,R13, R15	22R	Res. Metal Layer 2W	RSM002J0022H
10	8	R2,R4,R6,R8,R10,R12,R14,R16	NC	Res. 1/2W 10k	

SLMTPRTPJ6K0



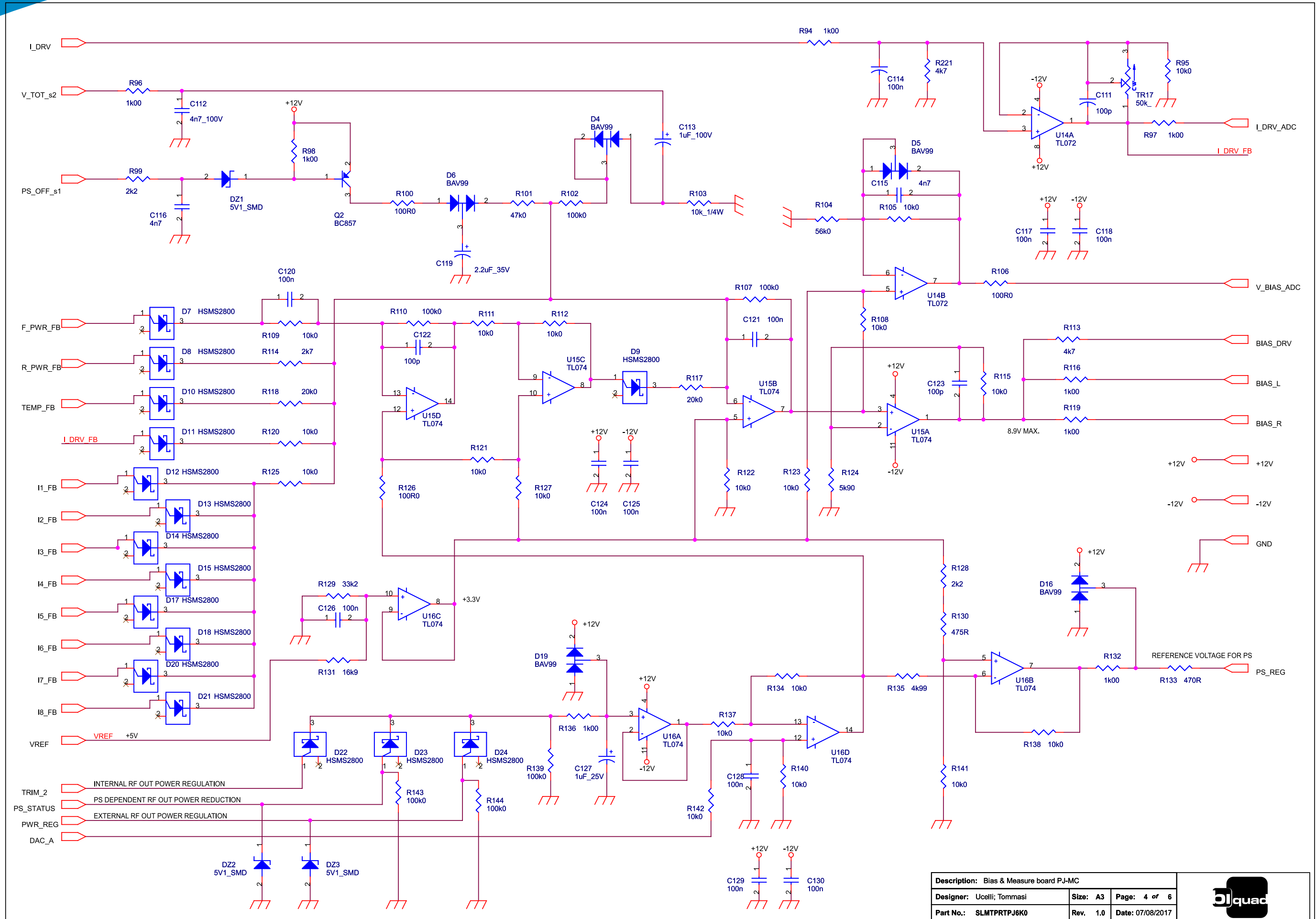
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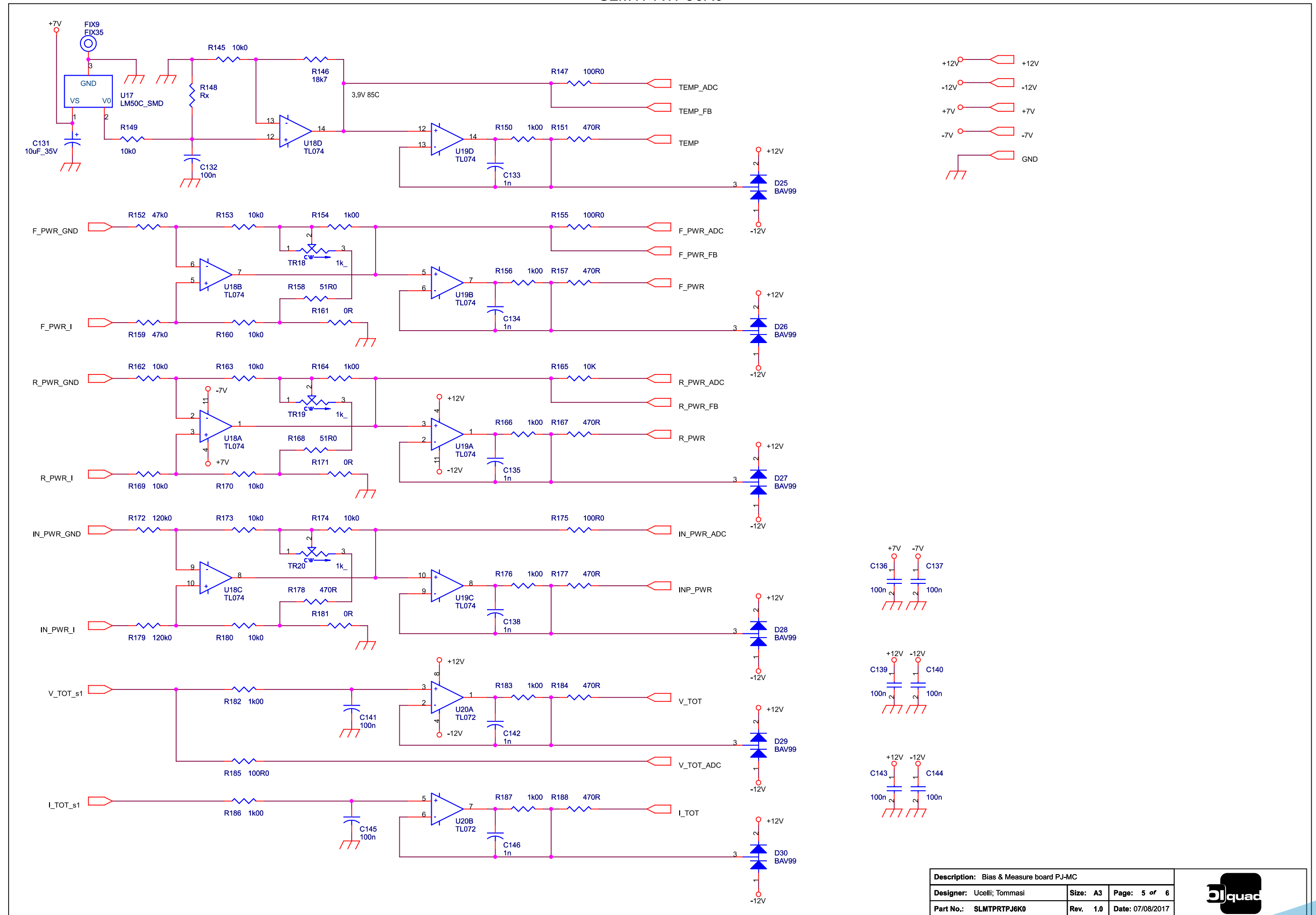
Description: Bias & Measure board PJ-MC		
Designer: Ucelli; Tommasi	Size: A3	Page: 2 of 6
Part No.: SLMTPRTPJ6K0	Rev. 1.0	Date: 07/08/2017



SLMTPRTPJ6K0



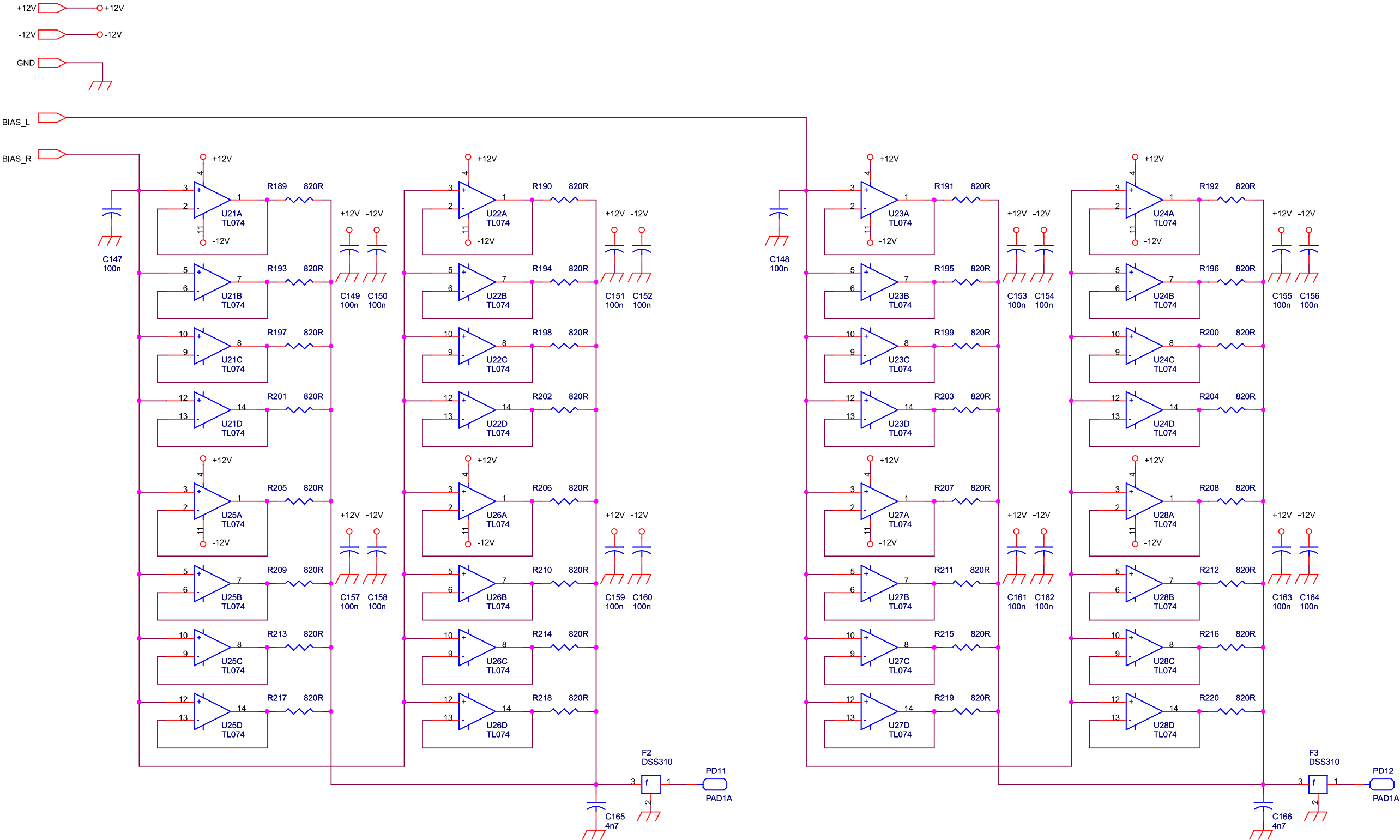
SLMTPRTPJ6K0



Description: Bias & Measure board PJ-MC		
Designer: Ucelli; Tommasi	Size: A3	Page: 5 of 6
Part No.: SLMTPRTPJ6K0	Rev. 1.0	Date: 07/08/2017



SLMTPRTPJ6K0



Description: Bias & Measure board PJ-MC		
Designer: Ucelli; Tommasi	Size: A3	Page: 6 of 6
Part No.: SLMTPRTPJ6K0	Rev. 1.0	Date: 07/08/2017



SLMTPRTPJ6K0





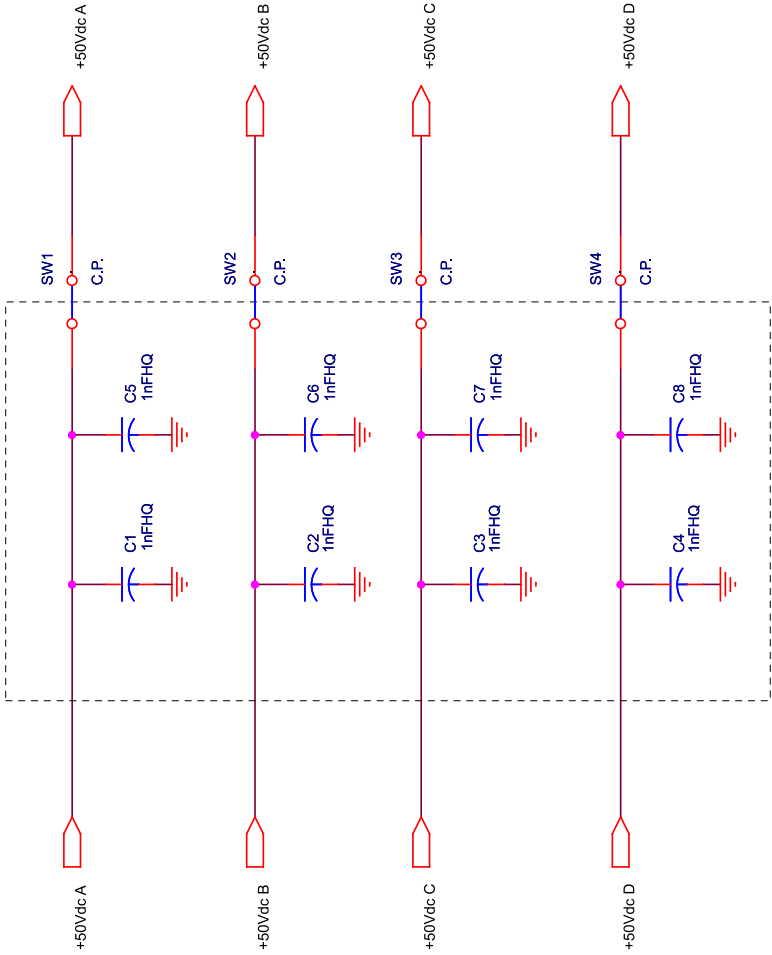
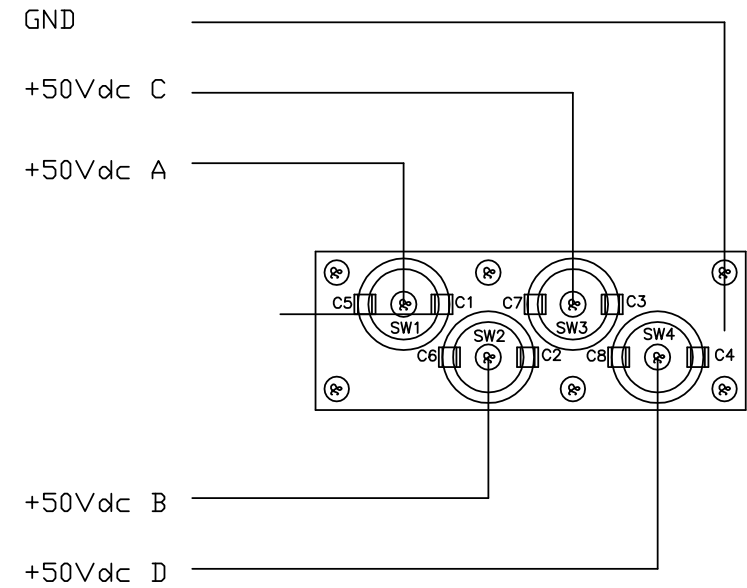
SLMTPRTPJ6K0

Bias & Measure board PJU-K Revised: 07/08/2017
SLMTPRTPJ6K0 Revision: 1.0
Ucelli ; Tommasi

Item	Quantity	Reference	Part
1	2	CN1, CN2	KRA4
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
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
4	2	C32, C35	100p_50V
5	2	C42, C46	1000uF_35V
6	3	C43, C47, C131	10uF_35V
7	5	C44, C45, C48, C49, C50	100uF_35V
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
9	11	C53, C64, C74, C80, C85, C92, C102, C108, C111, C122, C123	100p
10	16	C54, C55, C56, C67, C75, C81, C86, C95, C103, C109, C133, C134, C135, C138, C142, C146	1n
11	2	C66, C94	680p_HQ
12	1	C113	1uF_100V
13	1	C119	2.2uF_35V
14	1	C127	1uF_25V
15	3	DZ1, DZ2, DZ3	5V1_SMD
16	1	D1	WL04
17	2	D2, D3	5V1_1W
18	11	D4, D5, D6, D16, D19, D25, D26, D27, D28, D29, D30	BAV99
19	16	D7, D8, D9, D10, D11, D12, D13, D14, D15, D17, D18, D20, D21, D22, D23, D24	HSMS2800
20	11	FIX1, FIX2, FIX3, FIX4, FIX5, FIX6, FIX7, FIX8, FIX9, FIX10, FIX11	FIX35
21	1	F1	2A
22	2	F2, F3	DSS310
23	1	IS1	4N25
24	1	JP1	STRIP_10+10
25	1	JP2	STRIP_13+13
26	1	JP3	LUMBERG_6PV
27	1	JP4	CN16_FLAT
28	1	JP5	CN40_FLAT
29	1	JP6	CN10_FLAT
30	4	PD1, PD2, PD11, PD12	PAD1A
31	8	PD3, PD4, PD5, PD6, PD7, PD8, PD9, PD10	PAD10A
32	1	Q1	BC847
33	1	Q2	BC857
34	34	R1, R2, R3, R4, R6, R7, R8, R9, R18, R30, R39, R53, R62, R71, R80, R89, R94, R97, R132, R150, R154, R156, R164, R166, R176, R182, R183, R186, R187,R96, R98, R116, R119, R136	1k00
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
36	2	R10, R11	10_1/2W
37	2	R12, R13	RXE110
38	10	R14, R26, R35, R48, R58, R67, R76, R85, R158, R168	51R0
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, R137, R138, R140, R141, R142, R165, R174	10k0
40	15	R19, R22, R33, R42, R56, R65, R74, R83, R92,R102, R107, R110, R139, R143, R144	100k0

Item	Quantity	Reference	Part
41	8	R24, R34, R43, R57, R66, R75, R84, R93	10R0
42	4	R44, R45, R46, R47	20k0_1/4W
43	1	R52	422R
45	2	R99, R128	2k2
49	1	R103	10k_1/4W
50	1	R104	56k0
52	2	R113, R221	4k7
53	1	R114	2k7
54	2	R117, R118	20k0
55	1	R124	5k90
56	1	R129	33k2
57	1	R130	475R
58	1	R131	16k9
59	8	R133, R151, R157, R167, R177, R184, R188, R178	470R
60	1	R135	4k99
61	1	R146	18k7
62	1	R148	Rx
64	3	R152, R159, R101	47k0
65	3	R161, R171, R181	0R
66	2	R172, R179	120k0
67	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
68	8	SH1, SH2, SH3, SH4, SH5, SH6, SH7, SH8	0,005H 3W
69	8	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8	TP
70	17	TR1, TR2, TR3, TR4, TR5, TR6, TR7, TR8, TR9, TR10, TR11, TR12, TR13, TR14, TR15, TR16, TR17	50k_
71	3	TR18, TR19, TR20	1k_
72	1	U1	LM7812/TO220_90B
73	1	U2	LM7912/TO220_90B
74	1	U3	LM7805/TO220_90B
76	8	U4, U6, U7, U8, U9, U11, U12, U13	AD628MSOP
77	14	U5, U10, U15, U16, U18, U19, U21, U22, U23, U24, U25, U26, U27, U28	TL074
78	2	U14, U20	TL072
79	1	U17	LM50C_SMD
80	8	U29, U30, U31, U32, U33, U34, U35, U36	AD628SO8
81	1	CS1	CSMTPRTPJ2K3
82	2	CDX, CSX	1000uF 63V 105°

SLFILPJ1KM



	PROJECT NAME: TEX PJC HC		PART NAME: WLAK-THROUGH BOARD	
	AUTHOR: UFFICIO TECNICO	DATE: 27/03/2014	REVISION: 1.0	SCALE: 2:1
ELETRONIC STORAGE: "CARTELLA RILASCIATI" SU "UT_SRV"		PROJECT CODE: 014	DESIGN CODE: SLFILPJ1KM	SIZE: A4
MATERIAL: FRA-74 1.6mm Cu 35um		TREATMENT: MANUFACTURER STANDARD	PROFILE: POSITIVE	PAGE: 1 DI 1
		STATE: EXECUTIVE		

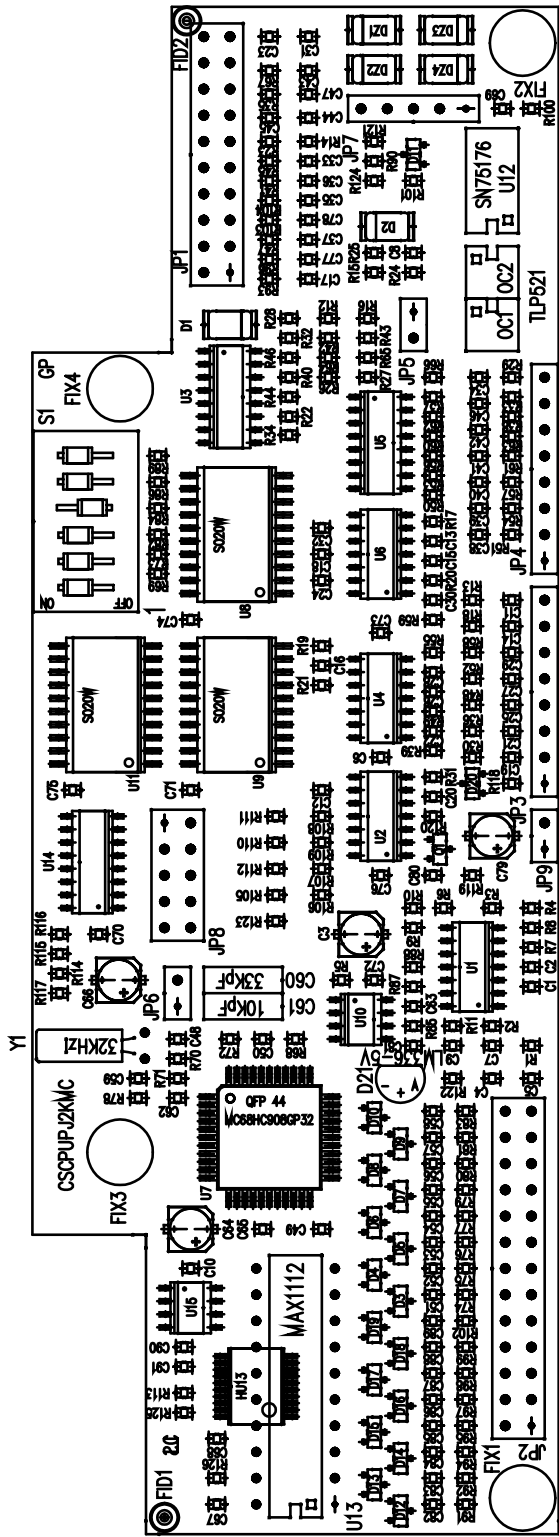
PROJECT NAME: TEX PJC HC		PAGE: 1	di 1	Size: A4
AUTHOR: Ufficio Tecnico		DATE: 17/06/2013		PROJECT CODE: 014
PC name on the network: \\Rvrtut\Rilasciati		REVISION: 2.1		PART NAME: SCHEDA PASSA PARETE
File / Folder:				CODE: SLFILPJ1KM

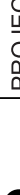


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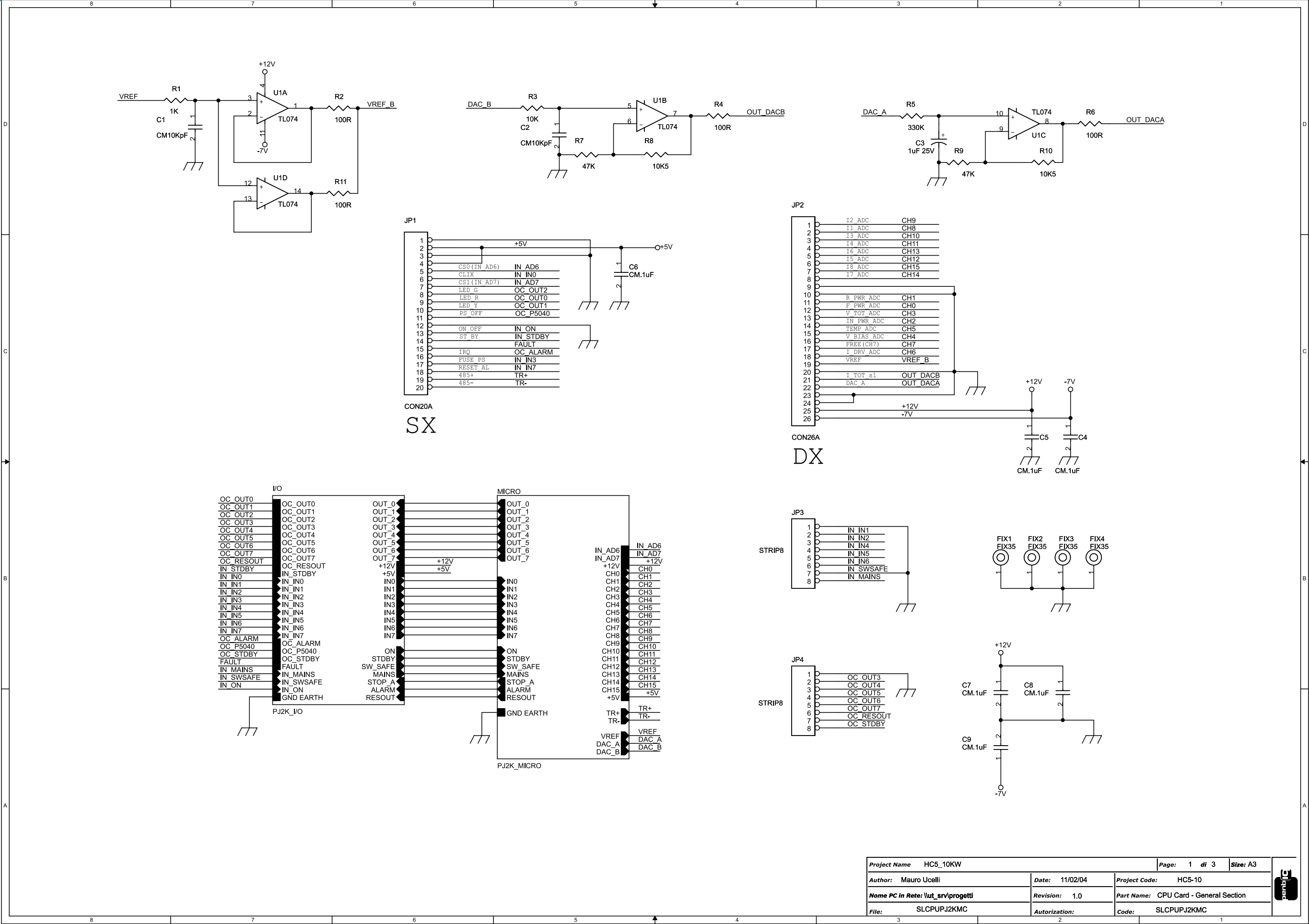
PASSAPARETE CARD Revised: 17/06/2013
SLFILPJ1KM Revision: 2.1
TEX PJC HC

Item	Quantity	Reference	Part
1	8	C1, C2, C3, C4, C5, C6, C7, C8	1nFHQ
2	4	SW1, SW2, SW3, SW4	C.P.

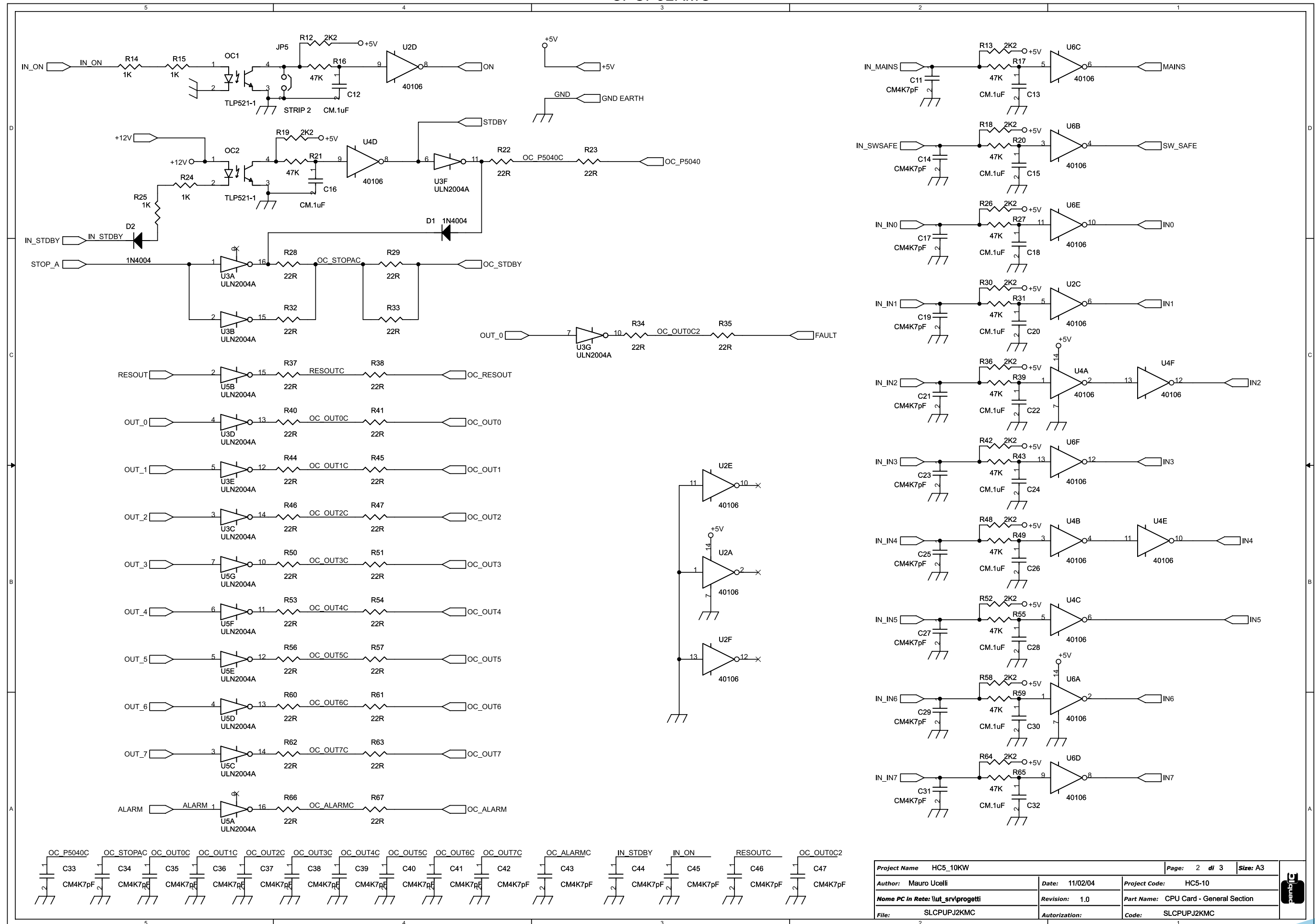


	<u>PROJECT NAME:</u> HC5/10		<u>PART NAME:</u> Scheda CPU						
	<u>AUTHOR:</u> U.T. - Rev.: BERTI J.		<u>DATE:</u> 11/02/2004		<u>REVISION:</u> 1.0	<u>ACALE:</u> 1:1	<u>SIZE:</u> A4	<u>PAGE:</u> 1	<u>DI</u> 1
	<u>ELECTRONIC STORAGE:</u>		<u>PROJECT CODE:</u> 014		<u>DESIGN CODE:</u> SLCPUPJ2KMC				
	<u>MATERIAL:</u> <>		<u>TREATMENT:</u> <>		<u>PROFILE:</u> <>		<u>STATE:</u> EXECUTIVE		

CPUPJ2KMC

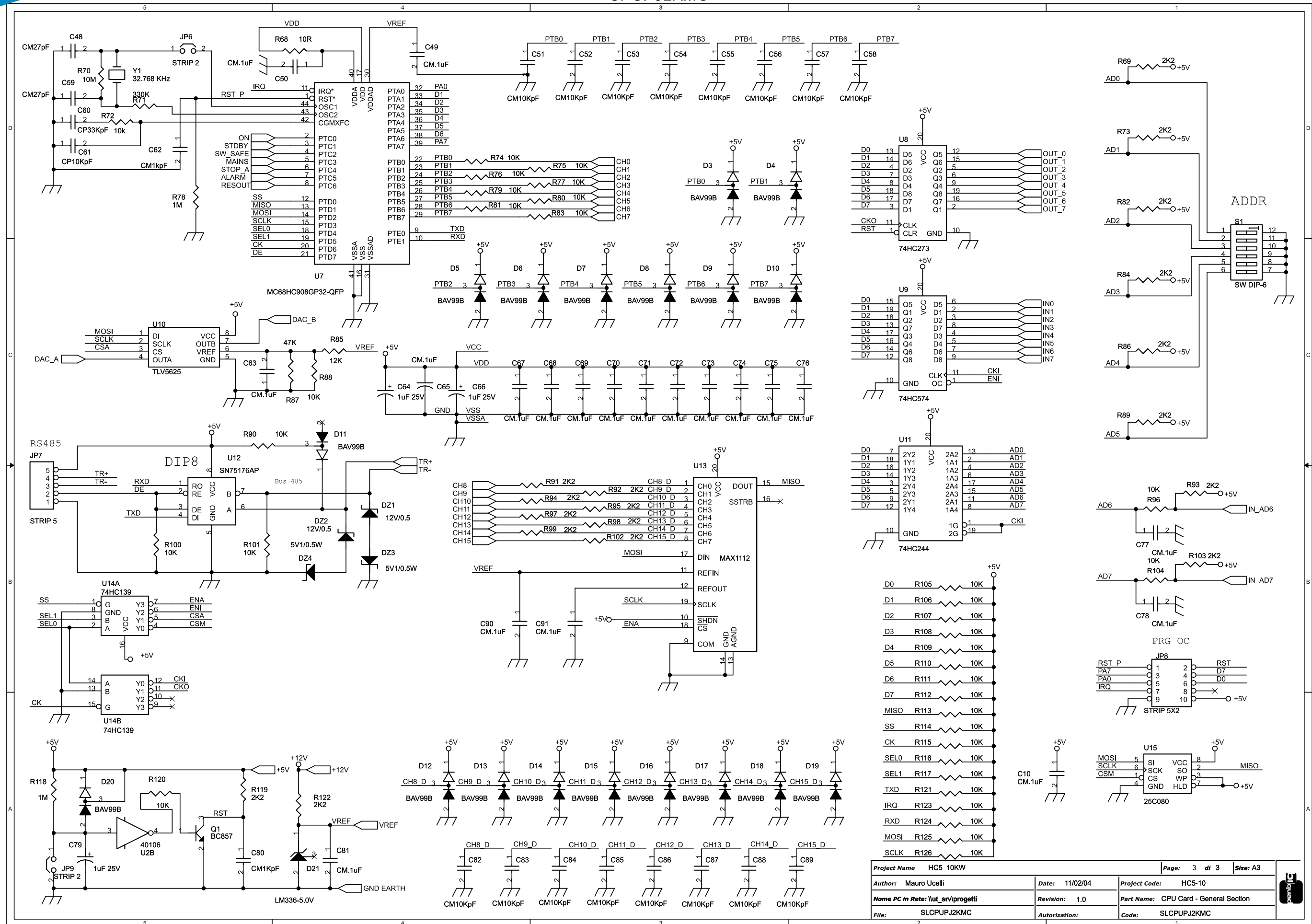


CPUPJ2KMC



Project Name	HC5_10KW	Page:	2 di 3	Size:	A3
Author:	Mauro Ucelli	Date:	11/02/04	Project Code:	HC5-10
Nome PC in Rete:	\\ut_srv\progetti	Revision:	1.0	Part Name:	CPU Card - General Section
File:	SLCPUPJ2KMC	Autorization:		Code:	SLCPUPJ2KMC

CPUPJ2KMC





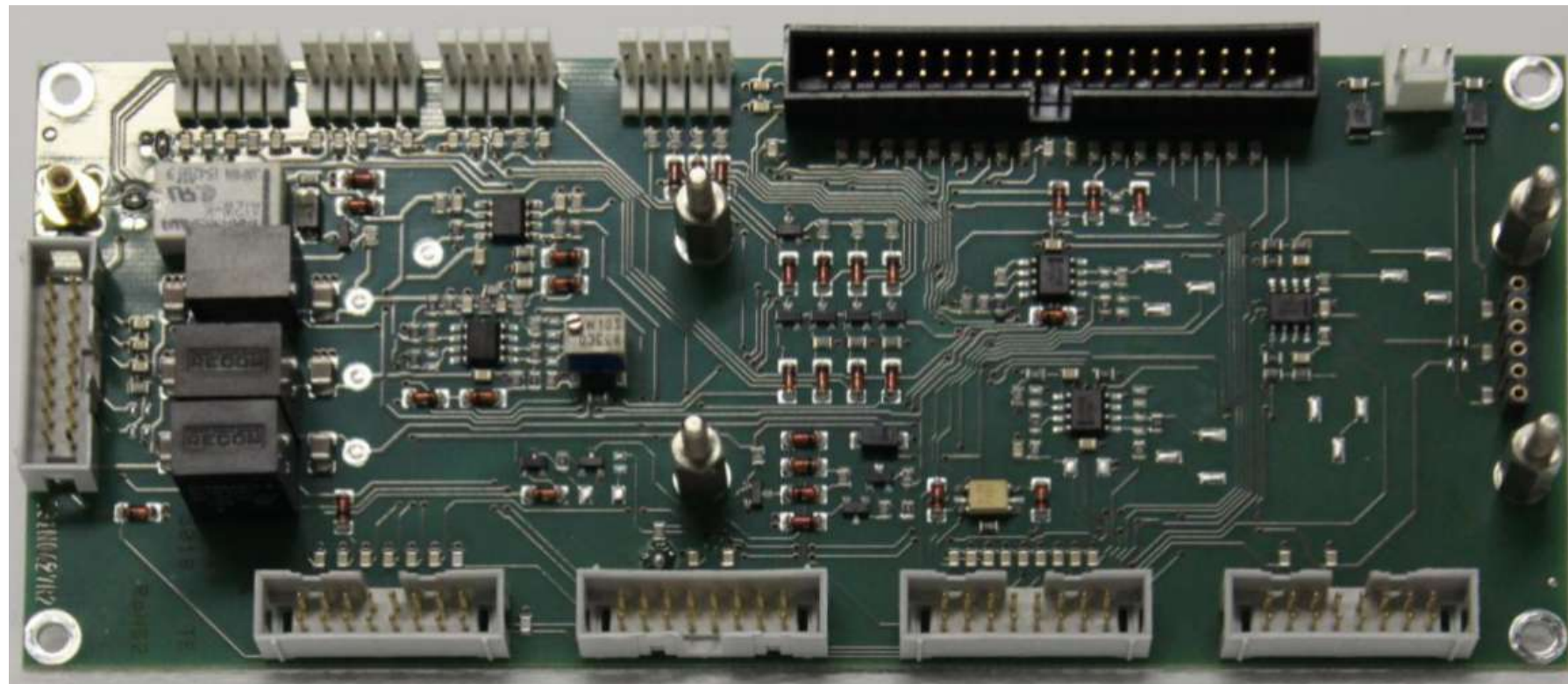
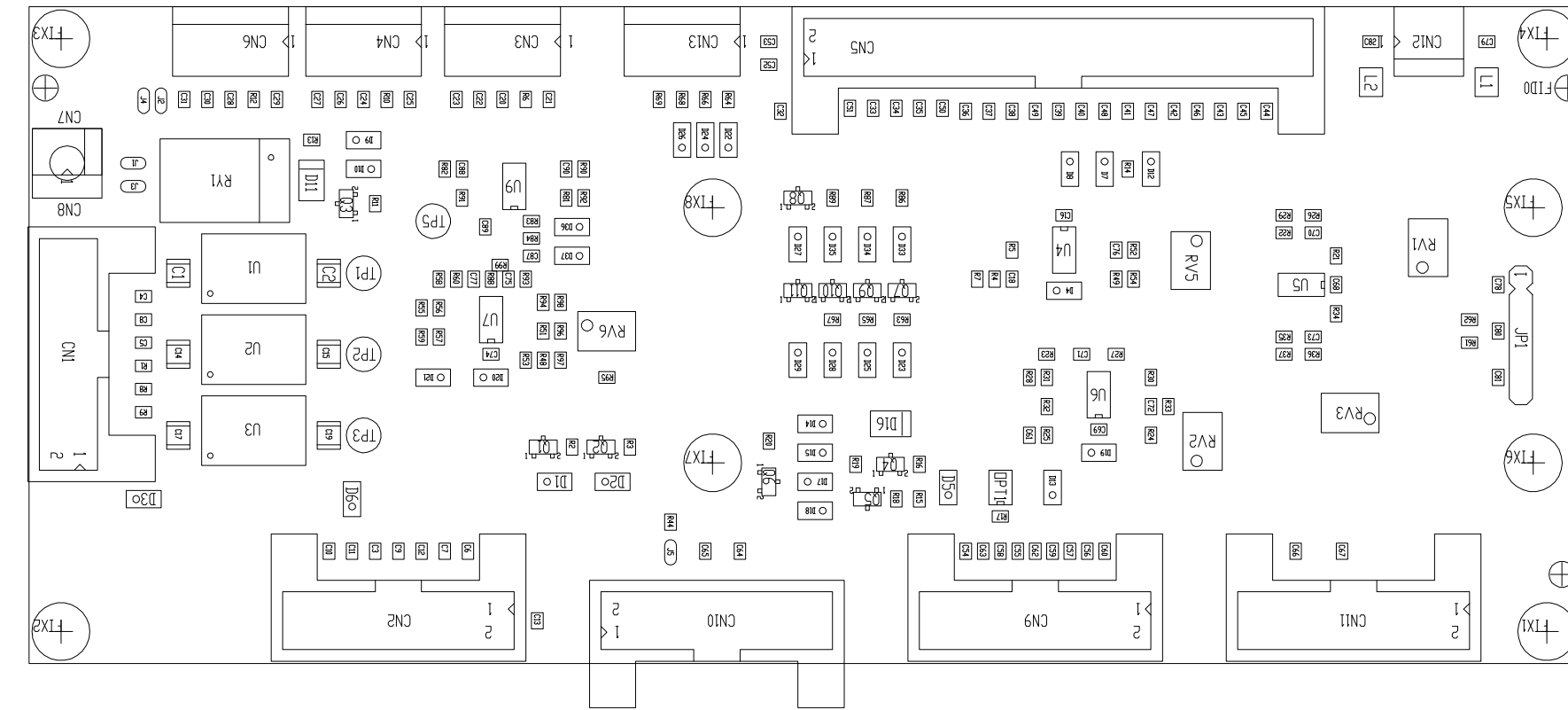
CPUPJ2KMC


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

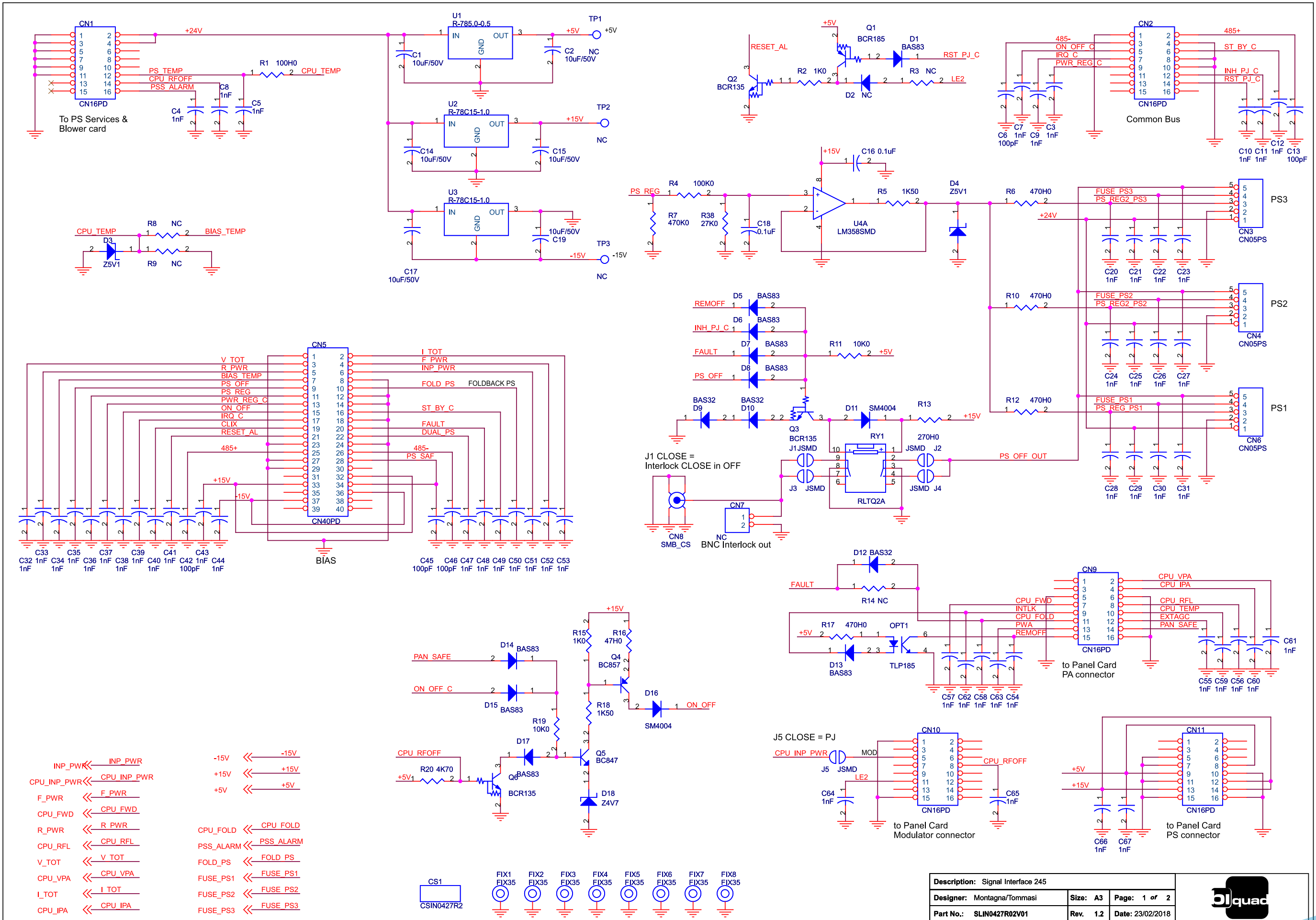
Item	Quantity	Reference	Part
37	3	U2, U4, U6	40106
38	2	U5, U3	ULN2004A
39	1	U7	MC68HC908GP32-QFP
40	1	U8	74HC273
41	1	U9	74HC574
42	1	U10	TLV5625
43	1	U11	74HC244
44	1	U12	SN75176AP
45	1	U13	MAX1112
46	1	U14	74HC139
47	1	U15	25C080
48	1	Y1	32.768 KHz

SLIN0427R02V01

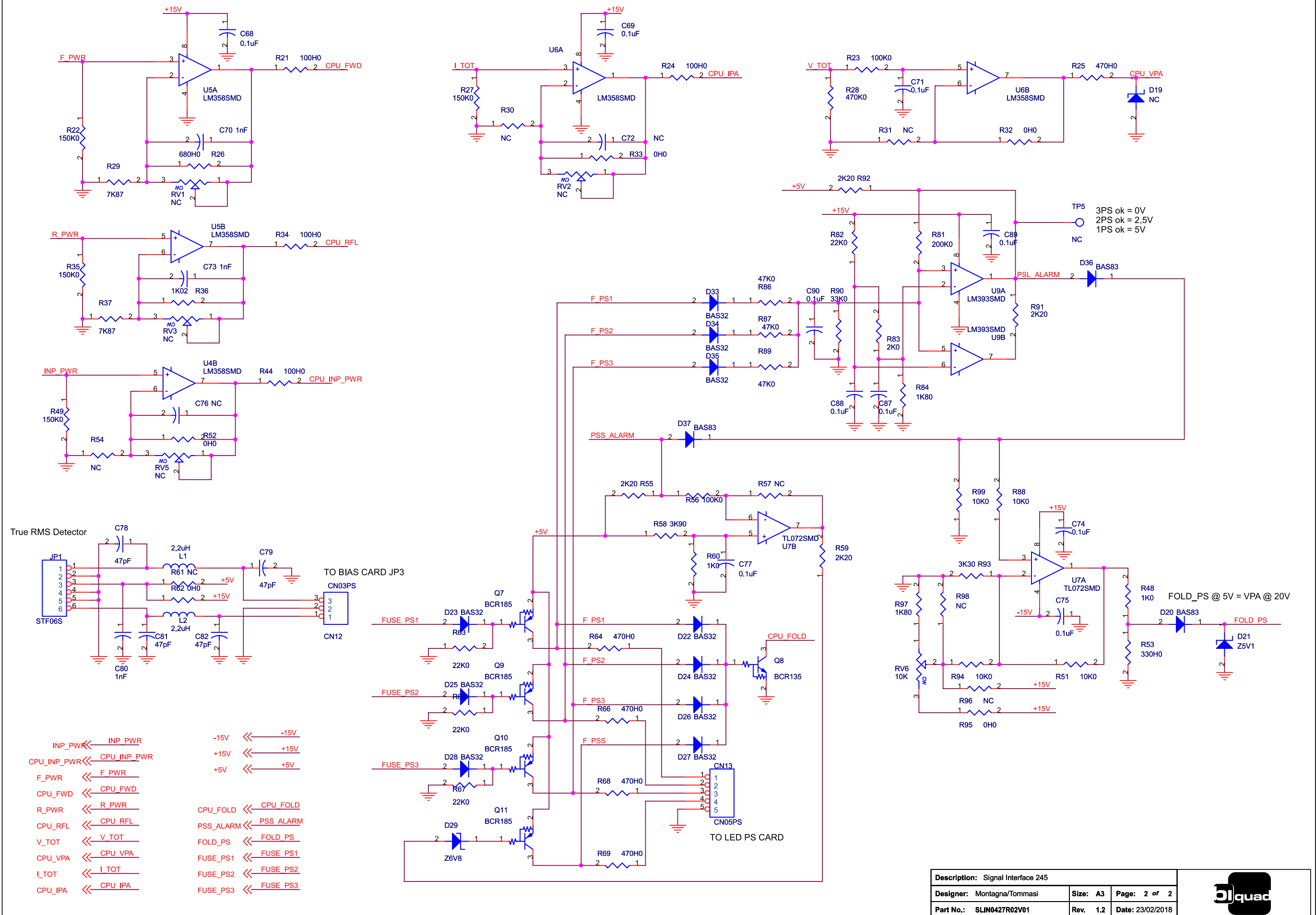


	PRODUCT NAME : PJ5000U-K		PART NAME :		SIGNAL INTERFACE CARD	
	DESIGNER :	MONTAGNA / TOMMASI	DATE :	23/02/18	REVISION :	1.2
			SCALE :	1:1	SIZE :	A4
ARCHIVING : "RVRUT" SERVER, "RILASCIATI" FOLDER			PROJECT CODE : 245		DOCUMENT CODE : SLIN0427R02V01	

SLIN0427R02V01



SLIN0427R02V01





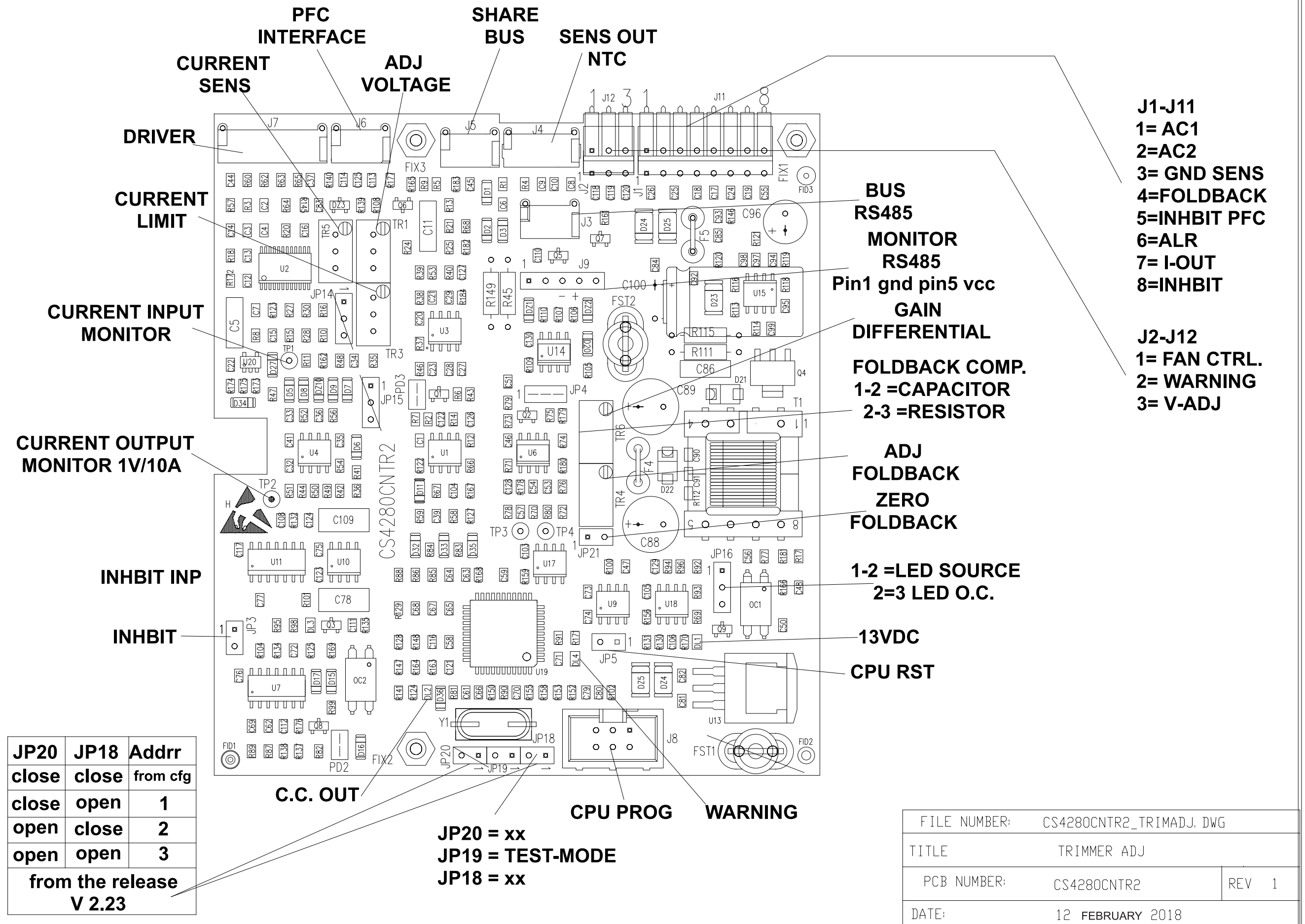
SLIN0427R02V01

Signal Interface 245 Revised: 23/02/2018
SLIN0427R02V01 Revision: 1.2
Montagna/Tommasi

Item	Quantity	Reference	Part	Description
1	5	CN1, CN2, CN9, CN10, CN11	CN16PD	Conn.M.C.S.Dritto 16P alette.
2	4	CN3, CN4, CN6, CN13	CN05PS	Conn. 5 poli Mascon
3	1	CN5	CN40PD	Conn.M.C.S.Dritto 40P
4	1	CN7	NC	Conn. 2 poli Mascon
5	1	CN8	SMB_CS	Conn. SMB cs
6	1	CN12	CN03PS	Conn. 3 poli Mascon
7	1	CS1	CSIN0427R2	Printed circuit
8	6	C1, C2, C14, C15, C17, C19	10uF/50V	Cond. SMD 1210
9	57	C3, C4, C5, C7, C8, C9, C10, C11, C12, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C43, C44, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C70, C73, C80	1nF	Cond. SMD 0805
10	5	C6, C13, C42, C45, C46	100pF	Cond. SMD 0805
11	12	C16, C18, C68, C69, C71, C74, C75, C77, C87, C88, C89, C90	0.1uF	Cond. SMD 0805
12	2	C72, C76	NC	Cond. SMD 0805
13	4	C78, C79, C81, C82	47pF	Cond. SMD 0805
14	12	D1, D5, D6, D7, D8, D13, D14, D15, D17, D20, D36, D37	BAS83	MINIMELF SMD Diode
15	1	D2	NC	MINIMELF SMD Diode
16	3	D3, D4, D21	Z5V1	MINIMELF SMD Zener Diode
17	13	D9, D10, D12, D22, D23, D24, D25, D26, D27, D28, D33, D34, D35	BAS32	MINIMELF SMD Diode
18	2	D11, D16	SM4004	Diode SMD cont. SMA
19	1	D18	Z4V7	MINIMELF SMD Zener Diode
20	1	D19	NC	MINIMELF SMD Zener Diode
21	1	D29	Z6V8	MINIMELF SMD Zener Diode
22	8	FIX1, FIX2, FIX3, FIX4, FIX5, FIX6, FIX7, FIX8	FIX35	Fixing hole 3.5mm
23	1	JP1	STF06S	Male strip 6 pin
24	5	J1, J2, J3, J4, J5	JSMD	SMD solder pad
25	2	L1, L2	2,2uH	Induttance SMD HQ 3225 (1210)
26	1	OPT1	TLP185	Optocoupler SMD SO6
27	5	Q1, Q7, Q9, Q10, Q11	BCR185	Trans./Res. PNP SOT23
28	4	Q2, Q3, Q6, Q8	BCR135	Trans./Res. NPN SOT23
29	1	Q4	BC857	Trans. PNP SOT23
30	1	Q5	BC847	Trans. NPN SOT23
31	4	RV1, RV2, RV3, RV5	NC	Trimmer Rg V 3269W SMD
32	1	RV6	10K	Trimmer Rg V 3269W SMD
33	1	RY1	RLTQ2A	Rele' TQ2
34	5	R1, R21, R24, R34, R44	100H0	Res. SMD 0805 1%
35	4	R2, R15, R48, R60	1K0	Res. SMD 0805 1%
36	11	R3, R8, R9, R14, R30, R31, R54, R57, R61, R96, R98	NC	Res. SMD 0805 1%
37	3	R4, R23, R56	100K0	Res. SMD 0805 1%
38	2	R5, R18	1K50	Res. SMD 0805 1%
39	9	R6, R10, R12, R17, R25, R64, R66, R68, R69	470H0	Res. SMD 0805 1%
40	2	R7, R28	470K0	Res. SMD 0805 1%
41	6	R11, R19, R51, R88, R94, R99	10K0	Res. SMD 0805 1%
42	1	R13	270H0	Res. SMD 0805 1%
43	1	R16	47H0	Res. SMD 0805 1%
44	1	R20	4K70	Res. SMD 0805 1%
45	4	R22, R27, R35, R49	150K0	Res. SMD 0805 1%
46	1	R26	680H0	Res. SMD 0805 1%
47	2	R29, R37	7K87	Res. SMD 0805 1%
48	5	R32, R33, R52, R62, R95	0H0	Res. SMD 0805 1%
49	1	R36	1K02	Res. SMD 0805 1%
50	1	R38	27K0	Res. SMD 0805 1%
51	1	R53	330H0	Res. SMD 0805 1%
52	4	R55, R59, R91, R92	2K20	Res. SMD 0805 1%
53	1	R58	3K90	Res. SMD 0805 1%
54	4	R63, R65, R67, R82	22K0	Res. SMD 0805 1%
55	1	R81	200K0	Res. SMD 0805 1%
56	1	R83	2K0	Res. SMD 0805 1%
57	2	R84, R97	1K80	Res. SMD 0805 1%
58	3	R86, R87, R89	47K0	Res. SMD 0805 1%
59	1	R90	33K0	Res. SMD 0805 1%
60	1	R93	3K30	Res. SMD 0805 1%

Item	Quantity	Reference	Part	Description
61	4	TP1, TP2, TP3, TP5	NC	Test point
62	1	U1	R-785.0-0.5	Switching SIP3 regulator
63	2	U2, U3	R-78C15-1.0	Switching SIP3 regulator
64	3	U4, U5, U6	LM358SMD	Dual Op. SMD SO8
65	1	U7	TL072SMD	Dual Op. SMD SO8
66	1	U9	LM393SMD	Dual Comp. SMD SO8

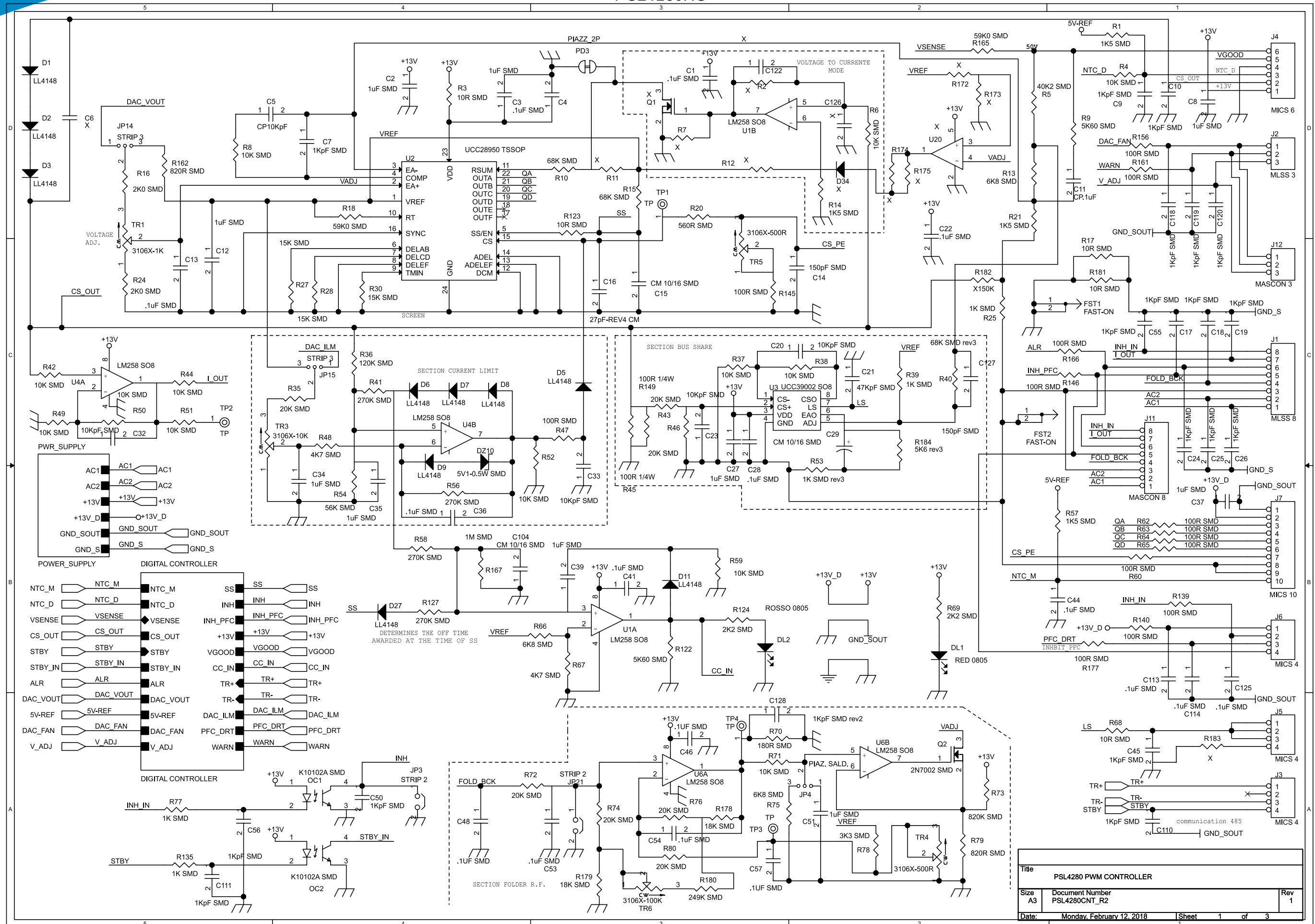
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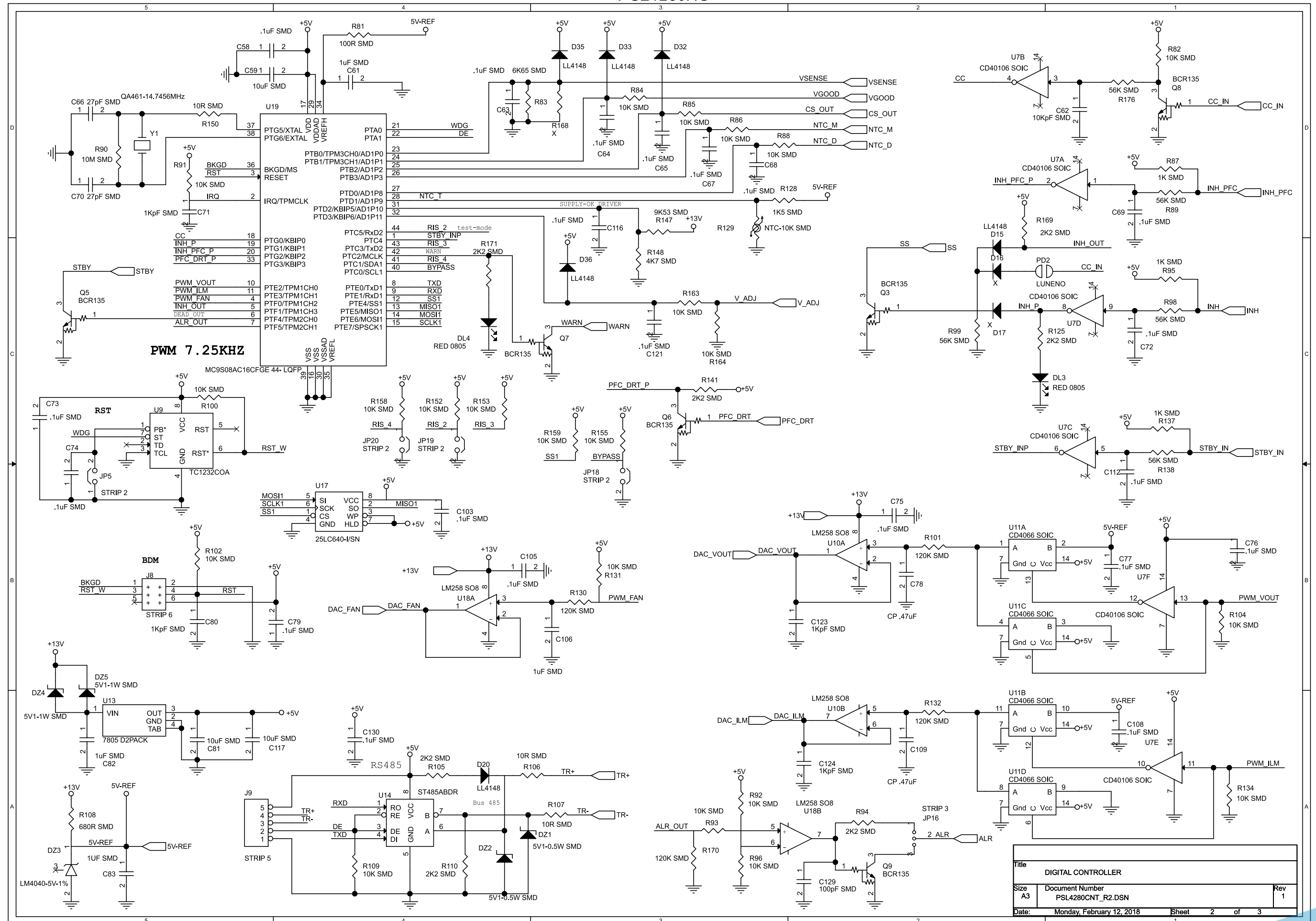
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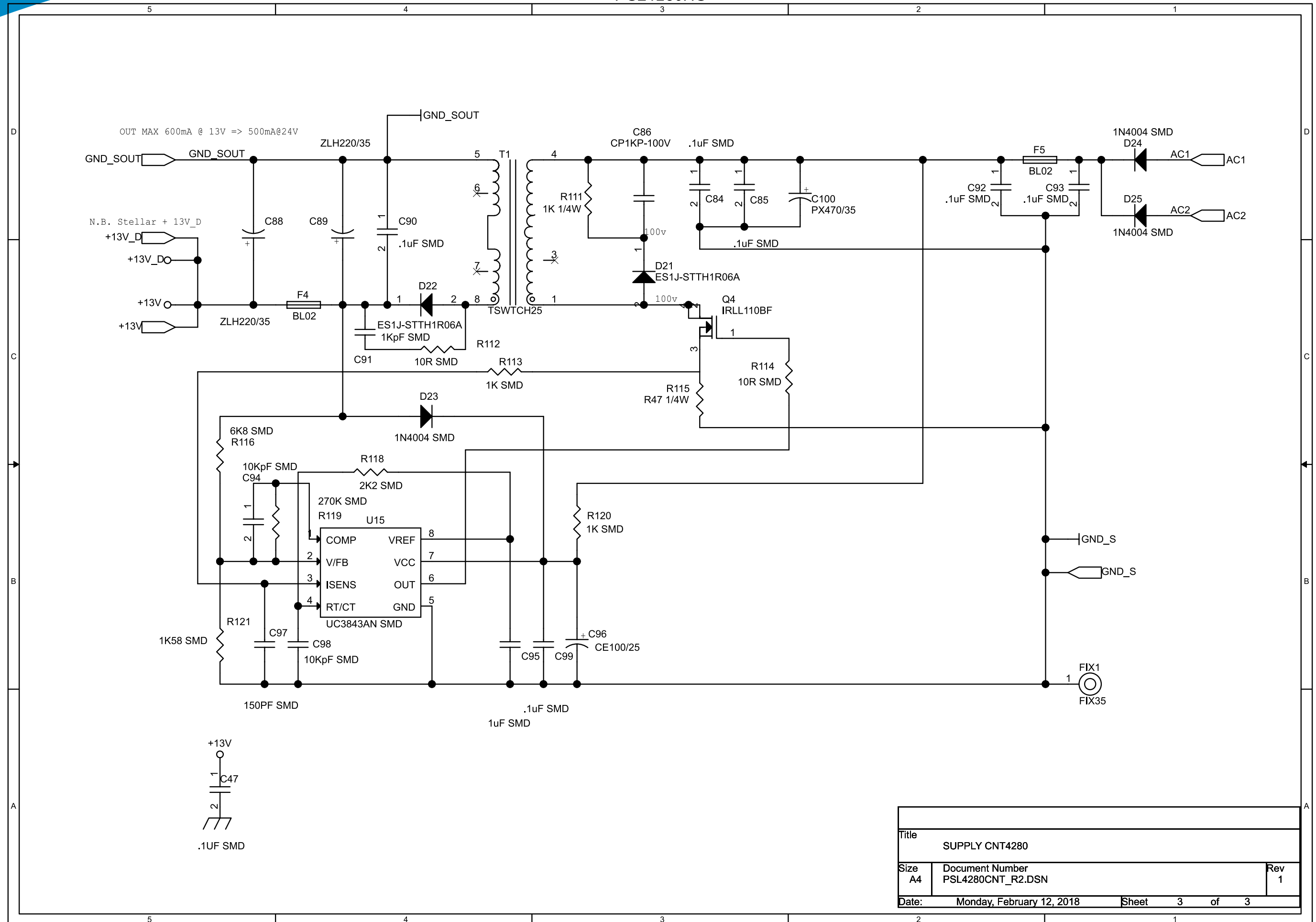
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PSL4280HS



PSL4280HS





PSL4280HS

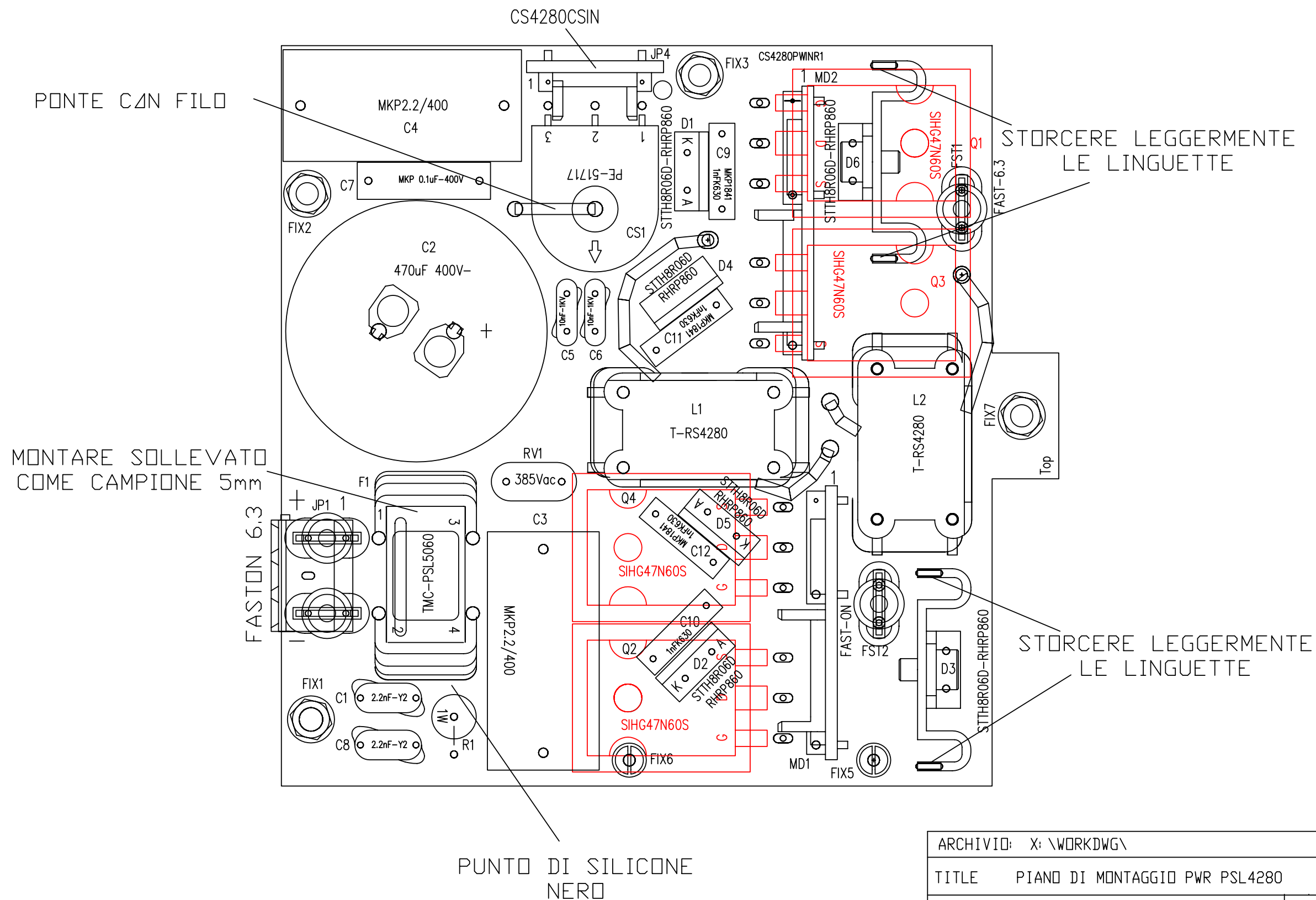
PSL4280 PWM CONTROLLER Revised: Thursday, February 22, 2018
PSL4280CNT_R2 Revision: 1

Item	Quantity	Reference	Part
1	44	C1, C4, C13, C22, C28, C36, C41, C44, C46, C47, C48, C53, C54, C57, C58, C63, C64, C65, C67, C68, C69, C72, C73, C74, C75, C76, C77, C79, C84, C85, C90, C92, C93, C99, C103, C105, C108, C112, C113, C114, C116, C121, C125, C130	.1uF SMD
2	15	C2, C3, C8, C12, C27, C34, C35, C37, C39, C51, C61, C82, C83, C95, C106	1uF SMD
3	1	C5	CP10KpF
4	18	Q1, R2, C6, R7, R11, R12, D16, D17, U20, D34, C122, C126, R168, R172, R173, R174, R175, R183	X
5	23	C7, C9, C10, C17, C18, C19, C24, C25, C26, C45, C50, C55, C56, C71, C80, C91, C110, C111, C118, C119, C120, C123, C124	1KpF SMD
6	1	C11	CP.1uF
7	3	C14, C97, C127	150pF SMD
8	3	C15, C29, C104	CM 10/16 SMD
9	1	C16	27pF-REV4 CM
10	7	C20, C23, C32, C33, C62, C94, C98	10KpF SMD
11	1	C21	47KpF SMD
12	3	C59, C81, C117	10uF SMD
13	2	C66, C70	27pF SMD
14	1	C78	CP .47uF
15	1	C86	CP1KP-100V
16	2	C88, C89	ZLH220/35
17	1	C96	CE100/25
18	1	C100	PX470/35
19	1	C109	CP .47uF
20	1	C128	1KpF SMD rev2
21	1	C129	100pF SMD
22	4	DL1, DL2, DL3, DL4	RED 0805
23	3	DZ1, DZ2, DZ10	5V1-0.5W SMD
24	1	DZ3	LM4040-5V-1%
25	2	DZ4, DZ5	5V1-1W SMD
26	16	D1, D2, D3, D5, D6, D7, D8, D9, D11, D15, D20, D27, D32, D33, D35, D36	LL4148
27	2	D21, D22	ES1J-STTH1R06A
28	3	D23, D24, D25	1N4004 SMD
29	1	FIX1	FIX35
30	2	FST1, FST2	FAST-ON
31	2	F4, F5	BL02
32	6	JP3, JP5, JP18, JP19, JP20, JP21	STRIP 2
33	1	JP4	PIAZ. SALD.
34	3	JP14, JP15, JP16	STRIP 3
35	1	J1	MLSS 8
36	1	J2	MLSS 3
37	3	J3, J5, J6	MICS 4
38	1	J4	MICS 6
39	1	J7	MICS 10
40	1	J8	STRIP 6
41	1	J9	STRIP 5
42	1	J11	MASCON 8
43	1	J12	MASCON 3
44	2	OC1, OC2	K10102A SMD
45	1	PD2	LUNENO
46	1	PD3	PIAZZ_2P
47	1	Q2	2N7002 SMD
48	6	Q3, Q5, Q6, Q7, Q8, Q9	BCR135
49	1	Q4	IRLL110BF
50	5	R1, R14, R21, R57, R128	1K5 SMD
51	10	R3, R17, R68, R106, R107, R112, R114, R123, R150, R181	10R SMD
52	35	R4, R6, R8, R37, R38, R42, R44, R49, R50, R51, R52, R59, R71, R82, R84, R85, R86, R88, R91, R92, R93, R96, R100, R102, R104, R109, R131, R134, R152, R153, R155, R158, R159, R163, R164	10K SMD
53	1	R5	40K2 SMD
54	2	R9, R122	5K60 SMD

Item	Quantity	Reference	Part
55	2	R10, R15	68K SMD
56	4	R13, R66, R75, R116	6K8 SMD
57	2	R16, R24	2K0 SMD
58	2	R18, R165	59K0 SMD
59	1	R20	560R SMD
60	9	R25, R39, R77, R87, R95, R113, R120, R135, R137	1K SMD
61	3	R27, R28, R30	15K SMD
62	7	R35, R43, R46, R72, R74, R76, R80	20K SMD
63	5	R36, R101, R130, R132, R170	120K SMD
64	1	R40	68K SMD rev3
65	5	R41, R56, R58, R119, R127	270K SMD
66	2	R45, R149	100R 1/4W
67	15	R47, R60, R62, R63, R64, R65, R81, R139, R140, R145, R146, R156, R161, R166, R177	100R SMD
68	3	R48, R67, R148	4K7 SMD
69	1	R53	1K SMD rev3
70	6	R54, R89, R98, R99, R138, R176	56K SMD
71	10	R69, R94, R105, R110, R118, R124, R125, R141, R169, R171	2K2 SMD
72	1	R70	180R SMD
73	1	R73	820K SMD
74	1	R78	3K3 SMD
75	2	R79, R162	820R SMD
76	1	R83	6K65 SMD
77	1	R90	10M SMD
78	1	R108	680R SMD
79	1	R111	1K 1/4W
80	1	R115	R47 1/4W
81	1	R121	1K58 SMD
82	1	R129	NTC-10K SMD
83	1	R147	9K53 SMD
84	1	R167	1M SMD
85	2	R178, R179	18K SMD
86	1	R180	249K SMD
87	1	R182	X150K
88	1	R184	5K6 rev3
89	4	TP1, TP2, TP3, TP4	TP
90	1	TR1	3106X-1K
91	1	TR3	3106X-10K
92	2	TR4, TR5	3106X-500R
93	1	TR6	3106X-100K
94	1	T1	TSWTCH25
95	5	U1, U4, U6, U10, U18	LM258 SO8
96	1	U2	UCC28950 TSSOP
97	1	U3	UCC39002 SO8
98	1	U7	CD40106 SOIC
99	1	U9	TC1232COA
100	1	U11	CD4066 SOIC
101	1	U13	7805 D2PACK
102	1	U14	ST485ABDR
103	1	U15	UC3843AN SMD
104	1	U17	25LC640-I/SN
105	1	U19	MC9S08AC16CFGE 44- LQFP
106	1	Y1	QA461-14.7456MHz

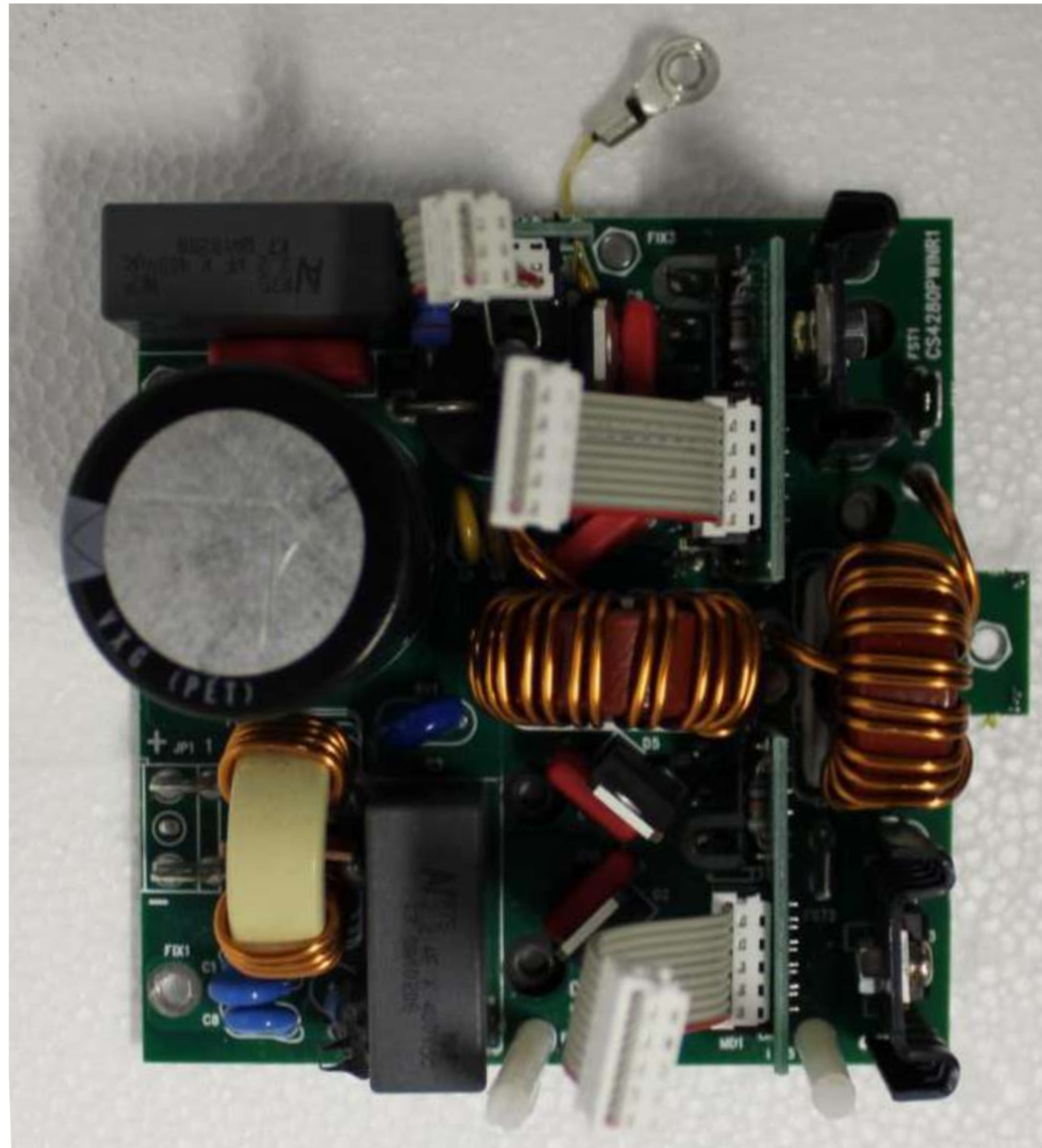
PSL4280HS

POWER INPUT ASSEMBLY PLAN PSL 4280 R1

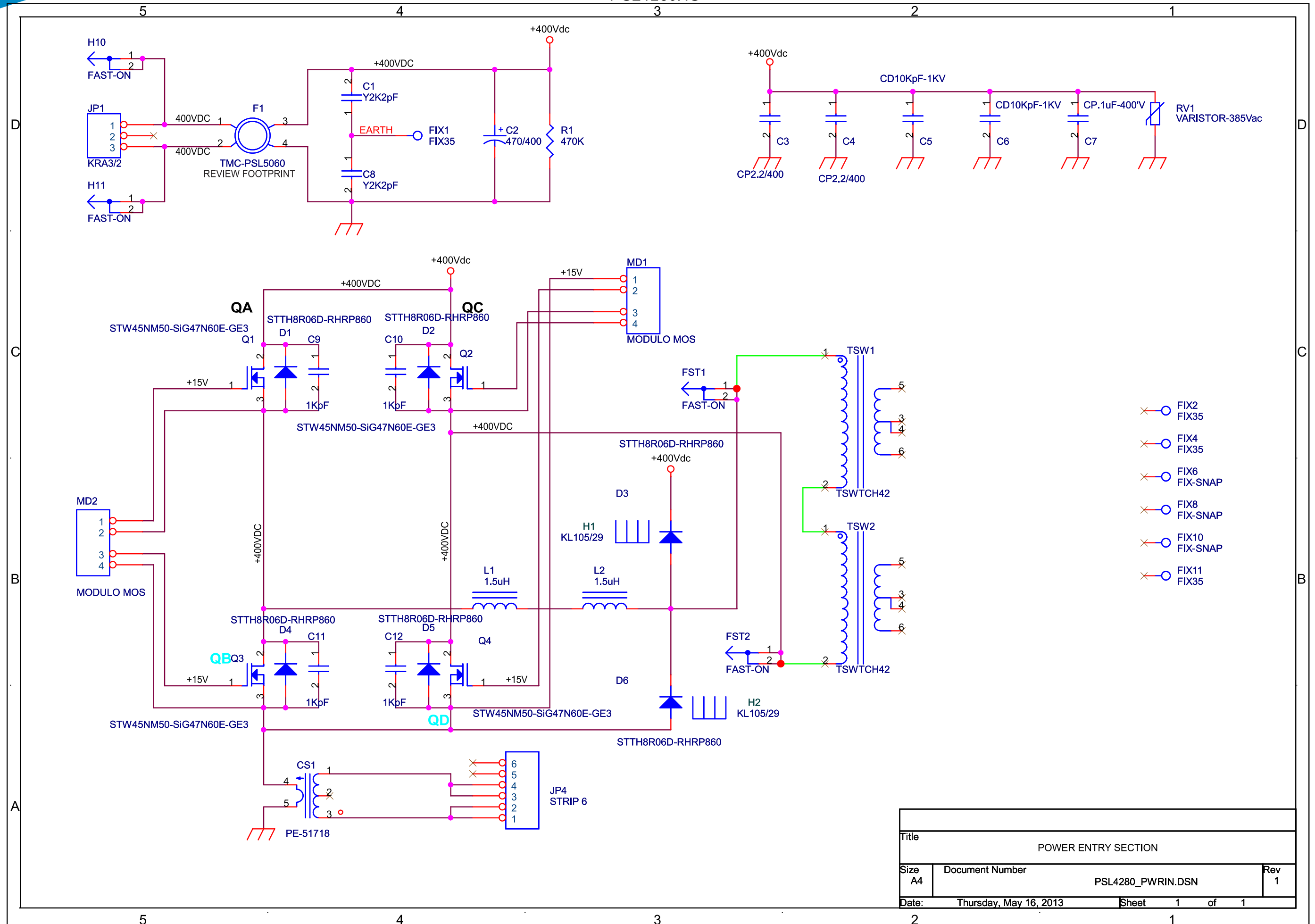


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DATE:	13 JUNE 2013

PSL4280HS



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Title		
POWER ENTRY SECTION		
Size	Document Number	Rev
A4	PSL4280_PWRIN.DSN	1
Date:	Thursday, May 16, 2013	Sheet 1 of 1



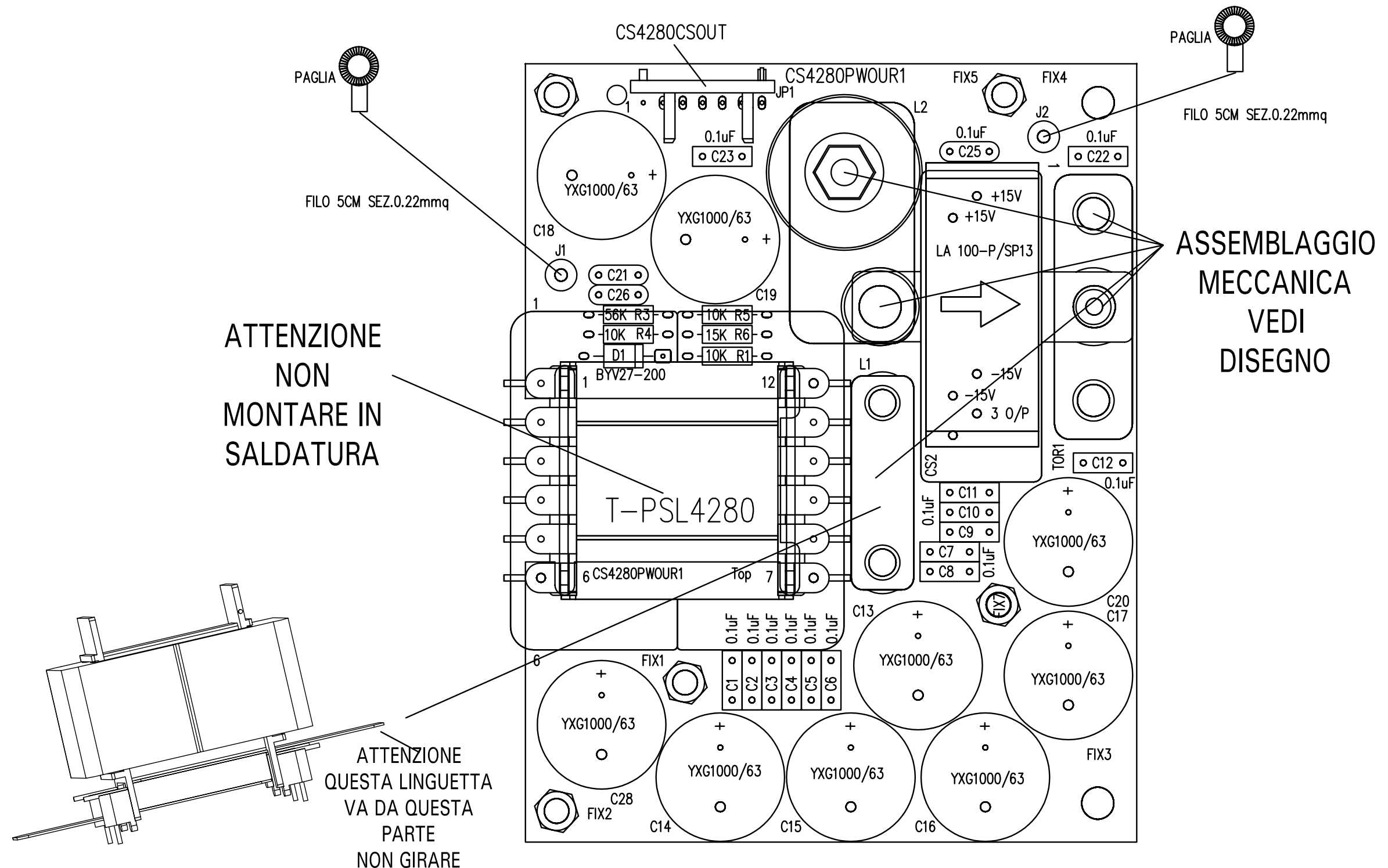
PSL4280HS

POWER ENTRY SECTION Revised: Thursday, May 16, 2013
PSL4280_PWRIN.DSN Revision: 1

Item	Quantity	Reference	Part
1	1	CS1	PE-51718
2	2	C8,C1	Y2K2pF
3	1	C2	470/400
4	2	C4,C3	CP2.2/400
5	2	C6,C5	CD10KpF-1KV
6	1	C7	CP.1uF-400'V
7	4	C9,C10,C11,C12	1KpF
8	6	D1,D2,D3,D4,D5,D6	STTH8R06D-RHRP860
9	4	FIX1,FIX2,FIX4,FIX11	FIX35
10	3	FIX6,FIX8,FIX10	FIX-SNAP
11	4	FST1,FST2,H10,H11	FAST-ON
12	1	F1	TMC-PSL5060
13	2	H1,H2	KL105/29
14	1	JP1	KRA3/2
15	1	JP4	STRIP 6
16	2	L2,L1	1.5uH
17	2	MD1,MD2	MODULE MOS
18	4	Q1,Q2,Q3,Q4	STW45NM50-SiG47N60E-GE3
19	1	RV1	VARISTOR-385Vac
20	1	R1	470K
21	2	TSW1,TSW2	TSWTCH42

PSL4280HS

POWER OUTPUT ASSEMBLY PLAN PSL 4280 R1

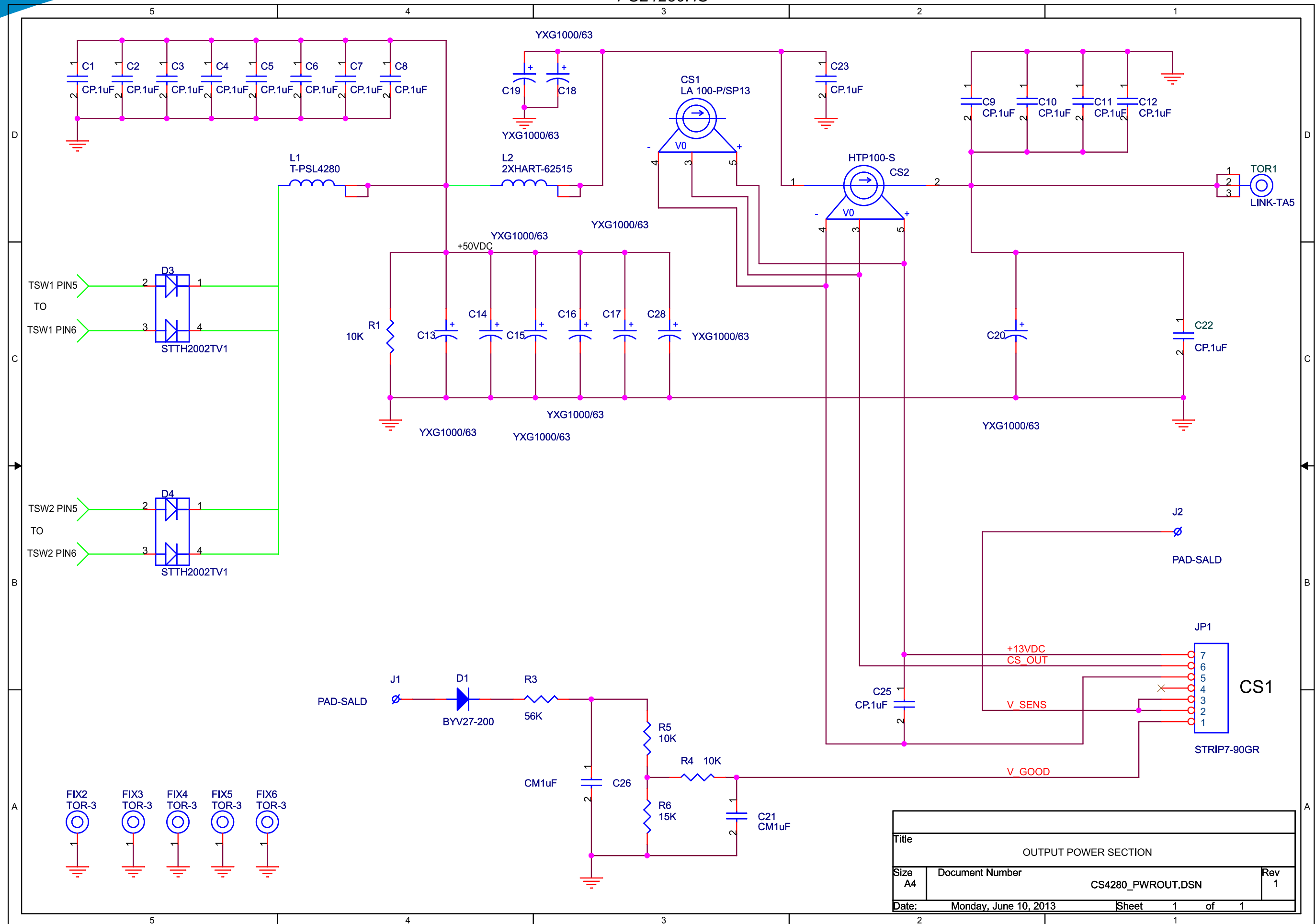


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DOCUMENT NUMBER CS4280PWROUT_R1_MNT. DWG	REV 1
DATE:	10 JUNED 2013

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Title		
OUTPUT POWER SECTION		
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A4	CS4280_PWROUT.DSN	1
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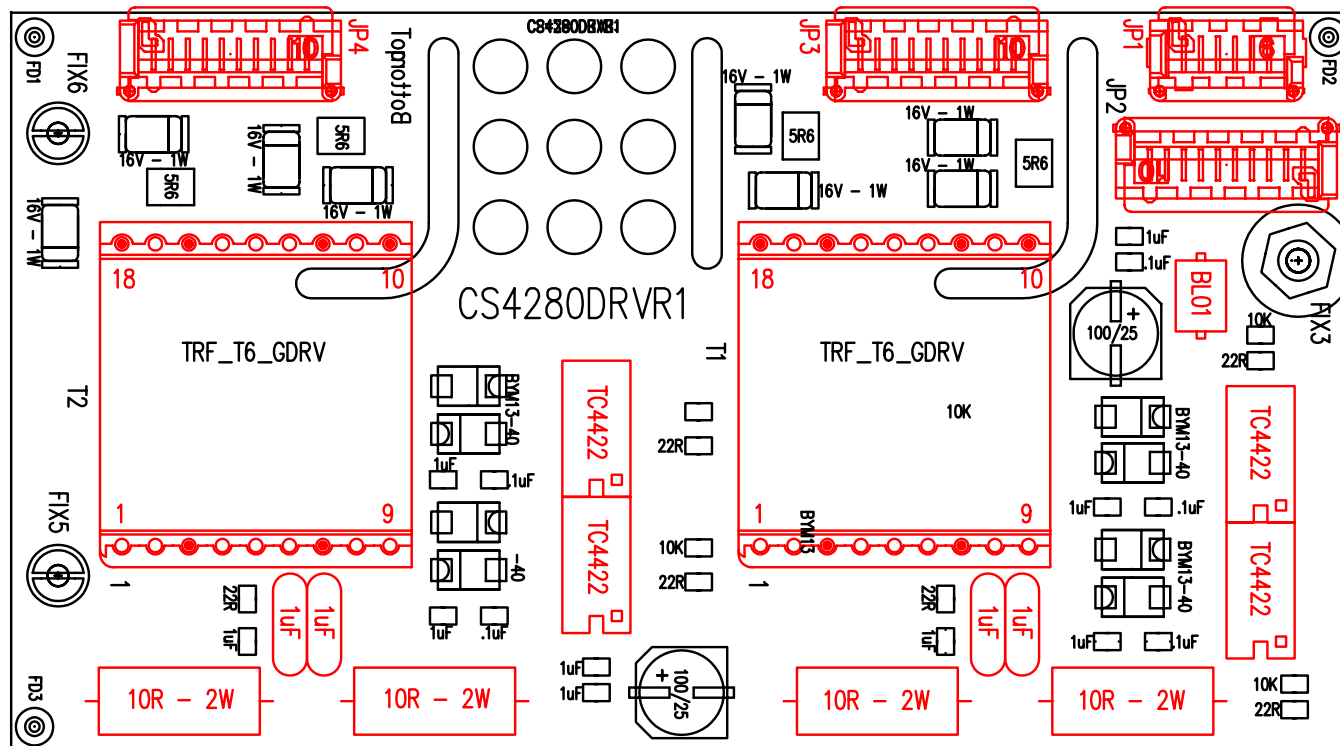
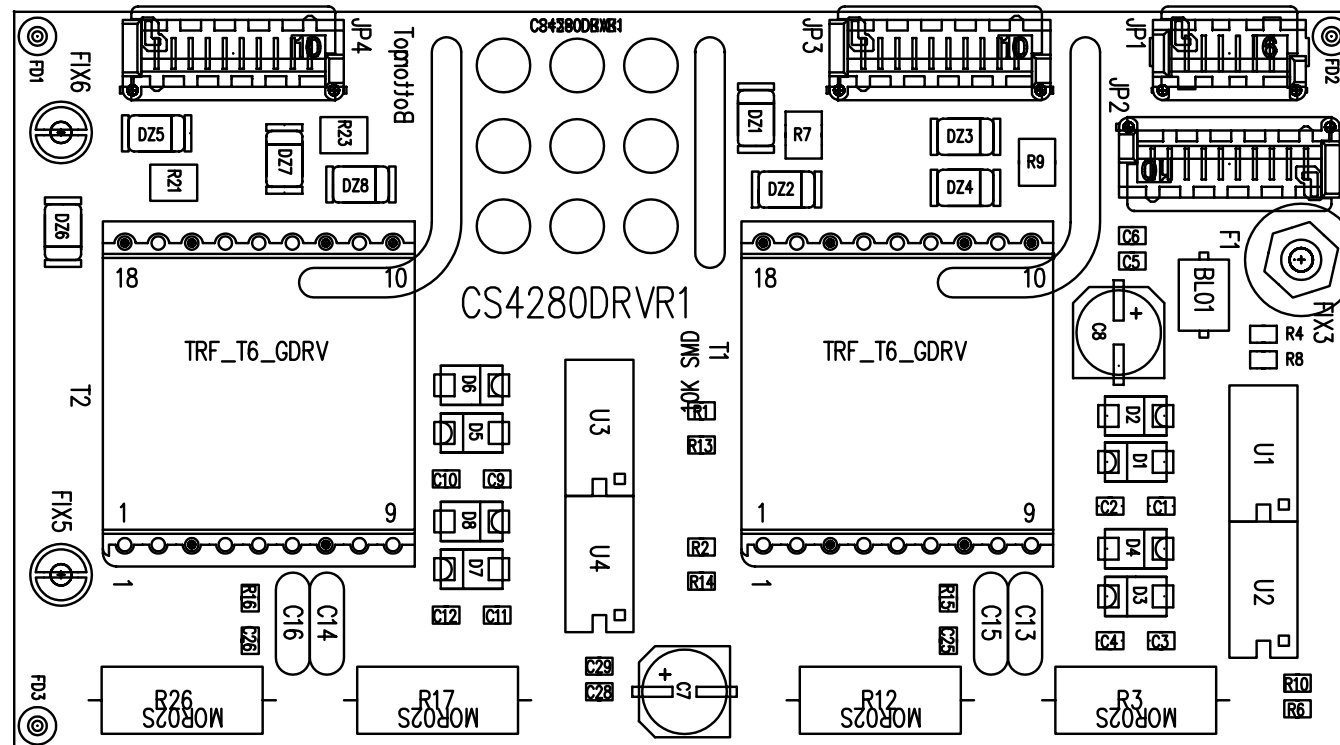


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CONNECT TO NTC OUT Revised: Monday, June 10, 2013
CS4280CSOUR0.DSN Revision: 1

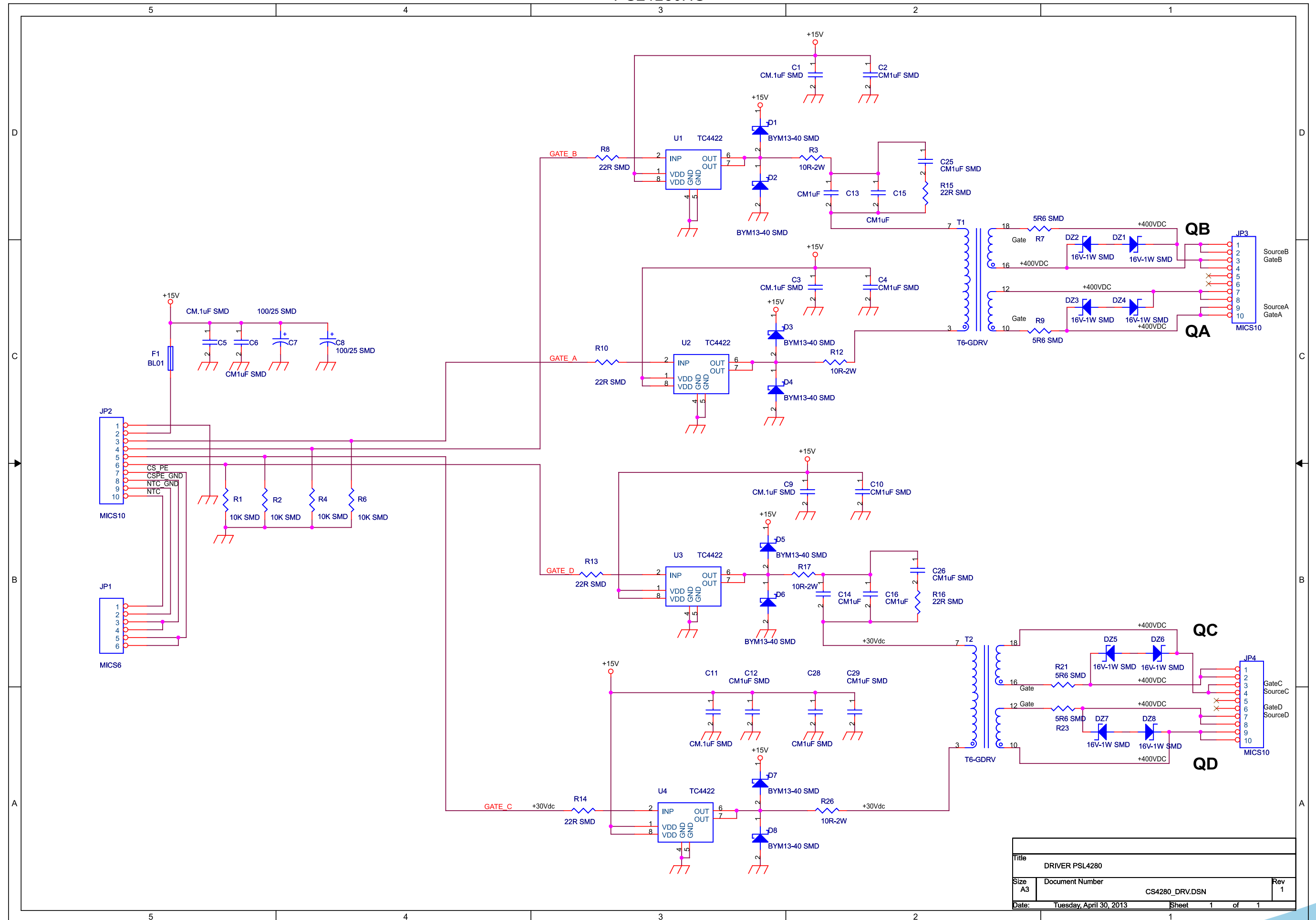
Item	Quantity	Reference	Part
1	2	C1,C2	CM.1uF
2	1	JP1	MICS6
3	1	JP2	STRIP7-90GR
4	1	J1	JUMP 2P
5	1	R1	10R-1/4W

DRV ASSEMBLY PLAN PSL 4280 R1



ARCHIVIO: X:\WORKDWG\	
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DOCUMENT NUMBER CS4280DRV_R1_MNT. DWG	REV 1
DATE: 23 JUNE 2013	

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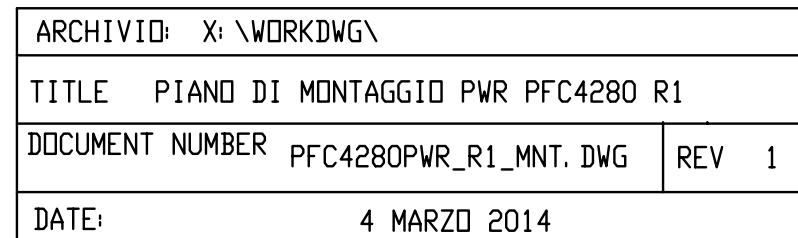


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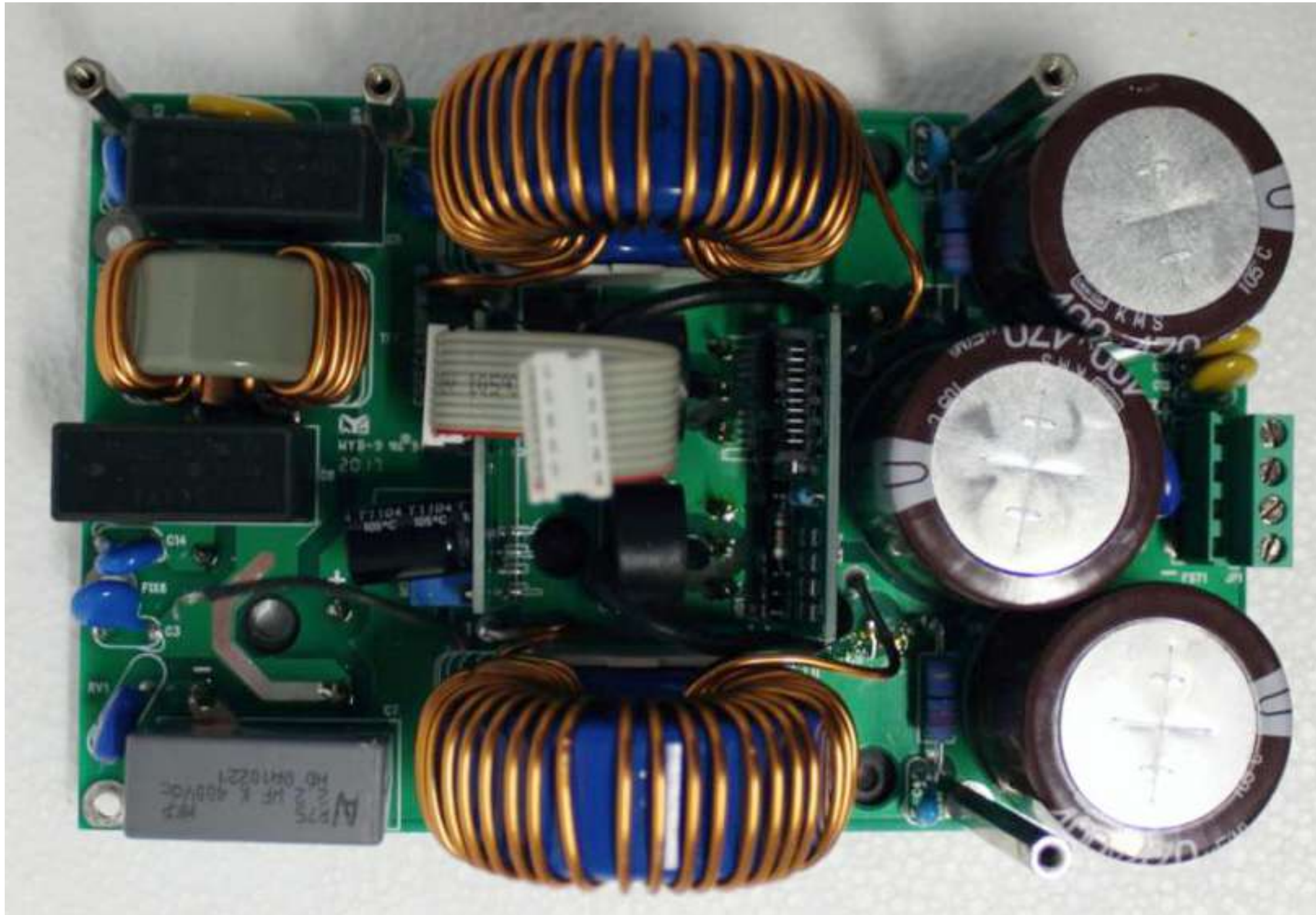
DRIVER PSL4280 Revised: Tuesday, April 30, 2013
 CS4280_DRV.DSN Revision: 1

Item	Quantity	Reference	Part
1	5	C1,C3,C5,C9,C11	CM.1uF SMD
2	9	C2,C4,C6,C10,C12,C25,C26,C28,C29	CM1uF SMD
3	2	C8,C7	100/25 SMD
4	4	C13,C14,C15,C16	CM1uF
5	8	DZ1,DZ2,DZ3,DZ4,DZ5,DZ6,DZ7,DZ8	16V-1W SMD
6	8	D1,D2,D3,D4,D5,D6,D7,D8	BYM13-40 SMD
7	1	F1	BL01
8	1	JP1	MICS6
9	3	JP2,JP3,JP4	MICS10
10	4	R1,R2,R4,R6	10K SMD
11	4	R3,R12,R17,R26	10R-2W
12	4	R7,R9,R21,R23	5R6 SMD
13	6	R8,R10,R13,R14,R15,R16	22R SMD
14	2	T1,T2	T6-GDRV
15	4	U1,U2,U3,U4	TC4422

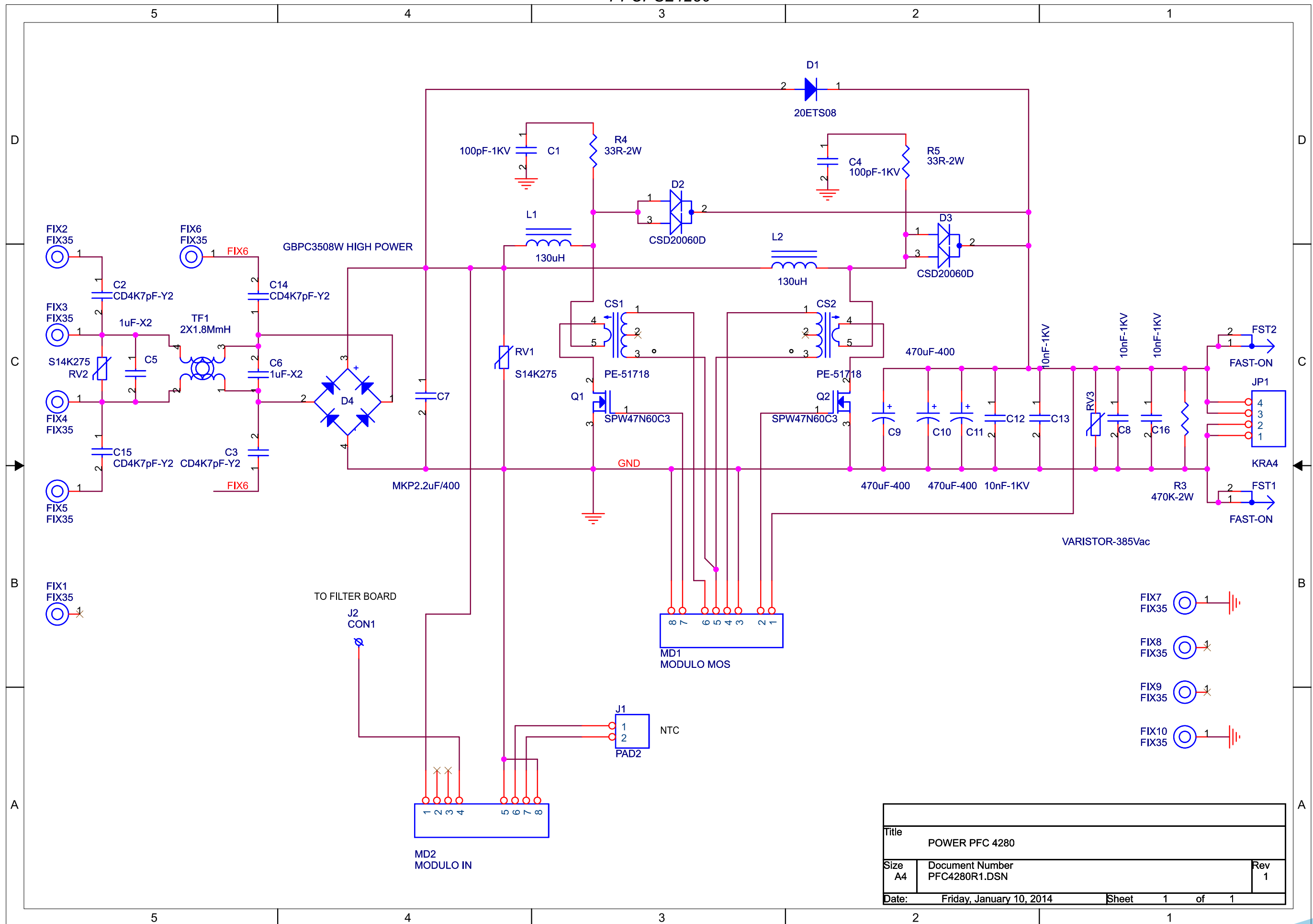
PWR ASSEMBLY PLAN PFC 4280 R1



PFCPSL4280



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Title		
POWER PFC 4280		
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A4	PFC4280R1.DSN	1
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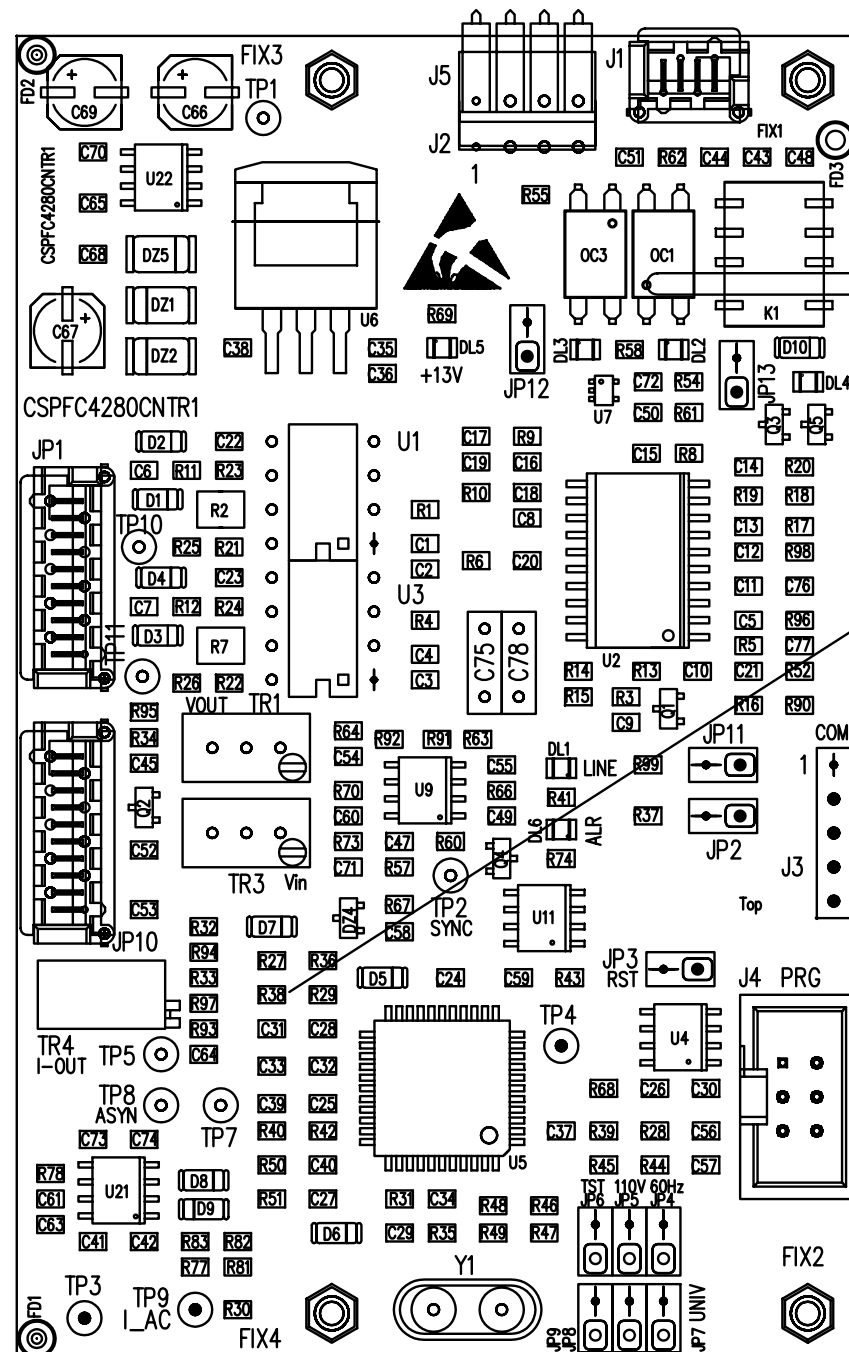
POWER PFC 4280 Revised: Friday, January 10, 2014
 PFC4280R1.DSN Revision: 1

Item	Quantity	Reference	Part
1	2	CS2,CS1	PE-51718
2	2	C1,C4	100pF-1KV
3	4	C2,C3,C14,C15	CD4K7pF-Y2
4	2	C5C6	1uF-X2
5	1	C7	MKP2.2uF/400
6	4	C8,C12,C13,C16	10nF-1KV
7	3	C9,C10,C11	470uF-400
8	1	D1	20ETS08
9	2	D2,D3	CSD20060D
10	1	D4	GBPC3508W HIGH POWER
11	10	FIX1,FIX2,FIX3,FIX4,FIX5,FIX6,FIX7,FIX8,FIX9,FIX10	FIX35
12	2	FST1,FST2	FAST-ON
13	1	JP1	KRA4
14	1	J1	PAD2
15	1	J2	CON1
16	2	L1,L2	130uH
17	1	MD1	MODULE MOS
18	1	MD2	MODULE IN
19	2	Q1,Q2	SPW47N60C3
20	2	RV2,RV1	S14K275
21	1	RV3	VARISTOR-385Vac
22	1	R3	470K-2W
23	2	R4,R5	33R-2W
24	1	TF1	2X1.8MmH

CNT ASSEMBLY PLAN PFC 4280 R1

TO PSL
FAMILY

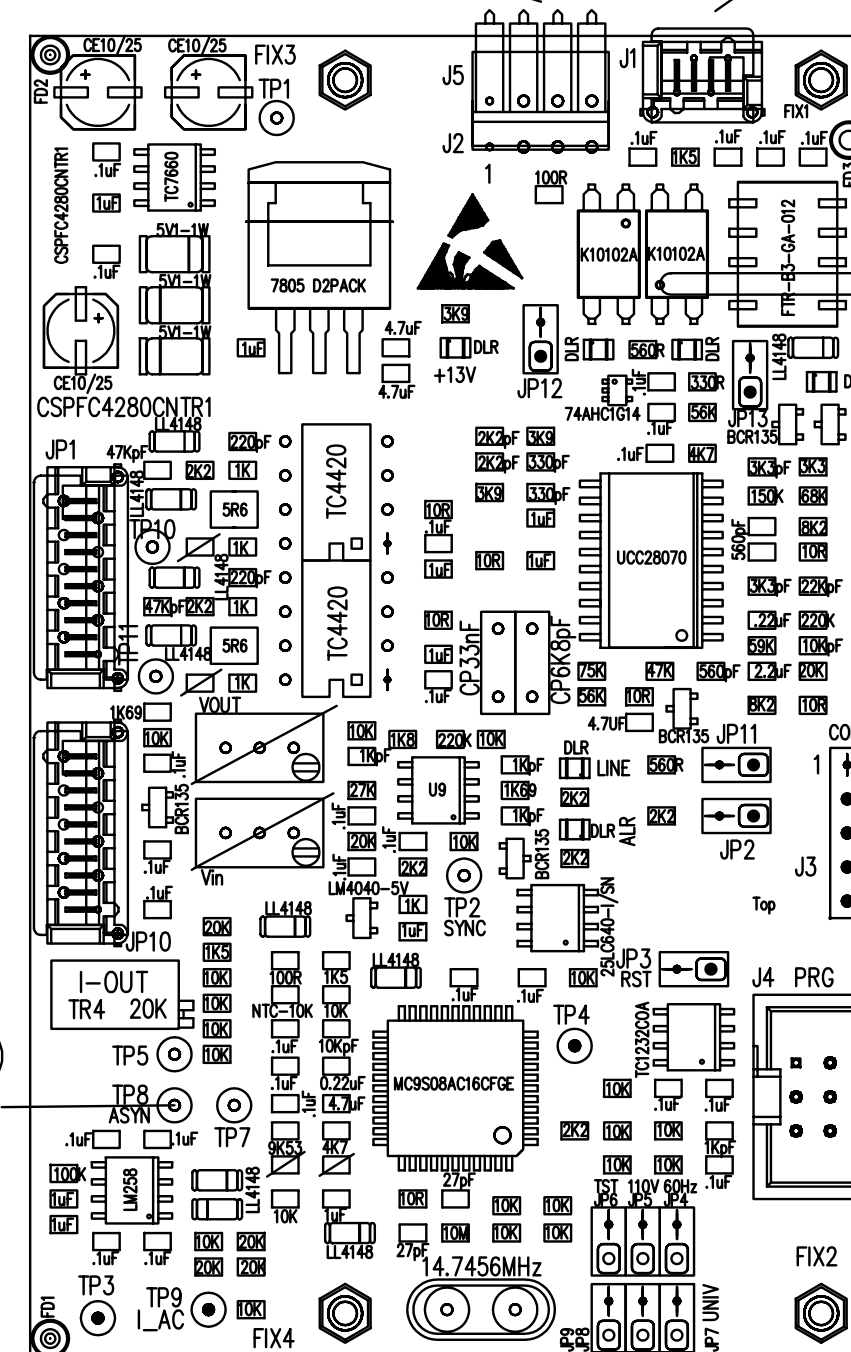
TO PSL4280



ATTENZIONE
R38 SALDATO SOTTO
NO RE-WORK.

NOTA:
TUTTI I TP VANNO
MONTATI CON LA
PARTE CORTA
L.C.

FLT MOS

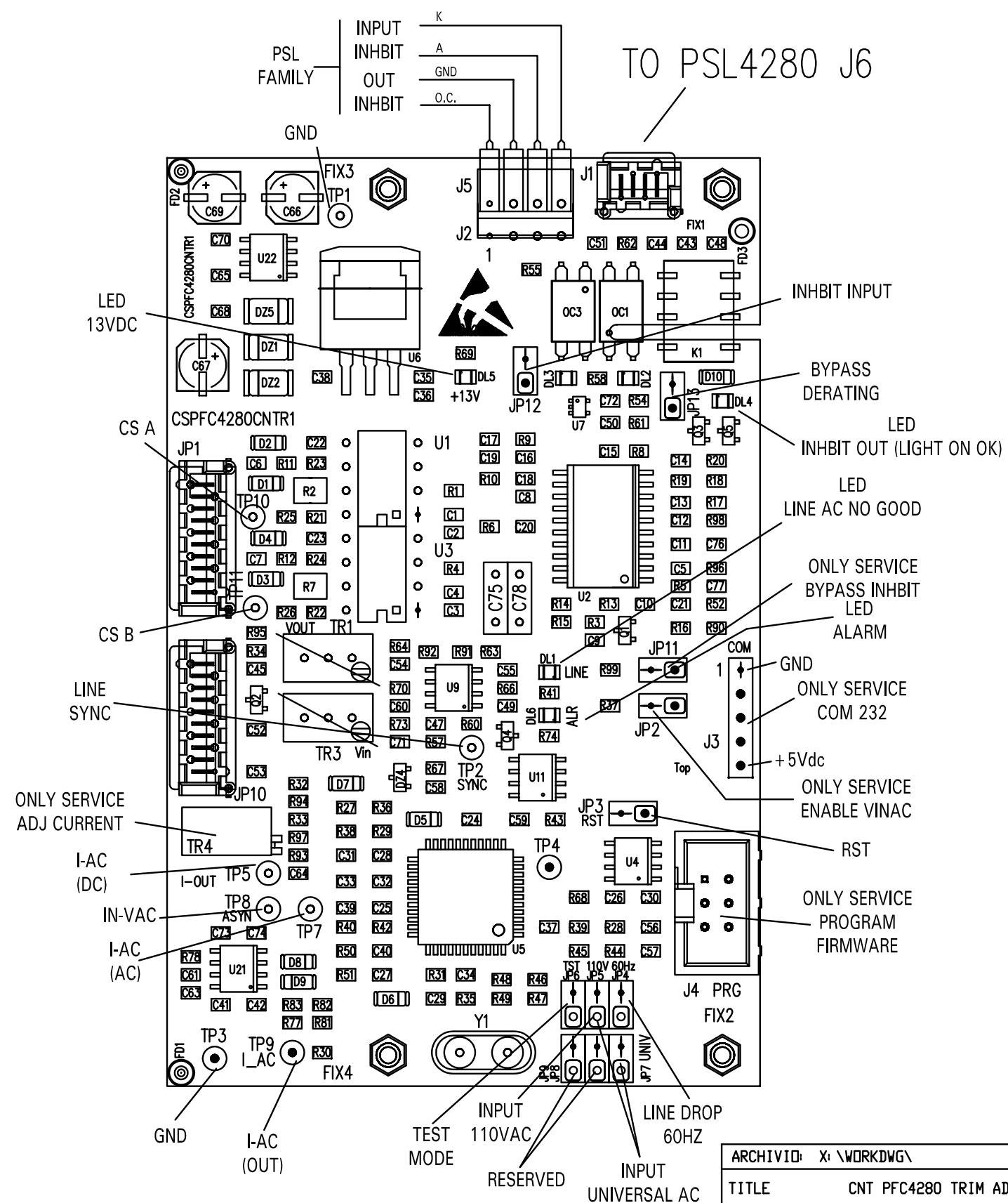


MONTARE
COME T.P.

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DOCUMENT NUMBER PFC4280CNT_R1_MNT. DWG	REV 2
DATE: 24 SETTEMBRE 2014	

PFCPSL4280

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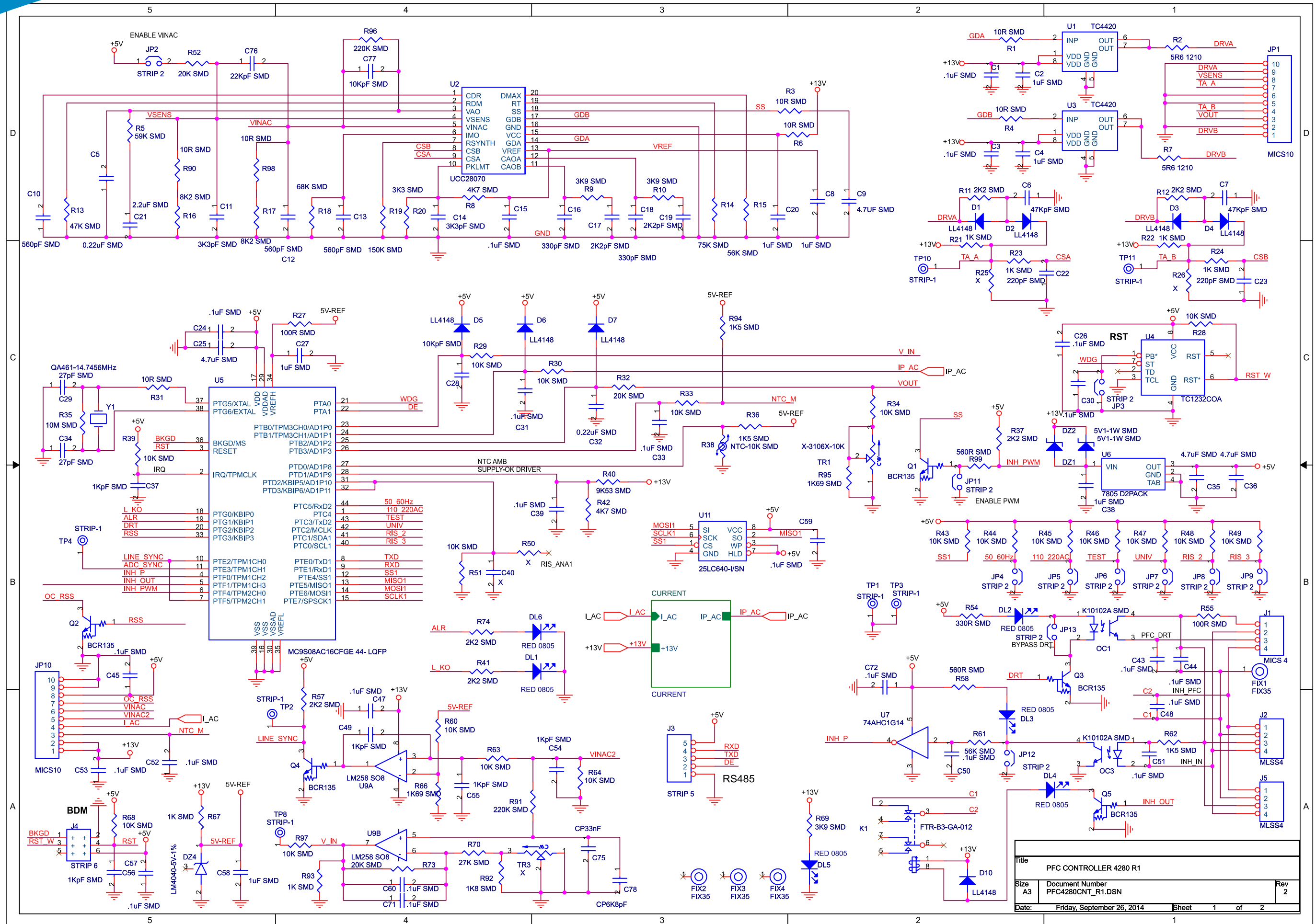


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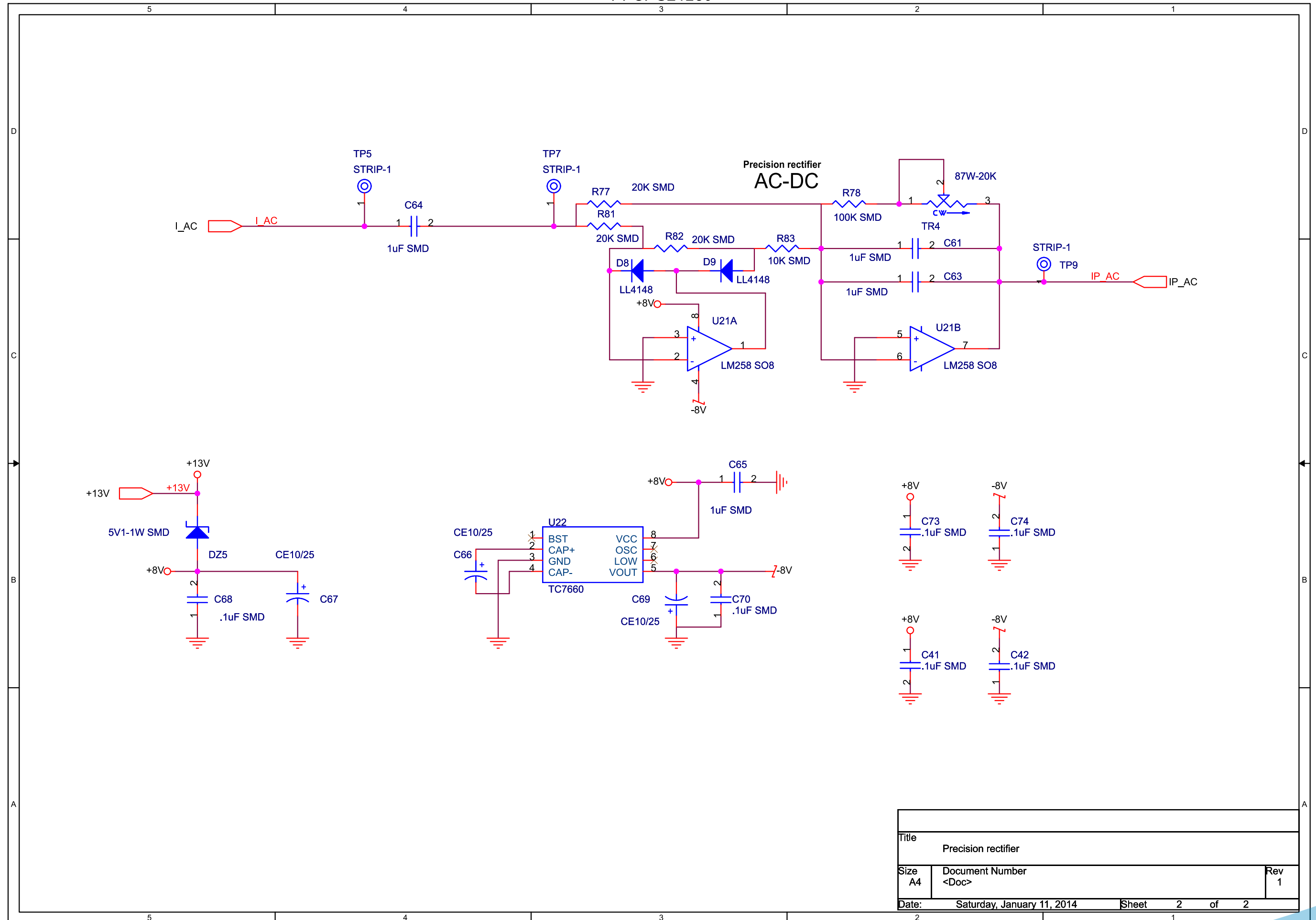
PFCPSL4280



PFCPSL4280



PFPCSL4280



Title		
Precision rectifier		
Size A4	Document Number <Doc>	Rev 1
Date: Saturday, January 11, 2014	Sheet 2	of 2

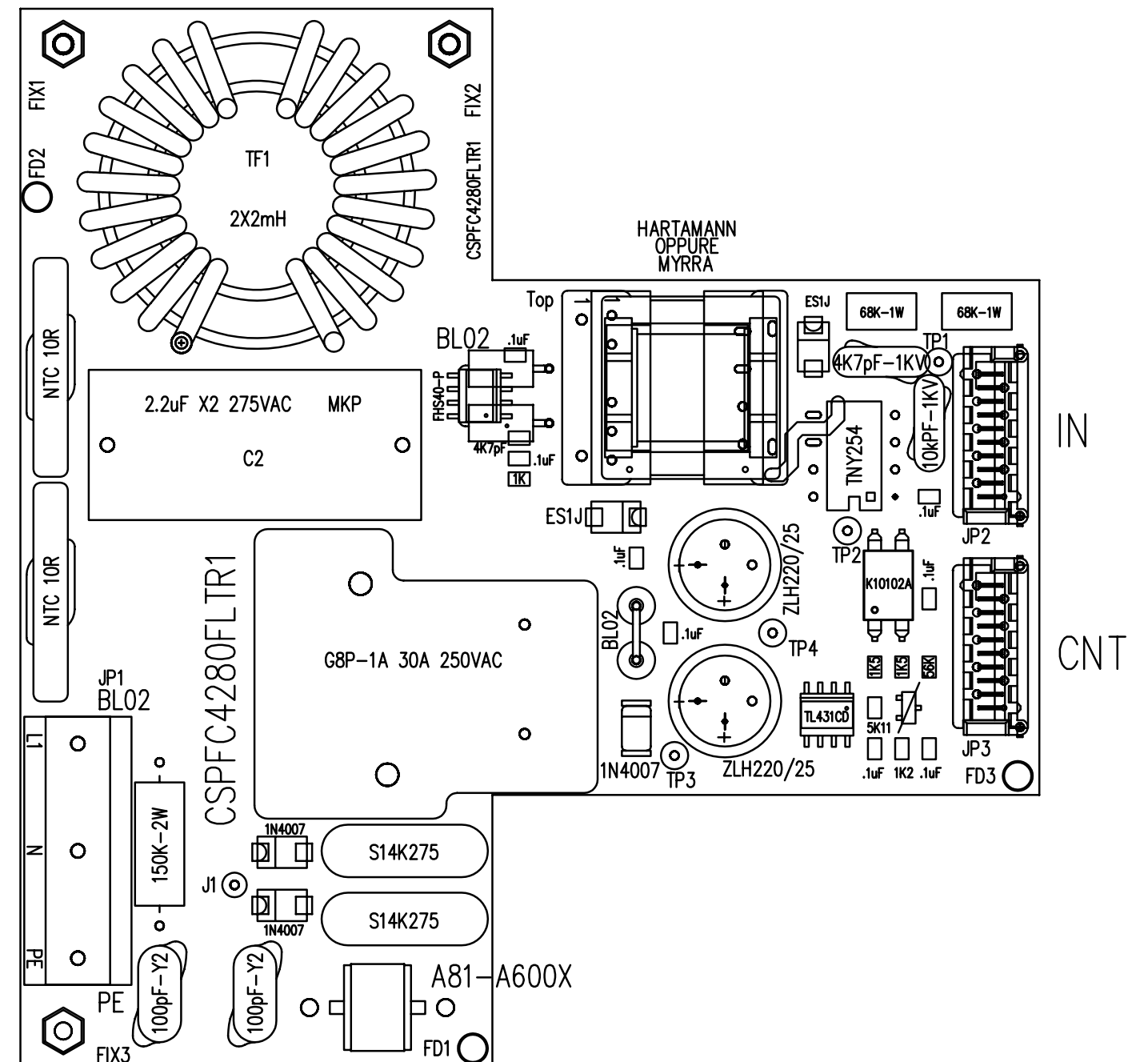


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PFC CONTROLLER 4280 R1 Revised: Monday, April 28, 2014
 PFC4280CNT_R0.DSN Revision: 1

Item	Quantity	Reference	Part
1	29	C1,C3,C15,C24,C26,C30,C31,C33,C39,C41,C42,C43,C44,C45,C47,C48,C50,C51,C52,C53,C57,C59,C60,C68,C70,C71,C72,C73,C74	.1uF SMD
2	11	C2,C4,C8,C20,C27,C38,C58,C61,C63,C64,C65	1uF SMD
3	2	C5,C32	0.22uF SMD
4	2	C6,C7	47KpF SMD
5	4	C9,C25,C35,C36	4.7UF SMD
6	4	C10,C12,C13,C49	560pF SMD
7	2	C14,C11	3K3pF SMD
8	2	C16,C18	330pF SMD
9	2	C17,C19	2K2pF SMD
10	1	C21	2.2uF SMD
11	2	C23,C22	220pF SMD
12	2	C28,C77	10KpF SMD
13	2	C34,C29	27pF SMD
14	4	C37,C54,C55,C56	1KpF SMD
15	5	TR3,R25,R26,C40,R50	X
16	3	C66,C67,C69	CE10/25
17	1	C75	CP33nF
18	1	C76	22KpF SMD
19	1	C78	CP6K8pF
20	6	DL1,DL2,DL3,DL4,DL5,DL6	RED 0805
21	3	DZ1,DZ2,DZ5	5V1-1W SMD
22	1	DZ4	LM4040-5V-1%
23	10	D1,D2,D3,D4,D5,D6,D7,D8,D9,D10	LL4148
24	4	FIX1,FIX2,FIX3,FIX4	FIX35
25	2	JP1,JP10	MICS10
26	11	JP2,JP3,JP4,JP5,JP6,JP7,JP8,JP9,JP11,JP12,JP13	STRIP 2
27	1	J1	MICS 4
28	2	J5,J2	MLSS4
29	1	J3	STRIP 5
30	1	J4	STRIP 6
31	1	K1	FTR-B3-GA-012
32	2	OC1,OC3	K10102A SMD
33	5	Q1,Q2,Q3,Q4,Q5	BCR135
34	7	R1,R3,R4,R6,R31,R90,R98	10R SMD
35	2	R2,R7	5R6 1210
36	1	R5	59K SMD
37	2	R42,R8	4K7 SMD
38	3	R9,R10,R69	3K9 SMD
39	6	R11,R12,R37,R41,R57,R74	2K2 SMD
40	1	R13	47K SMD
41	1	R14	75K SMD
42	2	R15,R61	56K SMD
43	2	R17,R16	8K2 SMD
44	1	R18	68K SMD
45	1	R19	150K SMD
46	1	R20	3K3 SMD
47	6	R21,R22,R23,R24,R67,R93	1K SMD
48	2	R27,R55	100R SMD
49	20	R28,R29,R30,R33,R34,R39,R43,R44,R45,R46,R47,R48,R49,R51,R60,R63,R64,R68,R83,R97	10K SMD
50	6	R32,R52,R73,R77,R81,R82	20K SMD
51	1	R35	10M SMD
52	3	R36,R62,R66,R94	1K5 SMD
53	1	R38	NTC-10K SMD
54	1	R40	9K53 SMD
55	1	R54	330R SMD

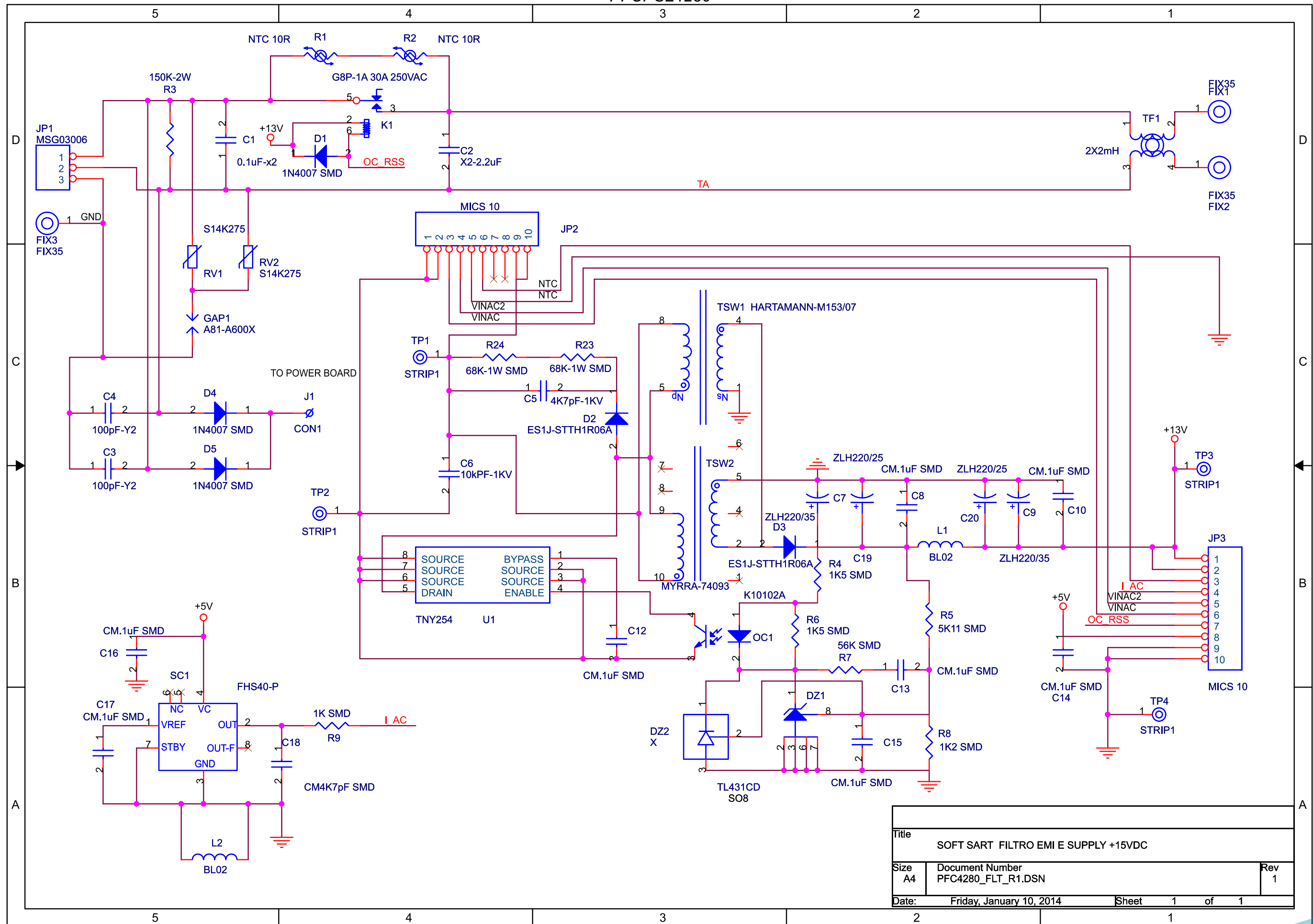
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56	2	R58,R99	560R SMD
57	1	R70	27K SMD
58	1	R78	100K SMD
59	2	R96,R91	220K SMD
60	1	R92	1K8 SMD
61	1	R95	1K69 SMD
62	10	TP1,TP2,TP3,TP4,TP5,TP7,TP8,TP9,TP10,TP11	STRIP-1
63	1	TR1	X-3106X-10K
64	1	TR4	87W-20K
65	2	U3,U1	TC4420
66	1	U2	UCC28070
67	1	U4	TC1232COA
68	1	U5	MC9S08AC16CFGE 44- LQFP
69	1	U6	7805 D2PACK
70	1	U7	74AHC1G14
71	2	U21,U9	LM258 SO8
72	1	U11	25LC640-I/SN
73	1	U22	TC7660
74	1	Y1	QA461-14.7456MHz

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PFCPSL4280



PFCPSL4280



Title		
SOFT SART FILTRO EMI E SUPPLY +15VDC		
Size	Document Number	Rev
A4	PFC4280_FLT_R1.DSN	1
Date:	Friday, January 10, 2014	Sheet 1 of 1



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SOFT SART FILTRO EMI E SUPPLY +15VDC Revised: Friday, January 10, 2014
PFC4280_FLT_R1.DSN Revision: 1

Item	Quantity	Reference	Part
1	1	C1	0.1uF-x2
2	1	C2	X2-2.2uF
3	2	C3,C4	100pF-Y2
4	1	C5	4K7pF-1KV
5	1	C6	10kPF-1KV
6	2	C9,C7	ZLH220/35
7	8	C8,C10,C12,C13,C14,C15,C16,C17	CM.1uF SMD
8	1	C18	CM4K7pF SMD
9	2	C20,C19	ZLH220/25
10	1	DZ1	TL431CD
11	1	DZ2	X
12	3	D1,D4,D5	1N4007 SMD
13	2	D3,D2	ES1J-STTH1R06A
14	3	FIX1,FIX2,FIX3	FIX35
15	1	GAP1	A81-A600X
16	1	JP1	MSG03006
17	2	JP2,JP3	MICS 10
18	1	J1	CON1
19	1	K1	G8P-1A 30A 250VAC
20	2	L1,L2	BL02
21	1	OC1	K10102A
22	2	RV1,RV2	S14K275
23	2	R2,R1	NTC 10R
24	1	R3	150K-2W
25	2	R6,R4	1K5 SMD
26	1	R5	5K11 SMD
27	1	R7	56K SMD
28	1	R8	1K2 SMD
29	1	R9	1K SMD
30	2	R23,R24	68K-1W SMD
31	1	SC1	FHS40-P
32	1	TF1	2X2mH
33	4	TP1,TP2,TP3,TP4	STRIP1
34	1	TSW1	HARTAMANN-M153/07
35	1	TSW2	MYRRA-74093
36	1	U1	TNY254



150W Single Output with PFC Function EPP-150 series



- Features :
- 4"x2" Compact size
 - Universal AC input / Full range
 - Built-in active PFC function
 - High efficiency up to 93%
 - Protections: Short circuit / Overload / Over voltage/ Over temperature
 - 100W free air convection, 150W with 20CFM forced air
 - LED indicator for power on
 - No load power consumption<0.5W
 - Built-in 12V/0.3A auxiliary output
 - 3 years warranty



SPECIFICATION

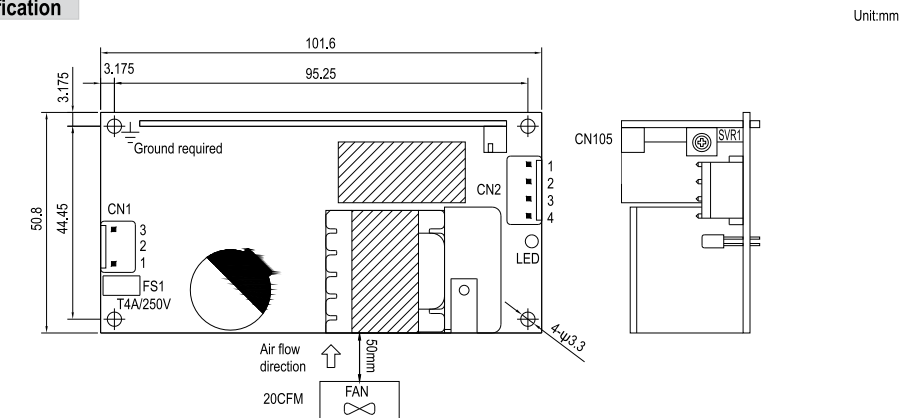
MODEL		EPP-150-12	EPP-150-15	EPP-150-24	EPP-150-27	EPP-150-48
OUTPUT	DC VOLTAGE	12V	15V	24V	27V	48V
	RATED CURRENT (convection)	8.4A	6.7A	4.2A	3.71A	2.1A
	RATED CURRENT (20CFM FAN)	12.5A	10A	6.25A	5.56A	3.125A
	CURRENT RANGE (convection)	0 ~ 8.4A	0 ~ 6.7A	0 ~ 4.2A	0 ~ 3.71A	0 ~ 2.1A
	CURRENT RANGE (20CFM FAN)	0 ~ 12.5A	0 ~ 10A	0 ~ 6.25A	0 ~ 5.56A	0 ~ 3.125A
	RATED POWER (convection)	100.8W	100.5W	100.8W	100.17W	100.8W
	RATED POWER (20CFM FAN)	150W	150W	150W	150.12W	150W
	RIPPLE & NOISE (max.) <small>Note.2</small>	130mVp-p	150mVp-p	240mVp-p	240mVp-p	300mVp-p
	VOLTAGE ADJ. RANGE	11.76 ~ 12.6V	14.7 ~ 15.75V	23.52 ~ 25.2V	26.46 ~ 28.35V	47.04 ~ 50.4V
	VOLTAGE TOLERANCE <small>Note.3</small>	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
SETUP, RISE TIME	1000ms, 30ms/2 30VAC 2000ms, 30ms/115VAC at full load					
HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load					
INPUT	VOLRAGE RANGE <small>Note.5</small>	90 ~ 264VAC 127 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load				
	EFFICIENCY (Typ.)	91.5%	92%	93%	92%	92%
	AC CURRENT (Typ.)	1.8A/115VAC 1 A/230VAC				
	INRUSH CURRENT (Typ.)	COLD START 70A/230VAC				
	LEAKAGE CURRENT	<2mA/240VAC				
PROTECTION	OVER LOAD	105 ~ 145% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed				
	OVER VOLTAGE	13.2 ~ 15.6V	16.83 ~ 19.5V	27.7 ~ 31.5V	30.2 ~ 34.05V	51.3 ~ 62.7V
		Protection type : Shut down o/p voltage, re-power on to recover				
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, re-power on to recover				
FUNCTION	AUXILIARY POWER(AUX)	12V@0.3A for driving a fan, tolerance ± 10% at main output 100% load				
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	± 0.03%/°C (0 ~ 45°C)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved				
		I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC/ 500VDC / 25°C/ 70% RH				
	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, heavy in				
OTHERS	MTBF	207.1Khrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	101.6*50.8*29mm (L*W*H)				
	PACKING	0.2Kg; 72pcs/15.4Kg/0.82CUFT				
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 5. Derating may be needed under low input voltages. Please check the derating curve for more details.					

File Name:EPP-150-SPEC 2016-06-11



150W Single Output with PFC Function EPP-150 series

Mechanical Specification



AC Input Connector (CN1) : JST B3P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	AC/L	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2	No Pin		
3	AC/N		

≡ : Grounding required

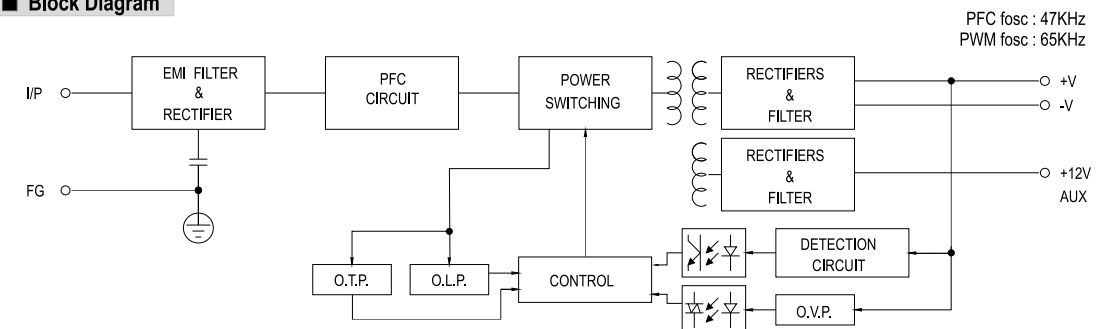
DC Output Connector (CN2) : JST B4P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,2	DC COM	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
3,4	+V		

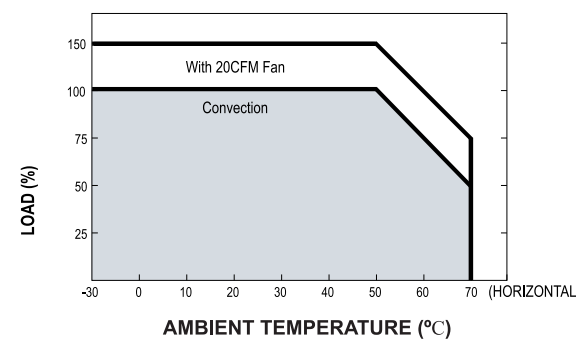
FAN Connector(CN105) : JSTBYB-PH-K-S or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	+12V	JST PHR-Y or equivalent	JST SPH-Y-T-P-P-S or equivalent
2	DC COM		

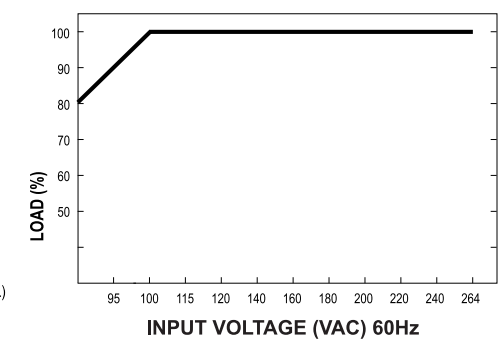
Block Diagram



Output Derating



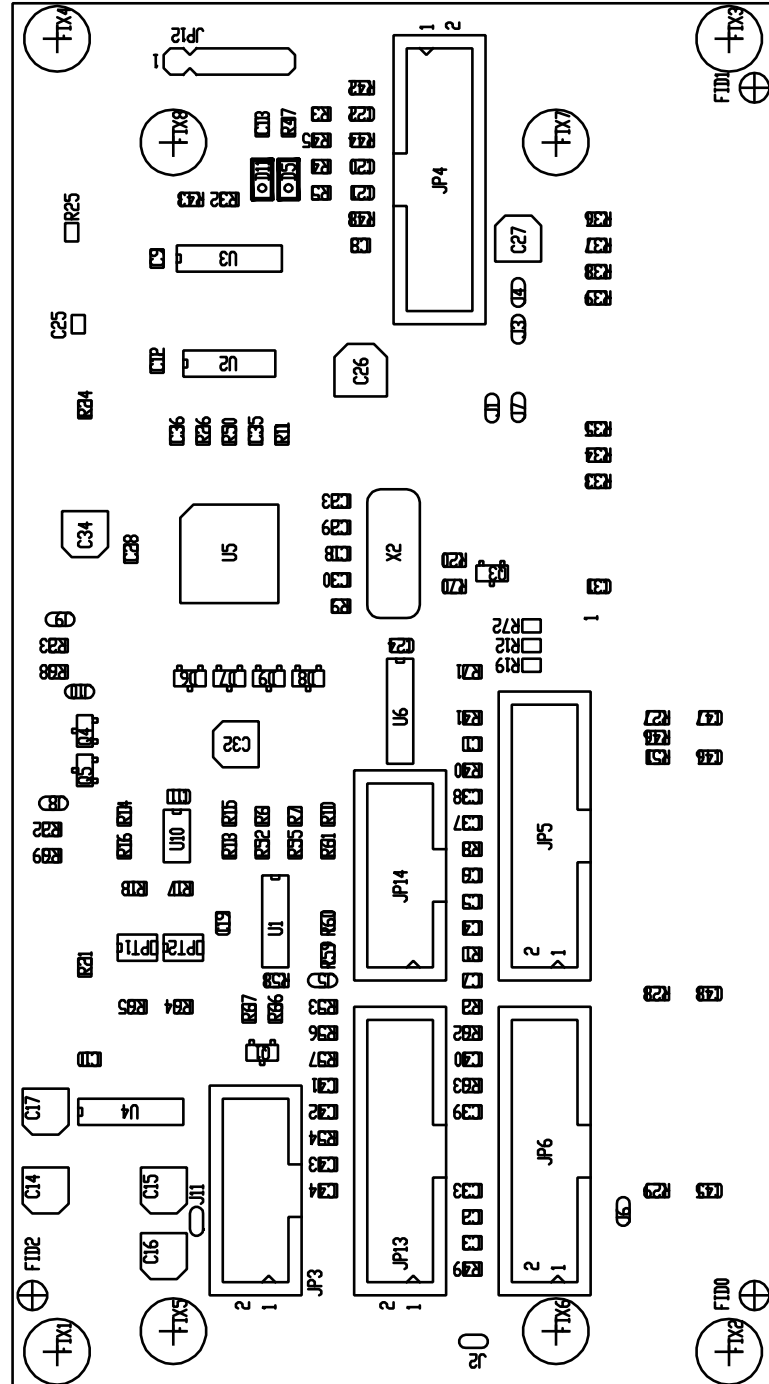
Output Derating VS Input Voltage




File Name:EPP-150-SPEC 2016-06-11

PSSWEPP15024



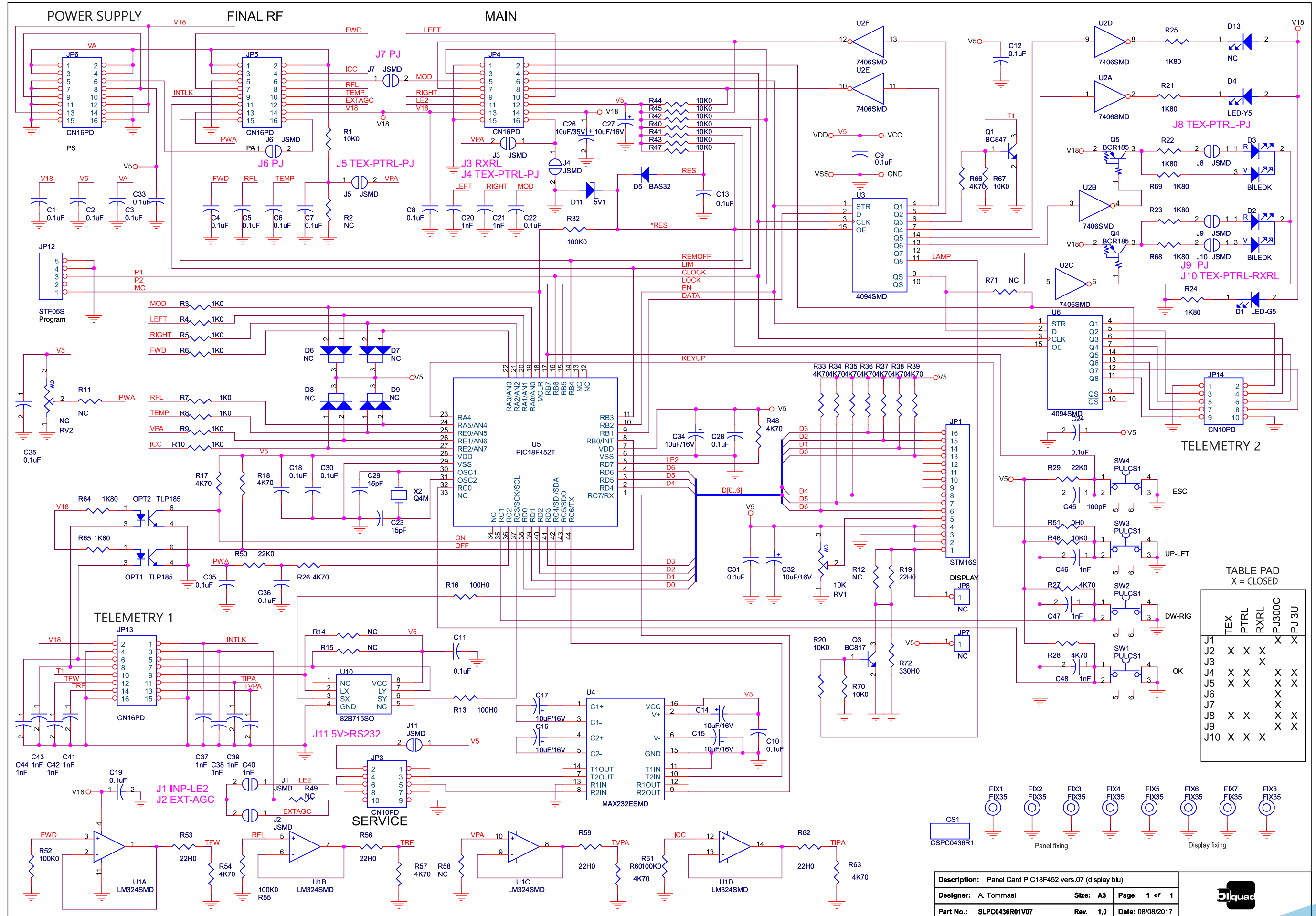


	<u>PRODUCT NAME</u> : TEX-LCD, PJ-LCD, LINK, URP	<u>PART NAME</u> : SEM.SCH.PANEL CARD PIC18F452
	<u>DESIGNER</u> : A. TOMMASI	<u>DATE</u> : 03/09/15 <u>REVISION</u> : 1.0 <u>SCALE</u> : 1:1 <u>SIZE</u> : A4 <u>PAGE</u> : 1 DI 1
<u>ARCHIVING</u> : "RVRUT" SERVER, "RILASCIATI" FOLDER		<u>PROJECT CODE</u> : <> <u>DOCUMENT CODE</u> : SLPC0436R01V01

SLPC0436R01V07



SLPC0436R01V07





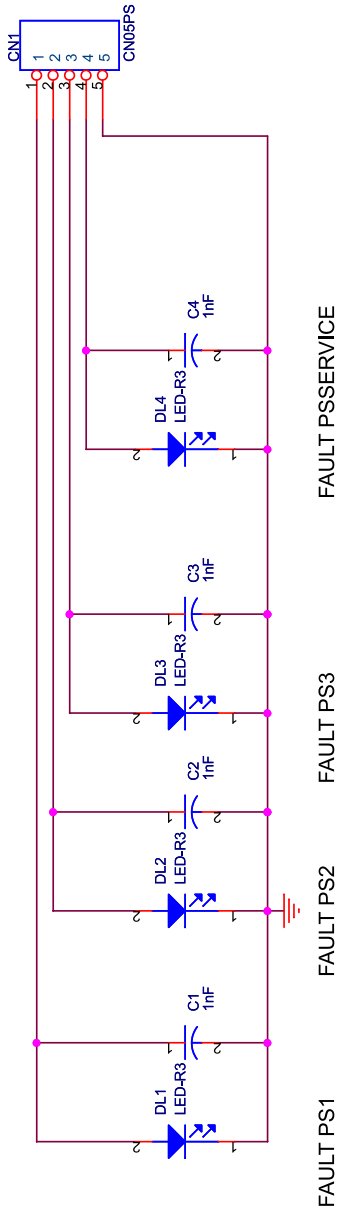
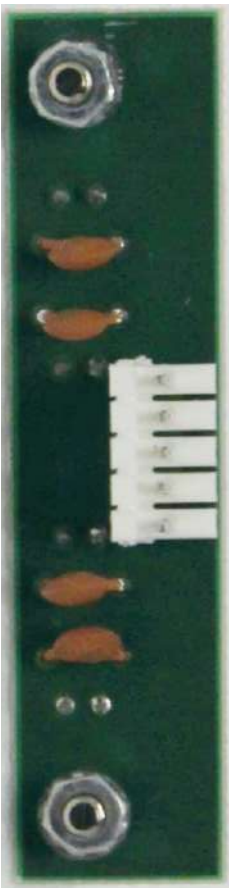
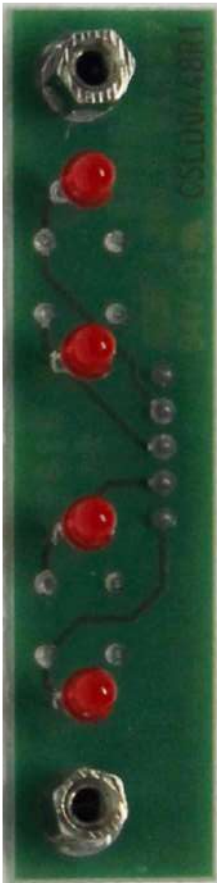
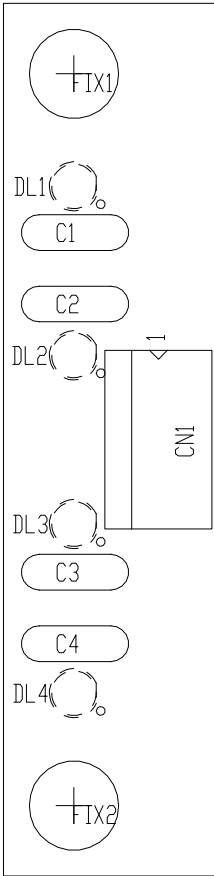
SLPC0436R01V07

Panel Card PIC18F452 vers.07 (display blu)
SLPC0436R01V07 Revision: 1.0
08/08/2017
A. Tommasi

Item	Quantity	Reference	Part	Description
1	1	CS1	CSPC0436R1	Printed circuit
2	24	C1,C2,C3,C4,C5,C6,C7,C8, C9,C10,C11,C12,C13,C18, C19,C22,C24,C25,C28,C30, C31,C33,C35,C36	0.1uF	Cond. SMD 0805
3	7	C14,C15,C16,C17,C27,C32, C34	10uF/16V	Cond. Elett. SMD d. 4mm
4	13	C20,C21,C37,C38,C39,C40, C41,C42,C43,C44,C46,C47, C48	1nF	Cond. SMD 0805
5	2	C23,C29	15pF	Cond. SMD 0805
6	1	C26	10uF/35V	Cond. Elett. SMD d. 5mm
7	1	C45	100pF	Cond. SMD 0805
8	1	D1	LED-G5	Green LED dia. 5mm
9	2	D2,D3	BILEDK	Double led V-R 5mm Cathode with.
10	1	D4	LED-Y5	Yellow LED dia. 5mm
11	1	D5	BAS32	MINIMELF SMD Diode
12	4	D6,D7,D8,D9	NC	Double SMD SOT23 Diode
13	1	D11	5V1	MINIMELF SMD Zener Diode
14	1	D13	NC	Yellow LED dia. 5mm
15	8	FIX1,FIX2,FIX3,FIX4,FIX5, FIX6,FIX7,FIX8	FIX35	3.5mm fixing hole
16	1	JP1	STM16S	16 pin female strip
17	2	JP3,JP14	CN10PD	Connetor 10 poli Flat cs
18	4	JP4,JP5,JP6,JP13	CN16PD	Connetor 16 poli Flat cs
19	2	JP7,JP8	NC	1 pin female strip
20	1	JP12	STF05S	5 pin female strip
21	11	J1,J2,J3,J4,J5,J6,J7,J8, J9,J10,J11	JSMD	SMD solder pad
22	2	OPT1,OPT2	TLP185	Optoisolatore SMD SO6
23	1	Q1	BC847	Trans. NPN SOT23
24	1	Q3	BC817	Trans. NPN SOT23
25	2	Q4,Q5	BCR185	Trans./Res. PNP SOT23
26	1	RV1	10K	Trimmer Rg V 3296W
27	1	RV2	NC	Trimmer Rg V 3296W
28	12	R1,R20,R40,R41,R42,R43, R44,R45,R46,R47,R67,R70	10K0	Res. SMD 0805 1%
29	1	R2	NC	Res. SMD 0805 1%
30	8	R3,R4,R5,R6,R7,R8,R9,R10	1K0	Res. SMD 0805 1%
31	7	R11,R12,R14,R15,R49,R58, R71	NC	Res. SMD 0805 1%
32	2	R13,R16	100H0	Res. SMD 0805 1%
33	18	R17,R18,R26,R27,R28,R33,	4K70	Res. SMD 0805 1%

		R34,R35,R36,R37,R38,R39, R48,R54,R57,R60,R63,R66		
34	5	R19,R53,R56,R59,R62	22H0	Res. SMD 0805 1%
35	9	R21,R22,R23,R24,R25,R64, R65,R68,R69	1K80	Res. SMD 0805 1%
36	2	R29,R50	22K0	Res. SMD 0805 1%
37	4	R32,R52,R55,R61	100K0	Res. SMD 0805 1%
38	1	R51	0H0	Res. SMD 0805 1%
39	1	R72	330H0	Res. SMD 0805 1%
40	4	SW1,SW2,SW3,SW4	PULCS1	Cs button
41	1	U1	LM324SMD	Quad Op. SMD SO14
42	1	U2	7406SMD	Hex inv OC SMD SO14
43	2	U3,U6	4094SMD	Shift Reg. SMD SO16
44	1	U4	MAX232ESMD	RS232 Driver SMD SO16
45	1	U5	PIC18F452T	TQFP44 SMD Microprocessor
46	1	U10	82B715SO	IIC Bus driver SMD SO8
47	1	X2	Q4M	Quartz SMD HC49SMD

SLLD0448R01V01



	Description: Led Board		Page: 1 of 1
	Designer: Tommasi A.	Size: A4	Rev. 1.0
	Part No.: SLLD0448R01V01		Date: 11/07/2016

	PRODUCT NAME : PJ5000U-K	PART NAME : LED CARD
	DESIGNER : A. TOMMASI	DATE : 05/07/17
	REVISION : 1.0	SCALE : 2:1
ARCHIVING : "RVRUT" SERVER, "RILASCIATI" FOLDER	PROJECT CODE : 245	DOCUMENT CODE : SLLD0448R01V01

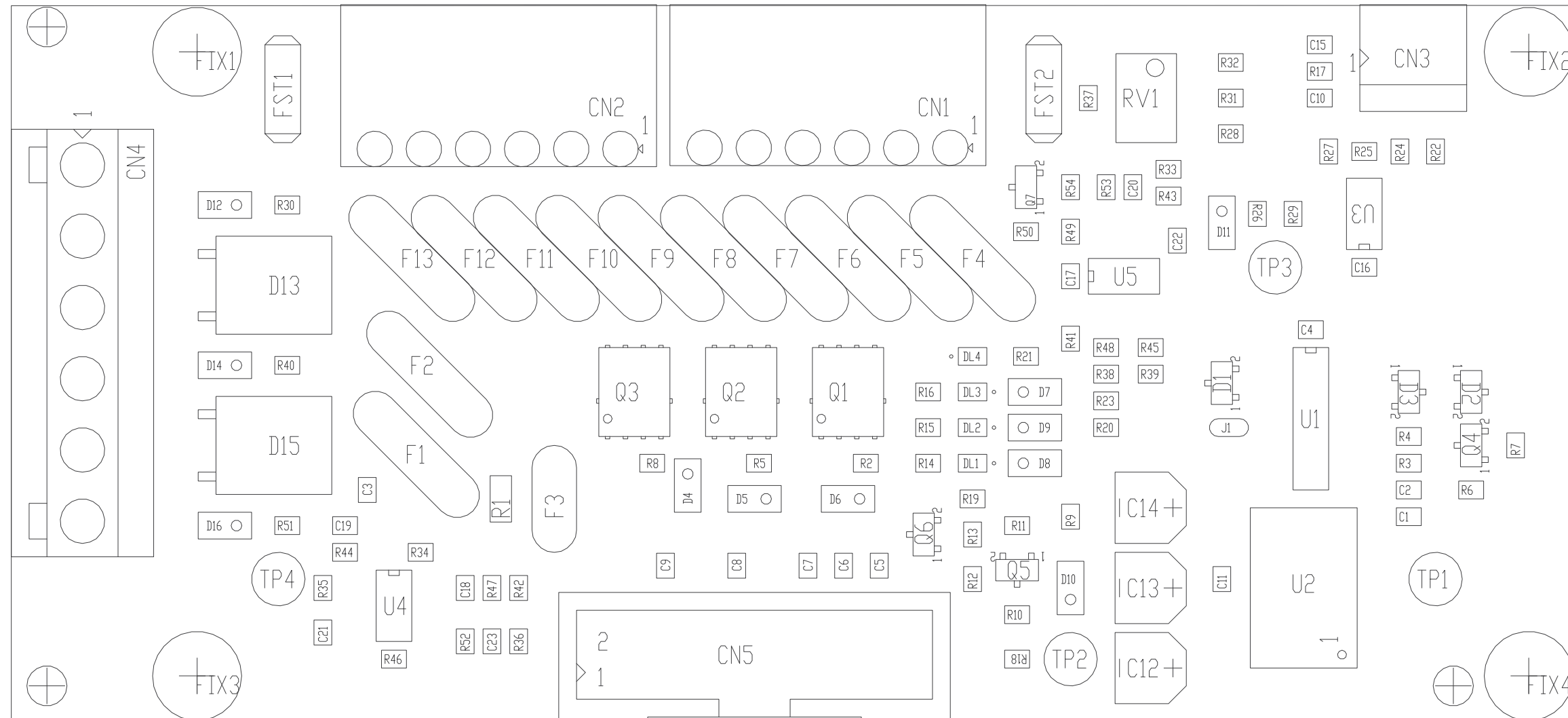


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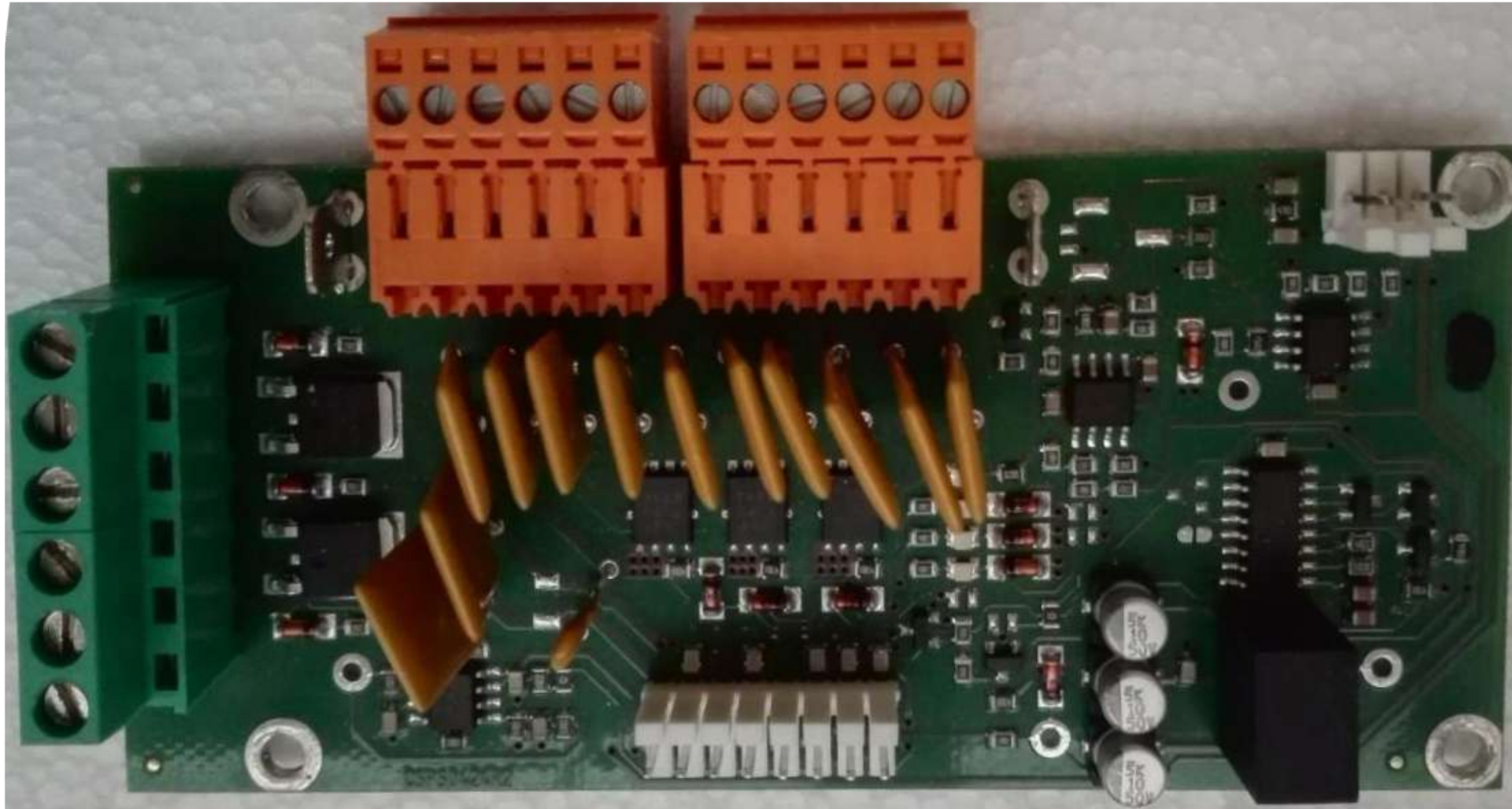
Led Board Revised: Monday, July 11, 2016
SLLD0448R01V01 Revision: 1.0
Tommasi A.

Item	Quantity	Reference	Part	Description
1	1	CN1	CN05PS	Conn. 5 poli Mascon
2	1	CS1	CSLD0448R1	Printed circuit
3	4	C1, C2, C3, C4	1nF	Cond. ceramic p 5mm
4	4	DL1, DL2, DL3, DL4	LED-R3	Red LED dia. 3mm
5	2	FIX1, FIX2	FIX35	3.5mm fixing hole

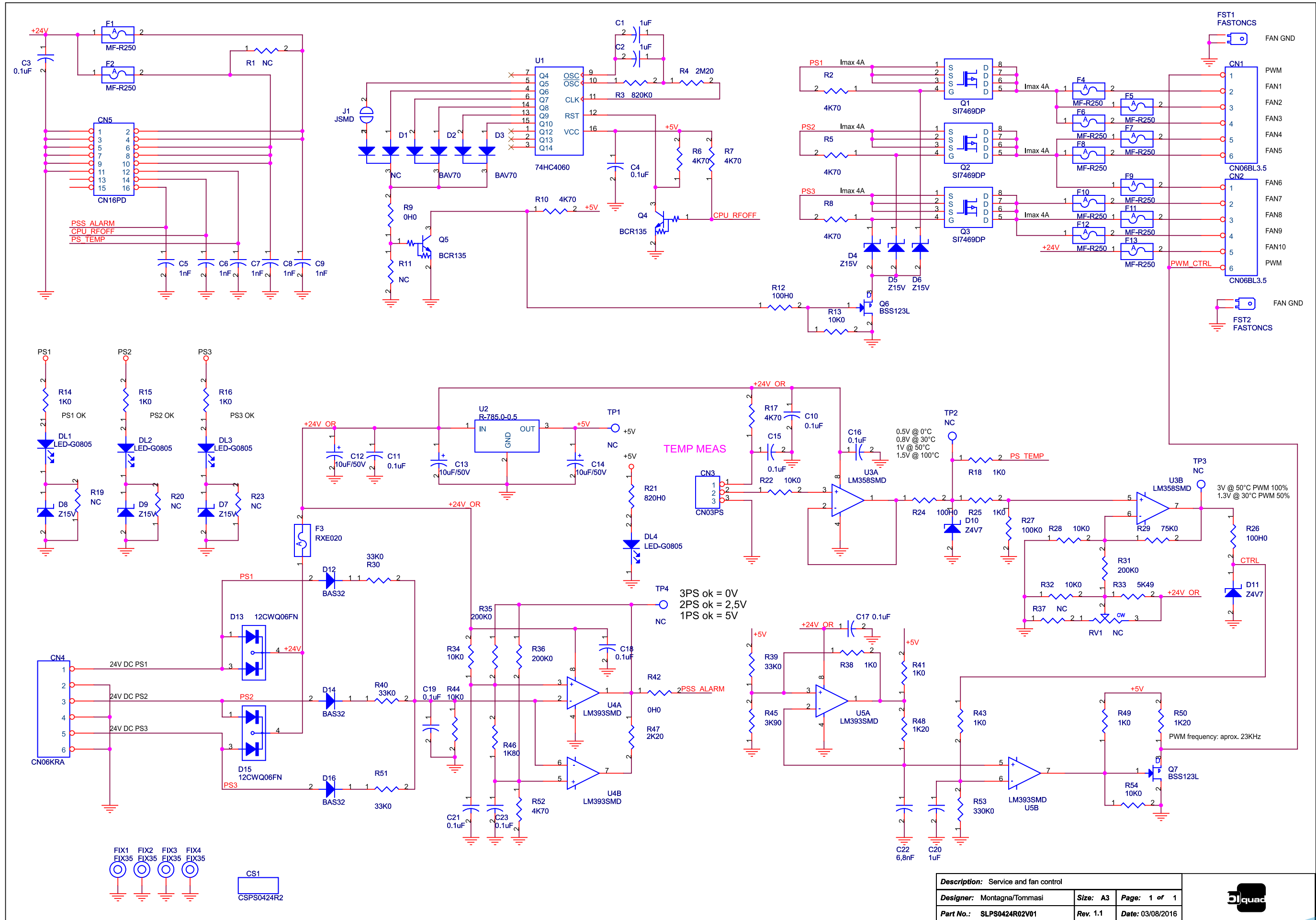
SLPS0424R02V01



SLPS0424R02V01



SLPS0424R02V01





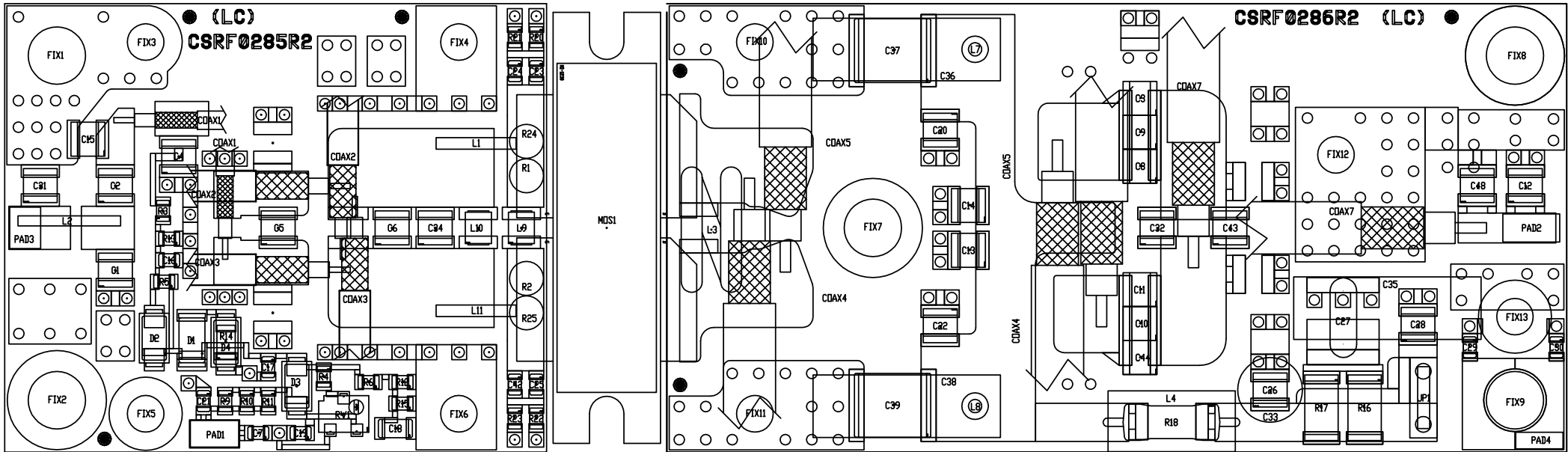
SLPS0424R02V01

Service and fan control Revised: Wednesday, August 03, 2016
SLPS0424R02V01 Revision: 1.1
Montagna/Tommasi

Item	Quantity	Reference	Part	Description	Code
1	2	CN1, CN2	CN06BL3.5	Conn. Weidm BL 6 poli pitch 3.5mm	CNTWDMCS6P3A CNTWDFV6P3
2	1	CN3	CN03PS	Conn. 3 poli Mascon	CNTMASM20PCS
3	1	CN4	CN06KRA	Conn. tipo KRA a 6 poli	MORSKRA3 (X2)
4	1	CN5	CN16PD	Conn.M.C.S.Dritto 16P alette.	CNTMCS16A
5	1	CS1	CSPS0424R2	Printed circuit	CSPS0424R2
6	3	C1, C2, C20	1uF	Cond. SMD 0805	CCC085105KYC
7	11	C3, C4, C10, C11, C15, C16, C17, C18, C19, C21, C23	0.1uF	Cond. SMD 0805	CCC085104KXC
8	5	C5, C6, C7, C8, C9	1nF	Cond. SMD 0805	CCC085102JCC
9	3	C12, C13, C14	10uF/50V	Cond. Elett. SMD d. 5mm	CES106B500
10	1	C22	6,8nF	Cond. SMD 0805	CCC085682KXC
11	4	DL1, DL2, DL3, DL4	LED-G0805	Green LED SMD 0805	LEDV0805
12	1	D1	NC	Double Diode SMD SOT23	
13	2	D2, D3	BAV70	Double Diode SMD SOT23	DISBAV70
14	6	D4, D5, D6, D7, D8, D9	Z15V	MINIMELF SMD Zener Diode	DIZ15VMINI
15	2	D10, D11	Z4V7	MINIMELF SMD Zener Diode	DIZ4V7MINI
16	3	D12, D14, D16	BAS32	MINIMELF SMD Diode	DISBAS32MINI
17	2	D13, D15	12CWQ06FN	Double diode shottky SMD DPAK	DIS12CWQ06FN
18	4	FIX1, FIX2, FIX3, FIX4	FIX35	3.5mm fixing hole	
19	2	FST1, FST2	FASTONCS	Faston da CS p. 5.08	CNTFSTMCS
20	12	F1, F2, F4, F5, F6, F7, F8, F9, F10, F11, F12, F13	MF-R250	Fuse autorip. RXE p5,1mm	FUSAUTRU250A Nota 2
21	1	F3	RXE020	Fuse autorip. RXE p5mm	FUSAUTRX020
22	1	J1	JSMD	SMD solder pad	
23	3	Q1, Q2, Q3	SI7469DP	P-Channel 80-V (D-S) MOSFET	TRNSI7469DP
24	2	Q4, Q5	BCR135	Trans./Res. NPN SOT23	TRNBCCR135
25	2	Q6, Q7	BSS123L	Trans. FET SOT23	TRNBSS123L
26	1	RV1	NC	Trimmer Rg H 3269X SMD	
27	1	R1	NC	Res. SMD 1206	
28	8	R2, R5, R6, R7, R8, R10, R17, R52	4K70	Res. SMD 0805 1%	RCH085F004K7
29	1	R3	820K0	Res. SMD 0805 1%	RCH085F0820K
30	1	R4	2M20	Res. SMD 0805 1%	RCH085F002M2
31	2	R9, R42	0H0	Res. SMD 0805 1%	RCH085F0000H
32	5	R11, R19, R20, R23, R37	NC	Res. SMD 0805 1%	
33	3	R12, R24, R26	100H0	Res. SMD 0805 1%	RCH085F0100H
34	7	R13, R22, R28, R32, R34, R44, R54	10K0	Res. SMD 0805 1%	RCH085F0010K
35	9	R14, R15, R16, R18, R25, R38, R41, R43, R49	1K0	Res. SMD 0805 1%	RCH085F0001K
36	1	R21	820H0	Res. SMD 0805 1%	RCH085F0820H
37	1	R27	100K0	Res. SMD 0805 1%	RCH085F0100K
38	1	R29	75K0	Res. SMD 0805 1%	RCH085F0075K
39	4	R30, R39, R40, R51	33K0	Res. SMD 0805 1%	RCH085F0033K
40	3	R31, R35, R36	200K0	Res. SMD 0805 1%	RCH085F0200K
41	1	R33	5K49	Res. SMD 0805 1%	RCH085F05K49
42	1	R45	3K90	Res. SMD 0805 1%	RCH085F003K9
43	1	R46	1K80	Res. SMD 0805 1%	RCH085F001K8
44	1	R47	2K20	Res. SMD 0805 1%	RCH085F002K2
45	2	R48, R50	1K20	Res. SMD 0805 1%	RCH085F001K2
46	1	R53	330K0	Res. SMD 0805 1%	RCH085F0330K
47	4	TP1, TP2, TP3, TP4	NC	Test point	
48	1	U1	74HC4060	Divider SMD SO16	CID74HC4060
49	1	U2	R-785.0-0.5	Switching SIP3 regulator	CIL785W50-05 Nota 1
50	1	U3	LM358SMD	Dual Op. SMD SO8	CILLM358SMD
51	2	U4, U5	LM393SMD	Dual Comp. SMD SO8	CILLM393SMD

Nota 1	Traco TSR0.5-2450 Recom R-785.0-0.5 Recom R-78E5.0-0.5	Farnell 2451540	RS 817-9400
Nota 2	RUEF250	Farnell 1175848	RS 517-6815
Nota 2	MF-R250	Farnell 2127592	RS 647-8566

SL237RF4001

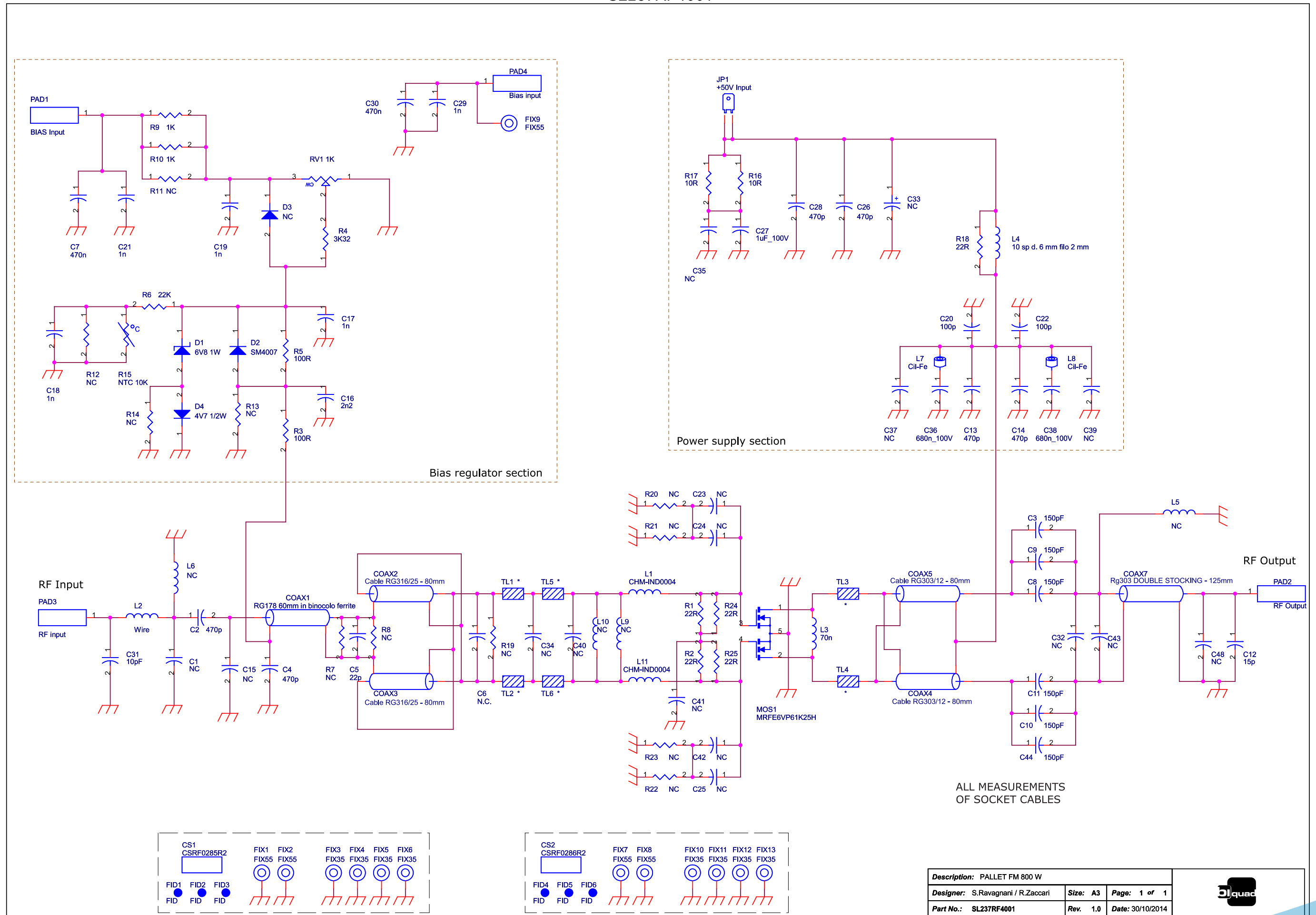


	PROJECT NAME: EXCITER HIGH AFFICIENTY		PART NAME: PALLET FM 800W			
	AUTHOR: ZACCARI / DE DONNO		DATE: 07/11/2014	REVISION: 1.0	SCALE: 2:1	SIZE: A4
ELETRONIC STORAGE: "CARTELLA RILASCIATI" SU "UTSRV"		PROJECT CODE: 237		DESIGN CODE: SL237RF4001		
MATERIAL: <>		TREATMENT: <>		PROFILE: <>		STATE: EXECUTIVE

SL237RF4001



SL237RF4001



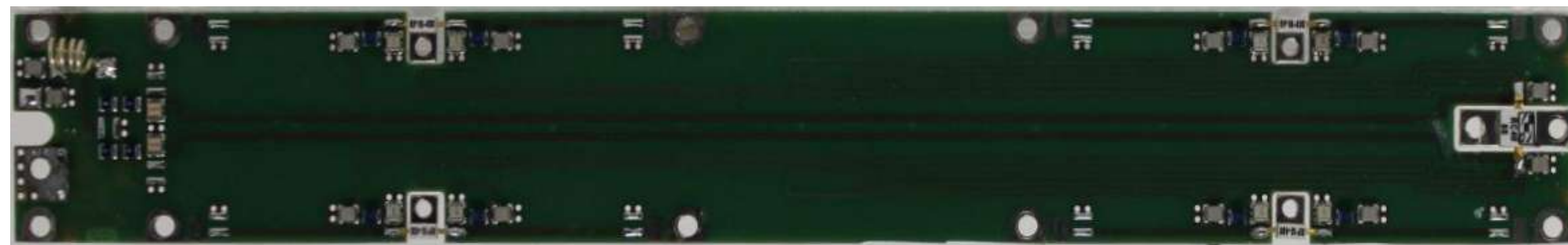
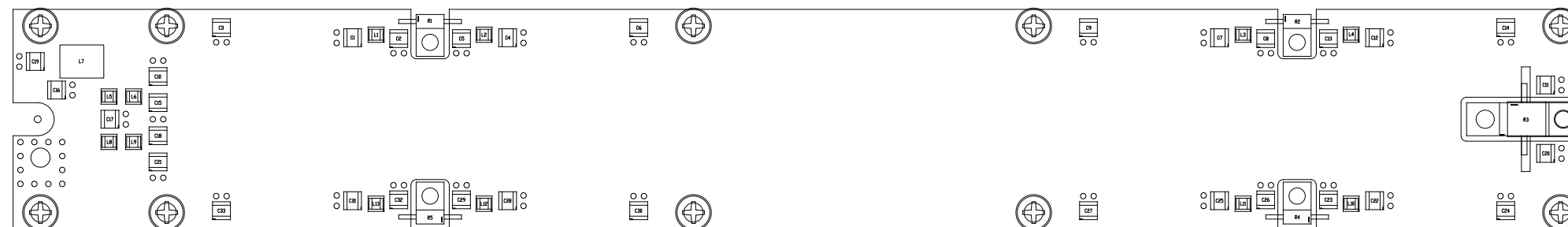



SL237RF4001

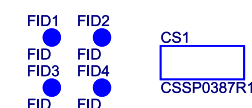
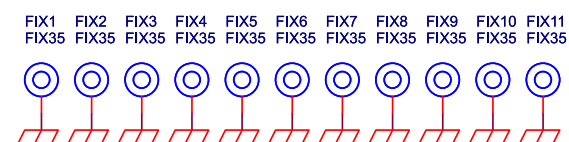
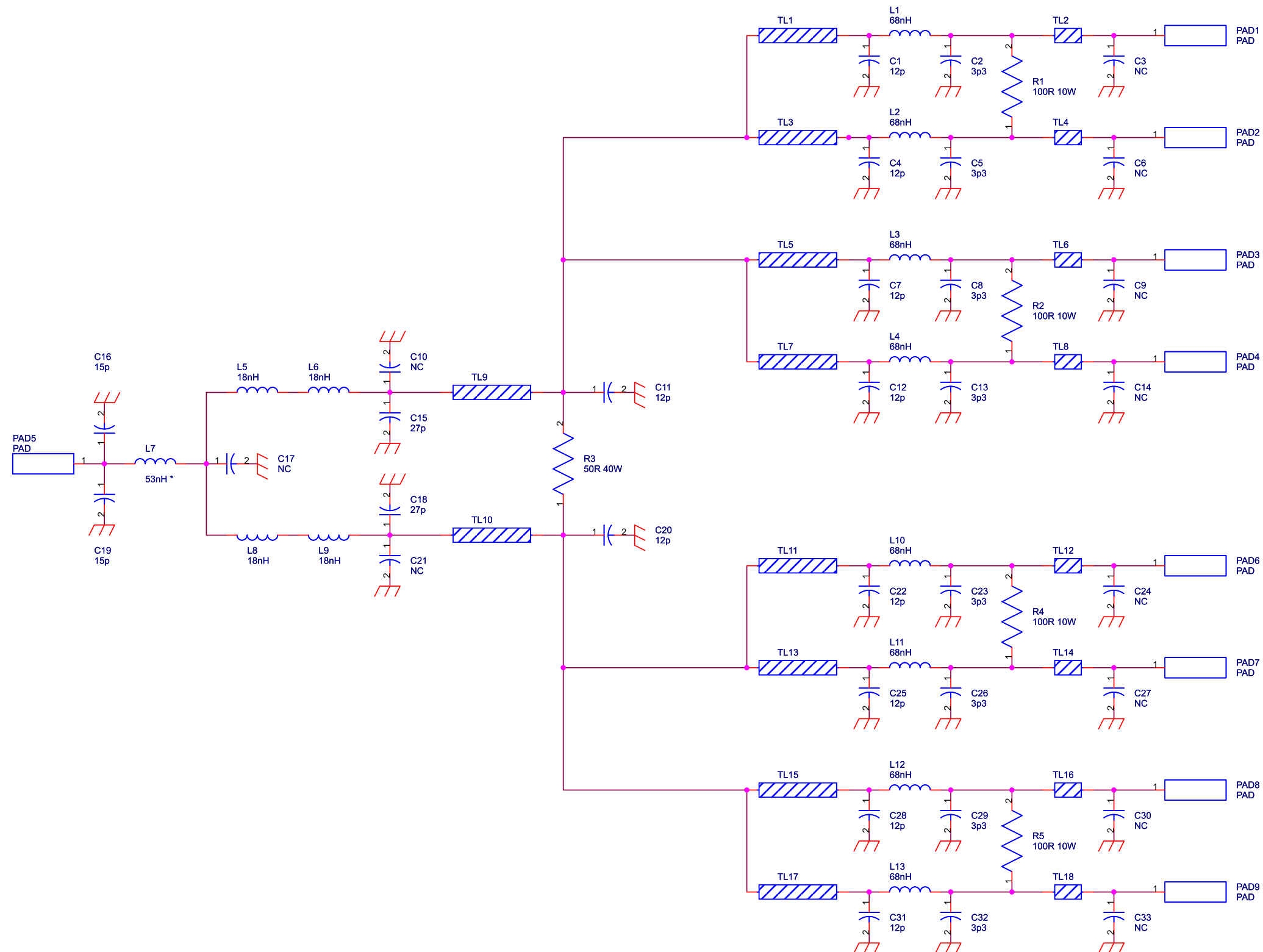
PALLET FM 800 W Revised: 30/10/2014
SL237RF4001 Revision: 1.0
S.Ravagnani / R.Zaccari

Item	Quantity	Reference	Part	(description)
1	1	COAX1	Rg178 60mm in binoculars ferrite	Cable RG178 60mm half/half in binoculars ferrite (73mm tot.)
2	2	COAX2, COAX3	Cable RG316/25 - 80mm	Cable RG316/25 80mm half/half (91mm tot.)
3	2	COAX5, COAX4	Cable RG303/12 - 80mm	Cable RG303/12 80mm half/half (98mm tot.)
4	1	COAX7	Rg142 DOUBLE HALF - 125mm	Cable RG142 125mm half/half (147mm tot.) Vedi Info COAX7.pdf
5	1	CS1	CSRF0285R2	Printed circuit
6	1	CS2	CSRF0286R2	Printed circuit
7	3	C1, C23, C25	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	NC	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	6	C15, C32, C34, C40, C43, C48	NC	Cond. SMD 1212 HQ
17	1	C16	2n2	Cond. SMD 0805 COG
18	3	C17, C19, C21	1n	Cond. SMD 0805
19	1	C18	1n	Cond. SMD 1206
20	2	C22, C20	100p	Cond. SMD 1212 HQ
21	2	C42, C24	NC	Cond. SMD 0805
22	1	C27	1uF 100V	Cond. multilayer p 5mm
23	1	C31	10pF	Cond. SMD 1212 HQ
24	1	C29	1n	Cond. SMD 0805
25	3	C36, C38	680n 100V	Cond. Polyester p 10mm
26	2	C37, C39	NC	Cond. Polyester p 15mm
27	1	C41	NC	Cond. Multilayer p 5mm
28	1	D1	6V8 1W	MELF SMD Zener Diode
29	1	D2	SM4007	Diode SMD cont. SMA
30	1	D3	NC	Diode 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	5.5mm fixing hole
34	8	FIX3, FIX4, FIX5, FIX6, FIX10, FIX11, FIX12, FIX13	FIX35	3.5mm fixing hole
35	1	JP1	+50V Input	Faston da CS p. 5,08
36	2	L11, L1	CHM-IND0004	Printed link on copper
37	1	L2	Wire	Wire R. Arg. 1mm lung. 10mm
38	1	L3	70n	1.5 Spire Filo R. Arg. 2mm Wrapped on 8mm Lung. 8 5mm high from PCB
39	1	L4	10 sp d. 6 mm filo 2 mm	10 spire thread R. Small. 2mm wrapped su 6mm includente R18 all'interno
40	2	L5, L9	NC	
41	1	L6	NC	
42	2	L7, L8	Ci-Fe	Ferrite cylinder
43	1	L10	NC	Ind. SMD 1008
44	1	MOS1	MRFE6VP61K25H	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	4	R1, R2, R24, R25	22R	Res. 2W
50	3	R7, R8, R19	NC	Res. 2W
51	2	R3, R5	100R	Res. SMD 0805 1%
52	1	R4	3K32	Res. SMD 0805 1%
53	1	R6	22K	Res. SMD 0805 1%
54	2	R10, R9	1K	Res. SMD 0805 1%
55	3	R11, R12, R13	NC	Res. SMD 0805 1%
56	1	R14	NC	Res. SMD 1206 1%
57	1	R15	NTC 10K	Res. NTC SMD 0805
58	2	R17, R16	10R	Res. SMD 2512 5%
59	1	R18	22R	Res. 2W
60	4	R20, R21, R22, R23	NC	Res. SMD 0805 1%
61	6	TL1, TL2, TL3, TL4, TL5, TL6	*	Linea strip CS
62	1		Ferrite balun	Ferrite balun

SLSP0387R01V01



	PRODUCT NAME : PJ5000U-K	PART NAME : 8 WAY SPLITTER FM				
	DESIGNER : M. UCELLI; E. ARIATTI	DATE 21/01/14	REVIS. : 1.0	SCALE 1:1	SIZE A3	PAGE :1 DI 1
ARCHIVING : "RVUT" SERVER, "RILASCIATI" FOLDER			PROJECT CODE : 245		DOCUMENT CODE : SLSP0387R01V01	



Description: 8 Way Splitter FM		
Designer: M. Ucelli; E. Ariatti	Size: A3	Page: 1 of 1
Part No.: SLSP0387R01V01	Rev. 1.0	Date: 21/01/2014



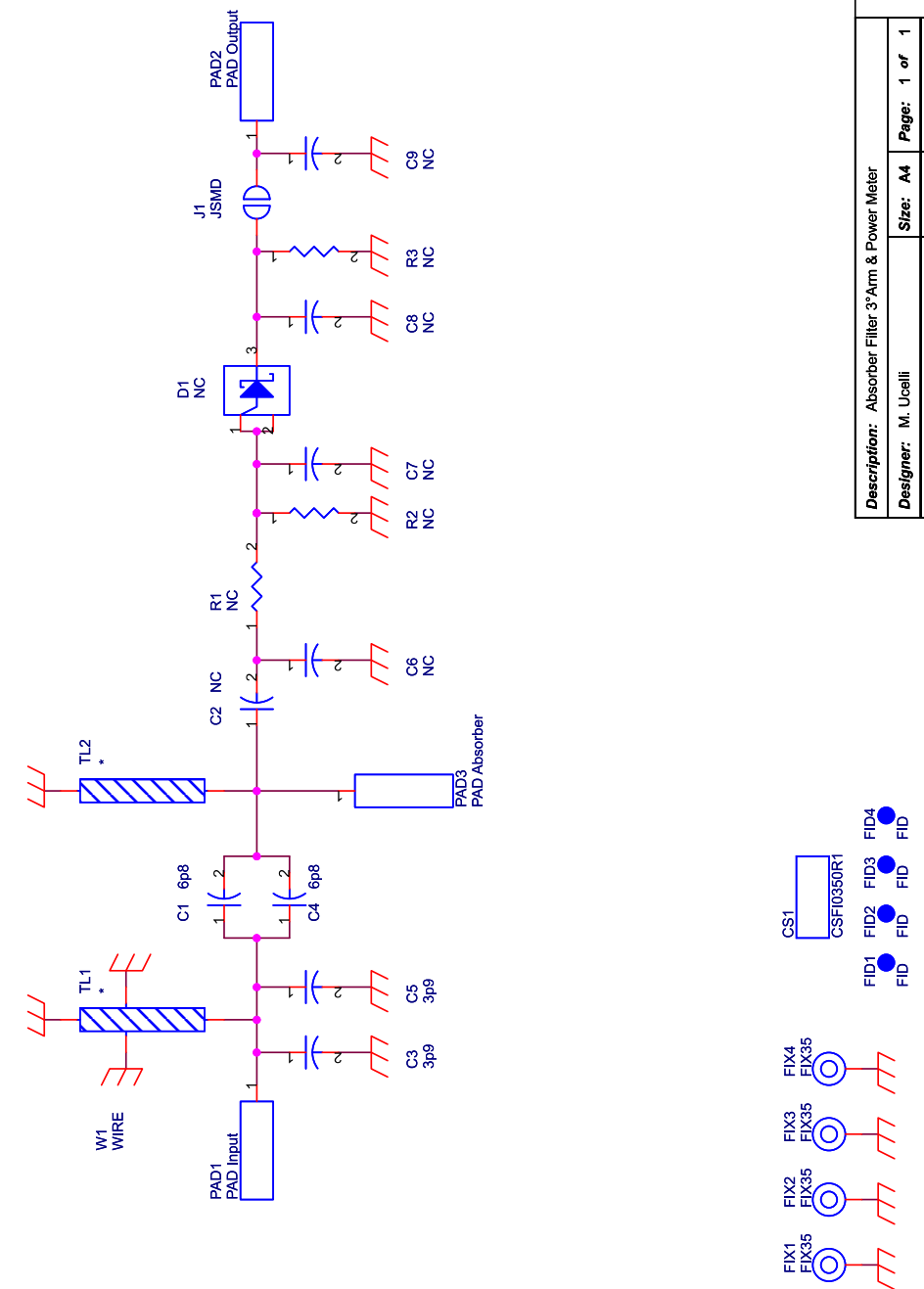
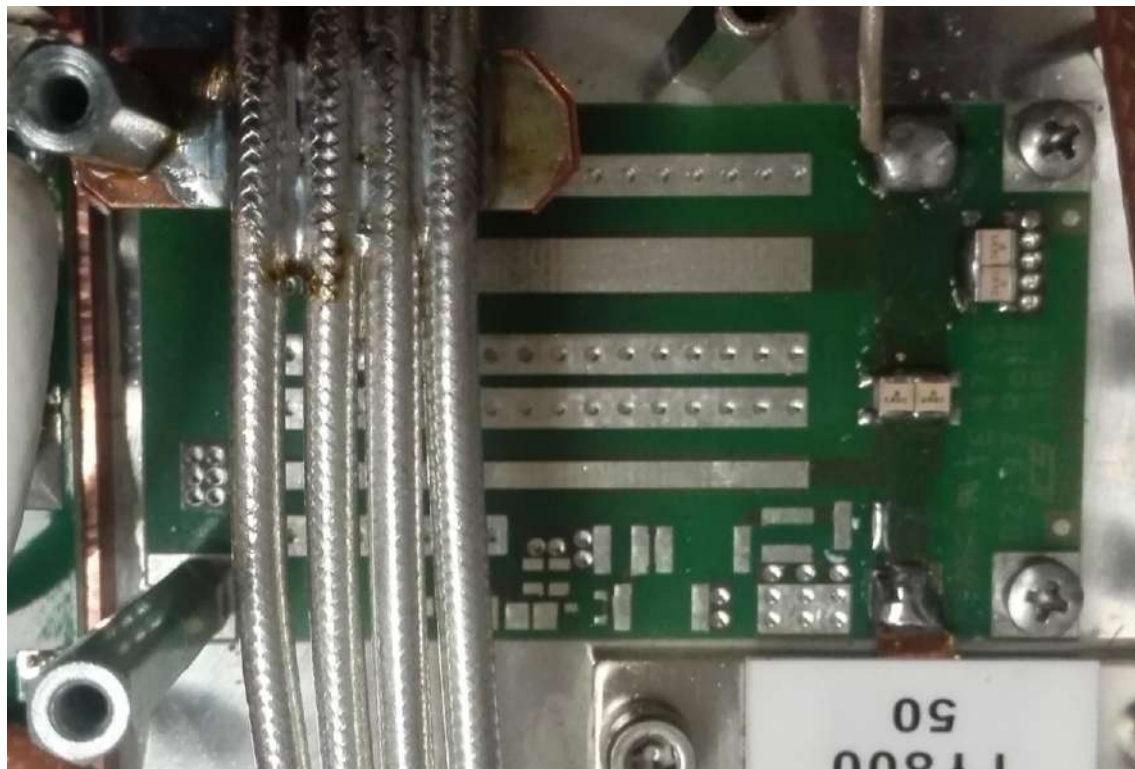
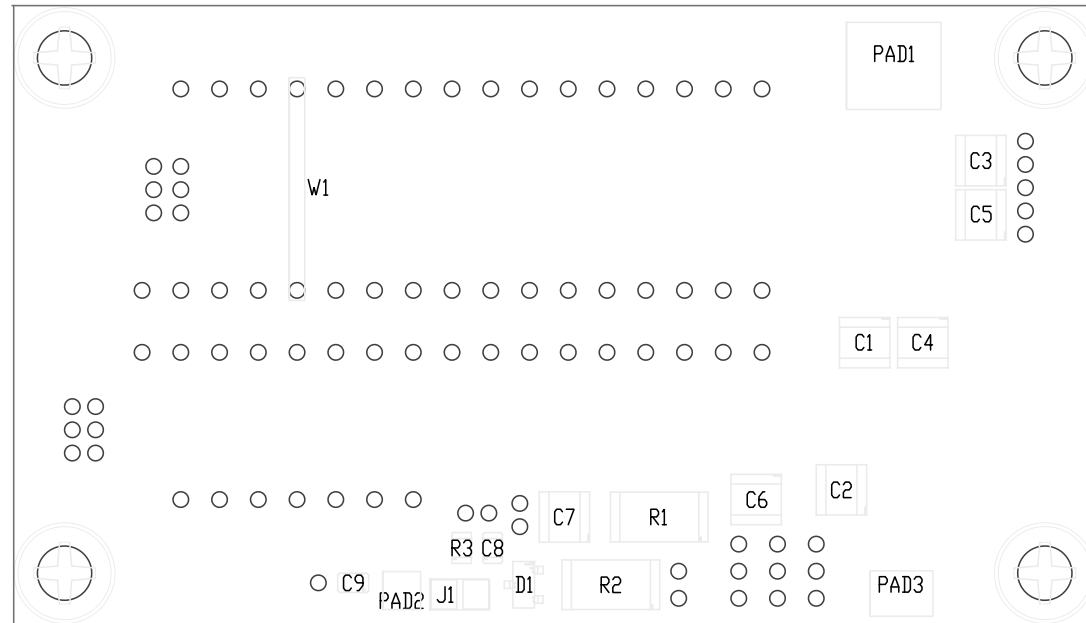


SLSP0387R01V01

8 Ways Splitter FM
SLSP0387R01V01
Revision: 1.0
21/01/2014
46
Mauro Ucelli / E. Ariatti

Item	Quantity	Reference	Part	Description	Code1
1	1	CS1	CSSP0387R1	Printed circuit	CSSP0387R1
2	10	C1,C4,C7,C11,C12,C20,C22,C25,C28,C31	12p	Cond. SMD 1212 HQ	CHQ120JA501
3	8	C2,C5,C8,C13,C23,C26,C29,C32	3p3	Cond. SMD 1212 HQ	CHQ3P3CA501
4	11	C3,C6,C9,C10,C14,C17,C21,C24,C27,C30,C33	NC	Cond. SMD 1212 HQ	NC
5	2	C15,C18	27p	Cond. SMD 1212 HQ	CHQ270JA501
6	2	C16,C19	15p	Cond. SMD 1212 HQ	CHQ150JA501
7	4	FID1,FID2,FID3,FID4	FID	Fiducial CS	
8	11	FIX1,FIX2,FIX3,FIX4,FIX5,FIX6,FIX7,FIX8,FIX9,FIX10,FIX11	FIX35	3.5mm fixing hole	
9	8	L1,L2,L3,L4,L10,L11,L12,L13	68nH	Inductance SMD HQ 2520 (1008)	IMP68NS108HQ
10	4	L5,L6,L8,L9	18nH	Inductance SMD HQ 2520 (1008)	IMP18NS108HQ
11	1	L7	53nH *	4 copper wire turns arg. Φ 1mm, wrapped su Φ 4mm; Solenoid length 5.5mm	BOB01020157A
12	9	PAD1,PAD2,PAD3,PAD4,PAD5,PAD6,PAD7,PAD8,PAD9	PAD	SMD welding pad	
13	4	R1,R2,R4,R5	100R 10W	Resistance KDI 1 fix, 100ohm 10W	RDR010J0100H
14	1	R3	50R 40W	Resistance KDI 2 fix, 50 ohm 40W	RDR040J0050H
15	10	TL1,TL3,TL5,TL7,TL9,TL10,TL11,TL13,TL15,TL17	TLINE_L	Linea strip CS	
16	8	TL2,TL4,TL6,TL8,TL12,	TLINE_S	Linea strip CS	

SLFI0350R01V01



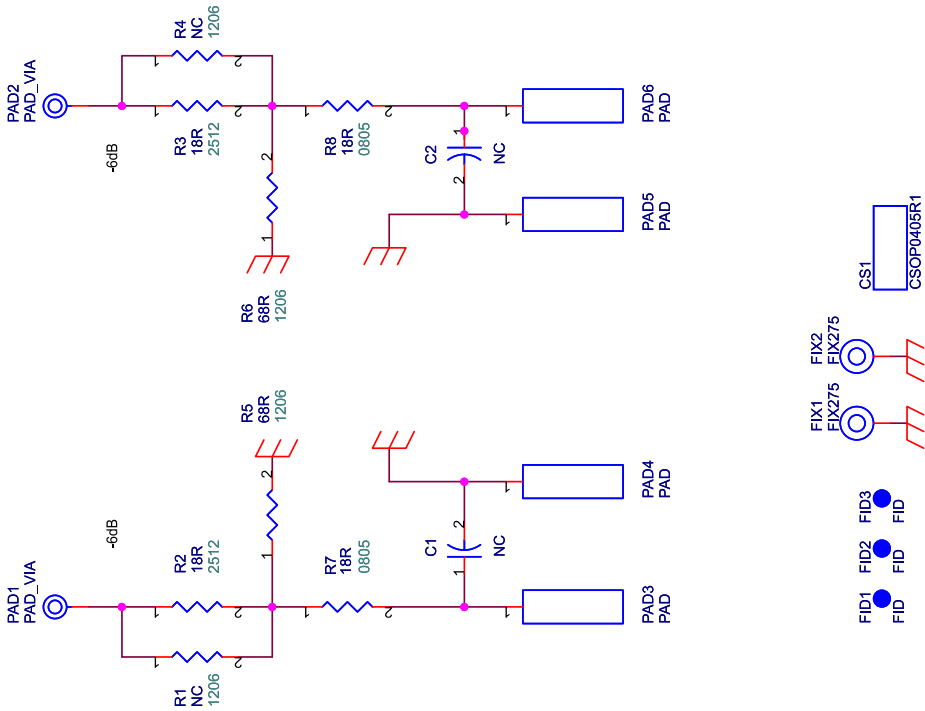
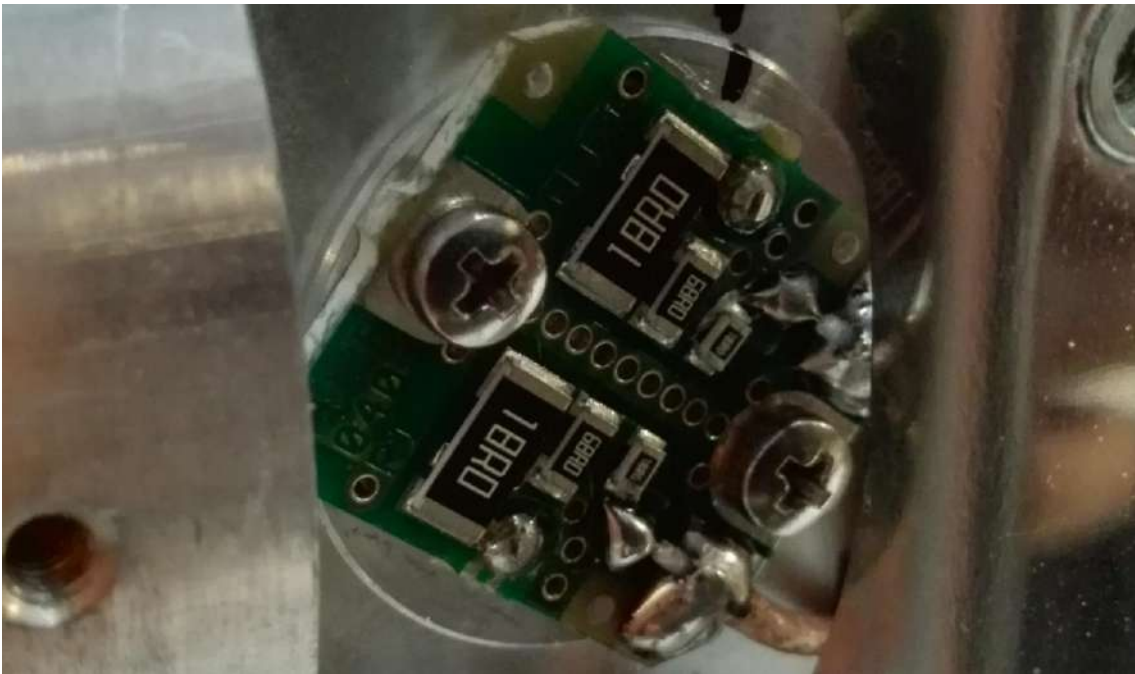
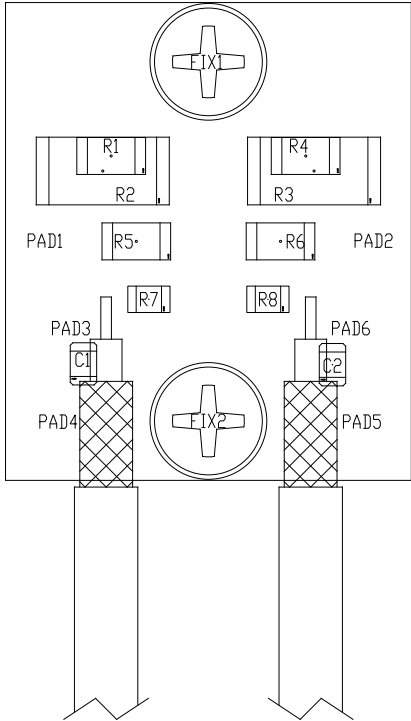
Description: Absorber Filler 3"Arm & Power Meter			
Designer: M. Ucelli	Size: A4	Page: 1 of 1	
Part No.: SLF0350R0V01	Rev. 1.0	Date: 10/12/2014	

SLFI0350R01V01

Absorber Filter 3°Arm & Power Meter
SLFI0350R01V01
Revision: 1.0
Mauro Ucelli
12/10/14

Item	Quantity	Reference	Part	Description	Code1
1	1	CS1	CSFI0350R1	Printed circuit	CSFI0350R1
2	2	C1,C4	6p8	Cond. SMD 1212 HQ	CHQ6P8JA501
3	3	C2,C6,C7	NC	Cond. SMD 1212 HQ	
4	2	C3,C5	3p9	Cond. SMD 1212 HQ	CHQ3P9CA501
5	2	C8,C9	NC	Cond. SMD 0805 COG	
6	1	D1	NC		
7	4	FID1,FID2,FID3,FID4	FID	Fiducial CS	
8	4	FIX1,FIX2,FIX3,FIX4	FIX35	3.5mm fixing hole	
9	1	J1	JSMD	SMD weld pad	
10	1	PAD1	PAD Input	SMD weld pad	
11	1	PAD2	PAD Output	SMD weld pad	
12	1	PAD3	PAD Absorber	SMD weld pad	
13	2	R1,R2	NC	Res. SMD 2512 1%	
14	1	R3	NC	Res. SMD 0805	
15	2	TL1,TL2	*	Linea strip CS	
16	1	W1	WIRE	Welding wire diam. 1 mm	

SLOP0405R01V01



Description: FWD-RFL	Page: 1 of 1
Designer: UcelliMontagna	Size: A4
Part No.: SLOP0405R01V01	Rev: 1.1
Date: 05/07/2017	



PROJECT NAME: AOVCA2K0LU	PART NAME: SEM.SHEDA TESTINA FWD-RFL AMP TV
AUTHOR: ZACCARI / DE DONNO	DATE: 21/08/2014
REVISION: 1.0	SCALE: 3:1
SIZE: A4	PAGE: 1 DI 1
ELETRONIC STORAGE: "CARTELLA RILASCIATI" SU "RVRUT"	PROJECT CODE: 190
DESIGN CODE: SLOP0405R01V01	
MATERIAL: <>	TREATMENT: <>
PROFILE: <>	STATE: EXECUTIVE

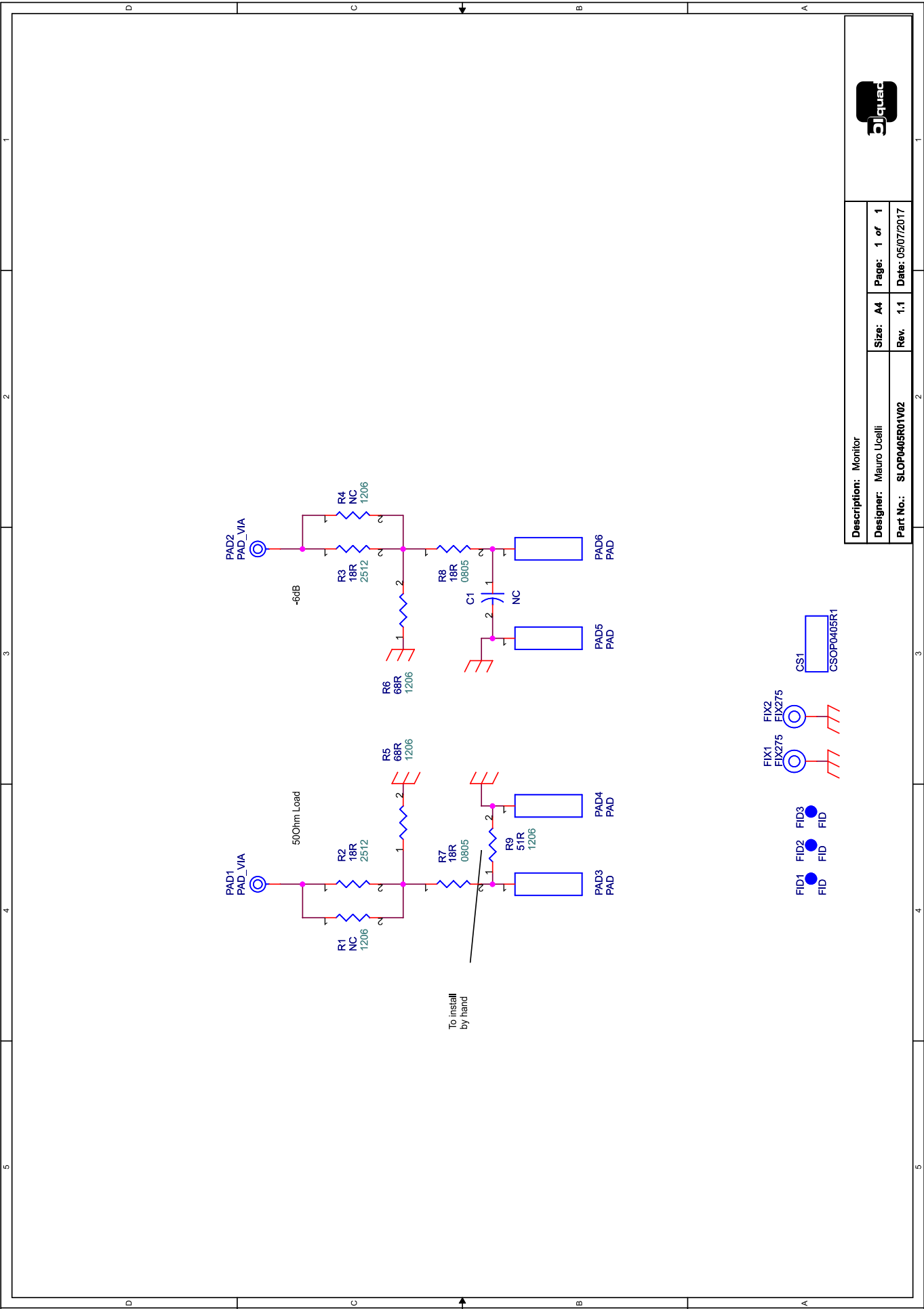
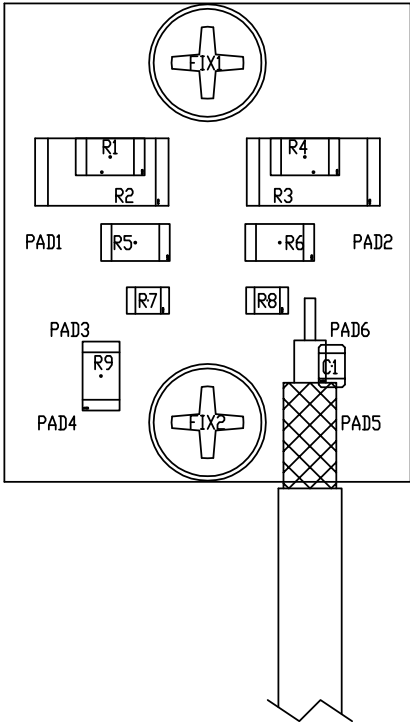
SLOP0405R01V01

FWD-RFL Revised: 05/07/2017
SLOP0405R01V01 Revision: 1.1
Ucelli/Montagna

Item	Quantity	Reference	Part	Description
	1	1 CS1	CSOP0405R1	Printed circuit
	2	2C1,C2	NC	Cond. SMD 0805
	3	3FID1,FID2,FID3	FID	Fiducial CS
	4	2FIX1,FIX2	FIX275	3mm fixing hole
	5	2PAD1,PAD2	PAD_VIA	Pad Via
	6	4PAD3,PAD4,PAD5,PAD6	PAD	Pad SMD weld
	7	2R1,R4	NC	Res. SMD 1206
	8	2R2,R3	18R	Res. SMD 2512 1%
	9	2R5,R6	68R	Res. SMD 1206
	10	2R7,R8	18R	Res. SMD 0805



SLOP0405R01V02



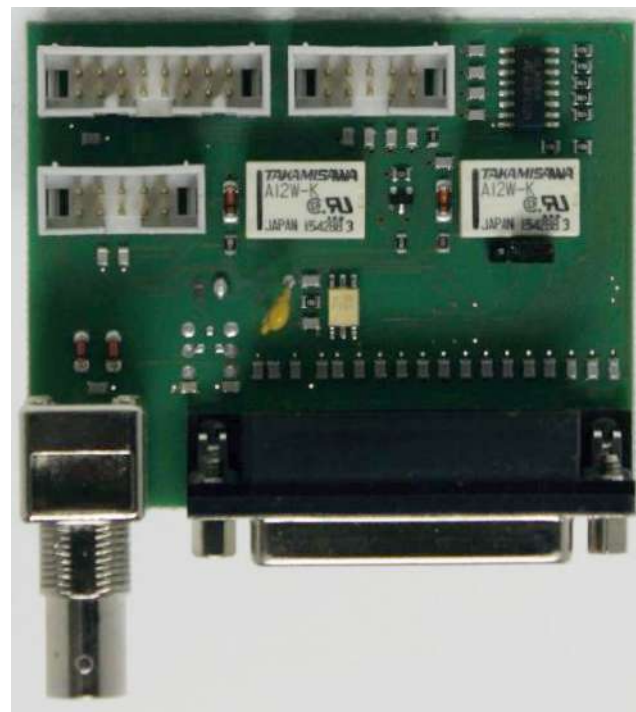
	PROJECT NAME: ATVCA2K0LU	PART NAME: SEM.SHEDA TESTINA MONITOR AMP TV			
	AUTHOR: E. MONTAGNA	DATE: 21/08/2014	REVISION: 1.0	SCALE: 3:1	SIZE: A4
ELETTRONIC STORAGE: "CARTELLA RILASCIATI" SU "RVRUT"		PROJECT CODE: 190	DESIGN CODE: SLOP0405R01V02		
MATERIAL: <>	TREATMENT: <>	PROFILE: <>	STATE: EXECUTIVE		




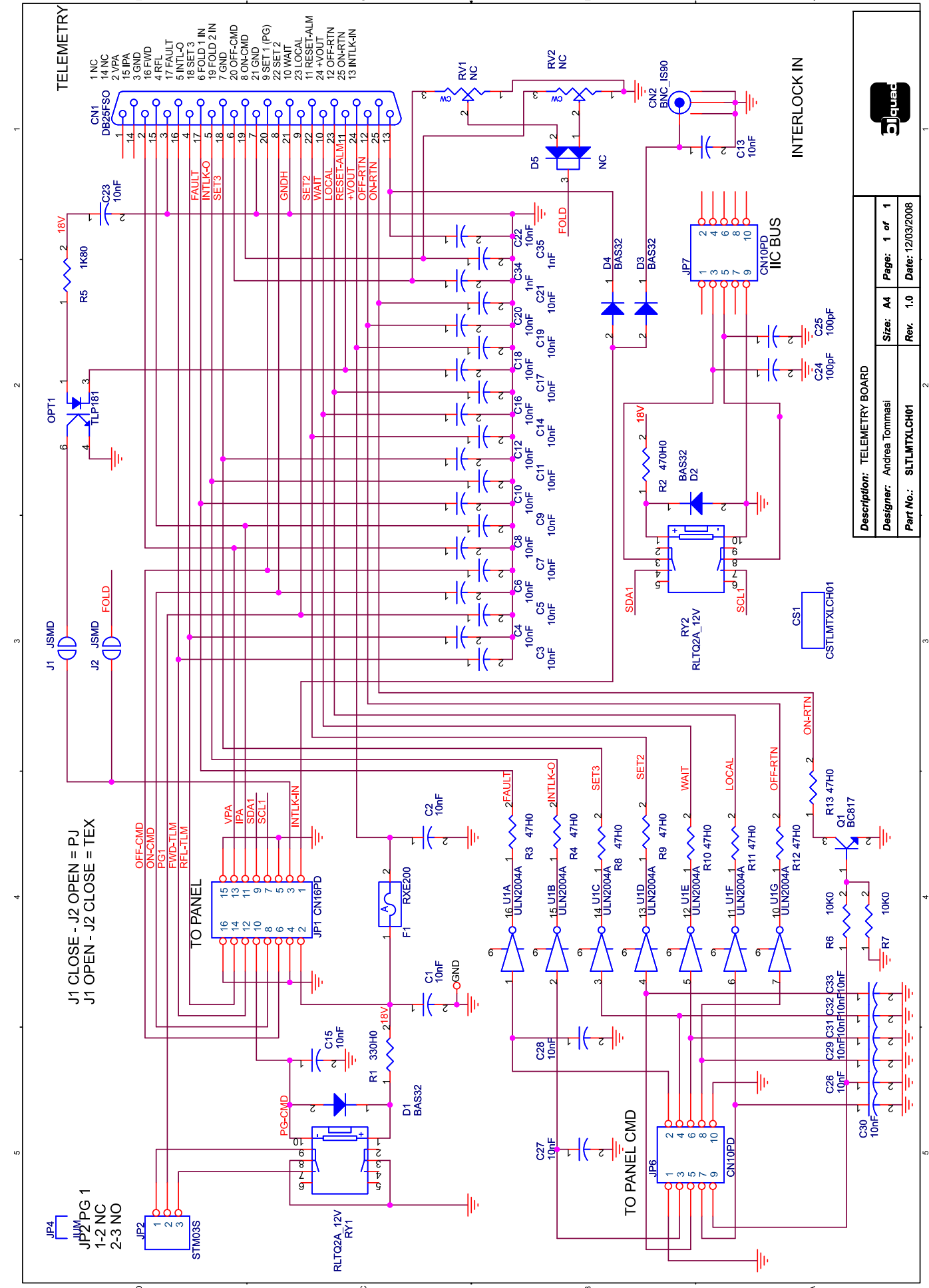
SLOP0405R01V02

Monitor Revised: 05/07/2017
SLOP0405R01V02 Revision: 1.1
Mauro Ucelli

Item	Quantity	Reference	Part	Description
1	1	CS1	CSOP0405R1	Rinted circuit
2	1	C1	NC	Cond. SMD 0805
3	3	FID1,FID2,FID3	FID	Fiducial CS
4	2	FIX1,FIX2	FIX275	3mm fixing hole
5	2	PAD1,PAD2	PAD_VIA	Pad Via
6	4	PAD3,PAD4,PAD5,PAD6	PAD	Pad SMD weld
7	2	R1,R4	NC	Res. SMD 1206
8	2	R2,R3	18R	Res. SMD 2512 1%
9	2	R5,R6	68R	Res. SMD 1206
10	2	R7,R8	18R	Res. SMD 0805
11	1	R9	51R	Res. SMD 1206



	PRODUCT NAME : TEX-LCD / PTRL-LCD / RXRL-LCD		PART NAME : TELEMETRY BOARD				
	DESIGNER : A. TOMMASI		DATE : 12/03/2008	REVISION : 1.0	SCALE : 2:1	SIZE : A4	PAGE : 1 DI 1
ARCHIVING : 'RVRUT' SERVER, 'RILASCIATI' FOLDER			PROJECT CODE : 123		DOCUMENT CODE : PSL300		



SLTLMTXLCH01

TELEMETRY BOARD Revised: 12/03/2008
SLTLMTXLCH01 Revision: 1.0
TEX-LCD/RXRL-LCD/PTRL-LCD
RVR123
Andrea Tommasi

Item	Quantity	Reference	Part	Description
1	1	CN1	DB25FSO	Connector DB25 femm. cs 90°
2	1	CN2	BNC_JS90	Connector BNC metallic 90°
3	1	CS1	CSTLMTXLCH01	Printed circuit
4	31	C1,C2,C3,C4,C5,C6,C7,C8, C9,C10,C11,C12,C13,C14, C15,C16,C17,C18,C19,C20, C21,C22,C23,C26,C27,C28, C29,C30,C31,C32,C33	10nF	Cond. SMD 0805
5	2	C24,C25	100pF	Cond. SMD 0805
6	2	C34,C35	1nF	Cond. SMD 0805
7	4	D1,D2,D3,D4	BAS32	MINIMELF SMD Diode
8	1	D5	NC	Double Diode SMD SOT23
9	1	F1	RXE200	Fuse autorip. 7mm
10	1	JP1	CN16PD	Connector 16 poli Flat cs
11	1	JP2	STM03S	3 pin male strip
12	1	JP4	JUM	Jumper
13	2	JP6,JP7	CN10PD	Connector 10 poli Flat cs
14	2	J1,J2	JSMD	SMD solder pad
15	1	OPT1	TLP181	Optoisolatore SMD SO6
16	1	Q1	BC817	Trans. NPN SOT23
17	2	RV1,RV2	NC	Trimmer Rg H 3296X
18	2	RY1,RY2	RLTQ2A_12V	Rele' TQ2
19	1	R1	330H0	Res. SMD 0805 1%
20	1	R2	470H0	Res. SMD 0805 1%
21	8	R3,R4,R8,R9,R10,R11,R12, R13	47H0	Res. SMD 0805 1%
22	1	R5	1K80	Res. SMD 0805 1%
23	2	R6,R7	10K0	Res. SMD 0805 1%
24	1	U1	ULN2004A	Seven Inv. Buffer OC



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