



# PJ2500LCD

## TECHNICAL ANNEX VOLUME 2



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Member of CISQ Federation



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Manufactured by R.V.R. ELETTRONICA 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 PJ2500LCD. L'appendice è composta dalle seguenti sezioni:

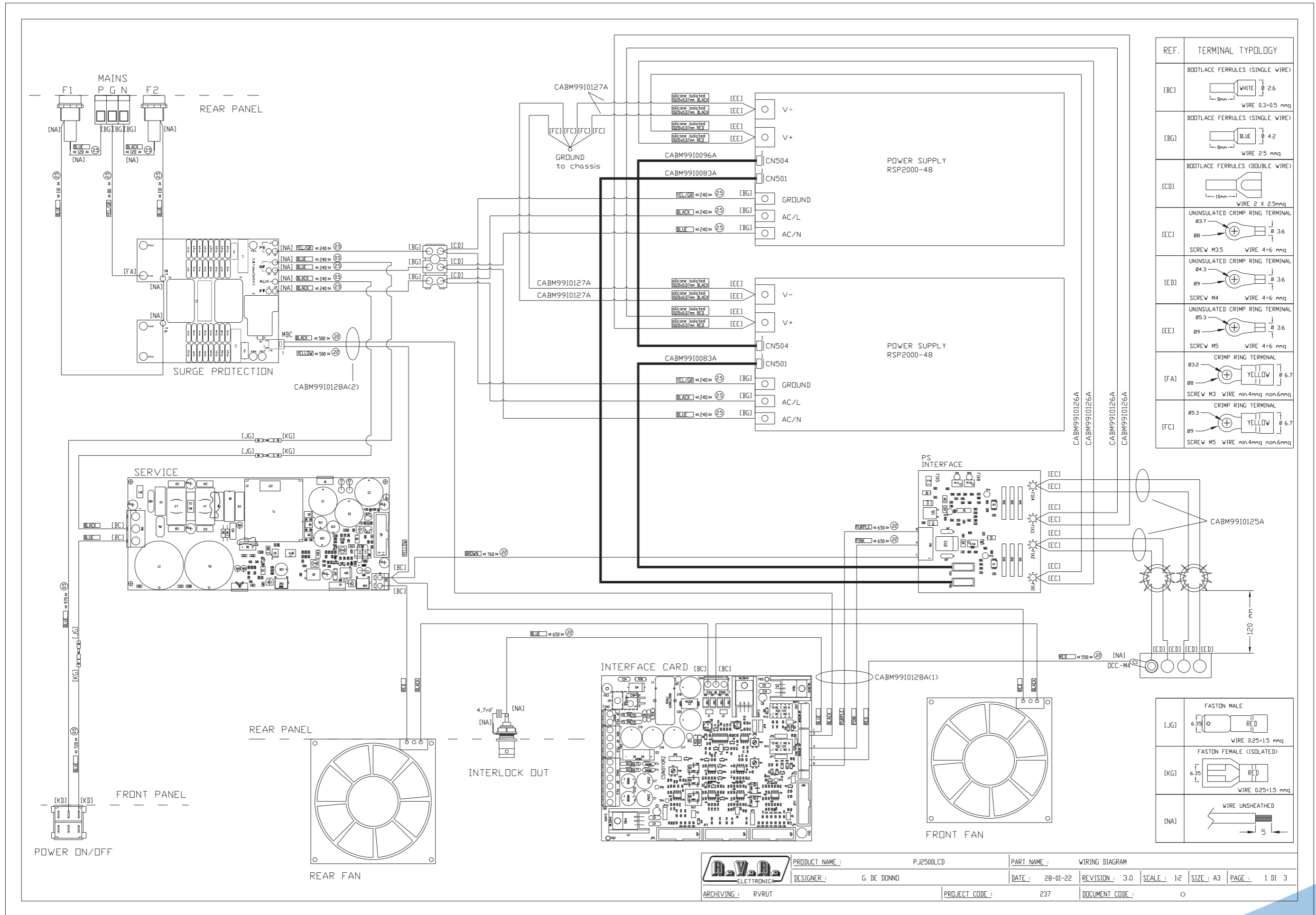
*This part of the manual contains the technical details about the different Cards of the PJ2500LCD. This appendix is composed of the following sections:*

Description	RVR Code	Vers.	Page
Wiring Diagram	PJ2500LCD Version	3.0	1
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Auxiliary Power Supply	PSL2405	3.0	23
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### Document History

Date	Version	Reason	Code	Editor
29/10/2012	1.0	First Release	/	J.H. Berti
10/02/2022	1.1	Major Release	/	J.H. Berti

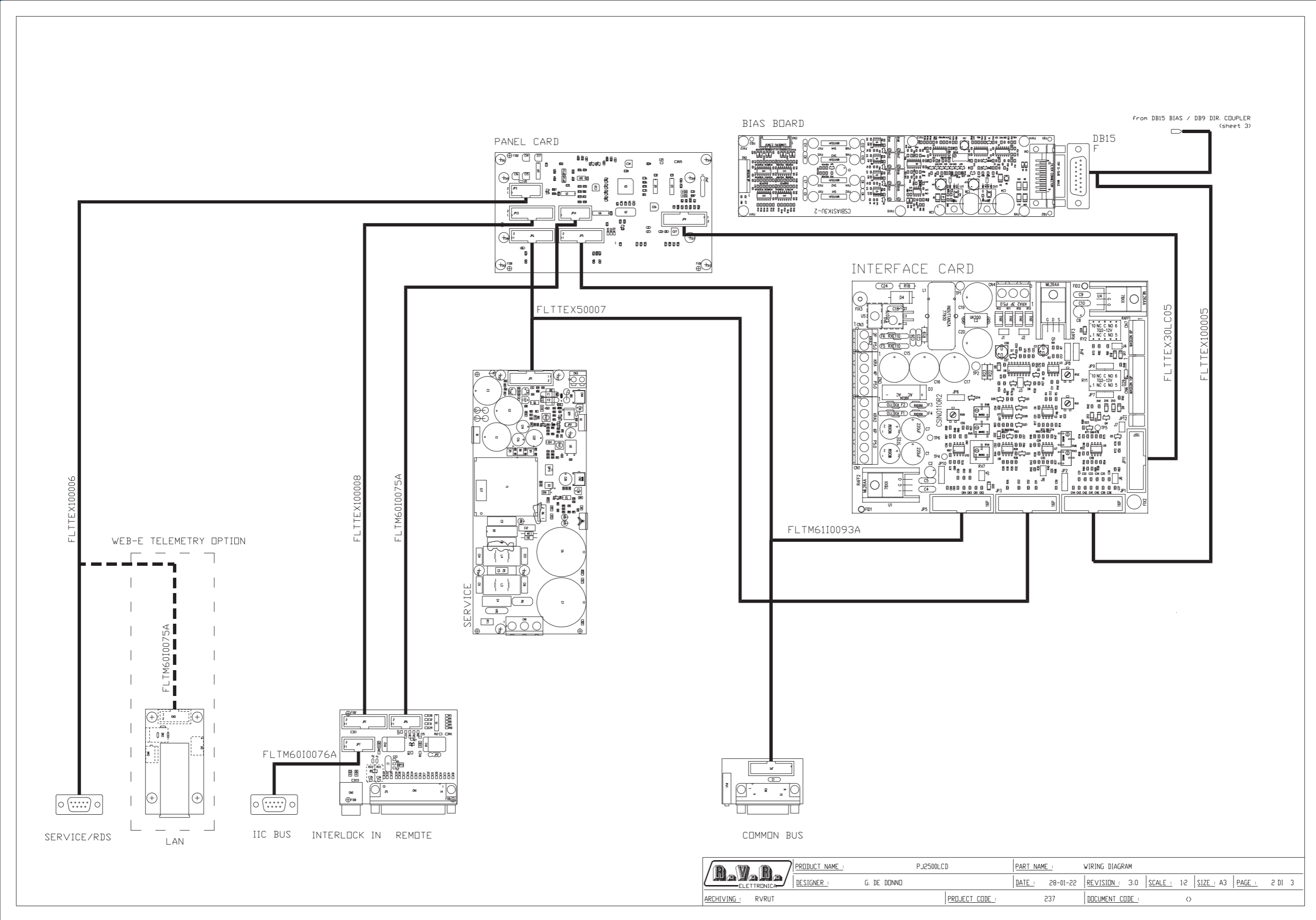
PJ2500LCD Version



REF.	TERMINAL TYPOLOGY
[BC]	BOOTLACE FERRULES (SINGLE WIRE) WIRE 0.3+0.5 mmq WHITE Ø 2.6 8mm
[BG]	BOOTLACE FERRULES (SINGLE WIRE) WIRE 2.5 mmq BLUE Ø 4.2 8mm
[CD]	BOOTLACE FERRULES (DOUBLE WIRE) WIRE 2 X 2.5mmq 10mm
[EC]	UNINSULATED CRIMP RING TERMINAL Ø 3.7 Ø 8 WIRE 4+6 mmq Ø 3.6
[ED]	UNINSULATED CRIMP RING TERMINAL Ø 4.3 Ø 9 WIRE 4+6 mmq Ø 3.6
[EE]	UNINSULATED CRIMP RING TERMINAL Ø 5.3 Ø 9 WIRE 4+6 mmq Ø 3.6
[FA]	CRIMP RING TERMINAL Ø 3.2 Ø 8 WIRE min.4mmq non.6mmq YELLOW Ø 6.7
[FC]	CRIMP RING TERMINAL Ø 5.3 Ø 9 WIRE min.4mmq non.6mmq YELLOW Ø 6.7

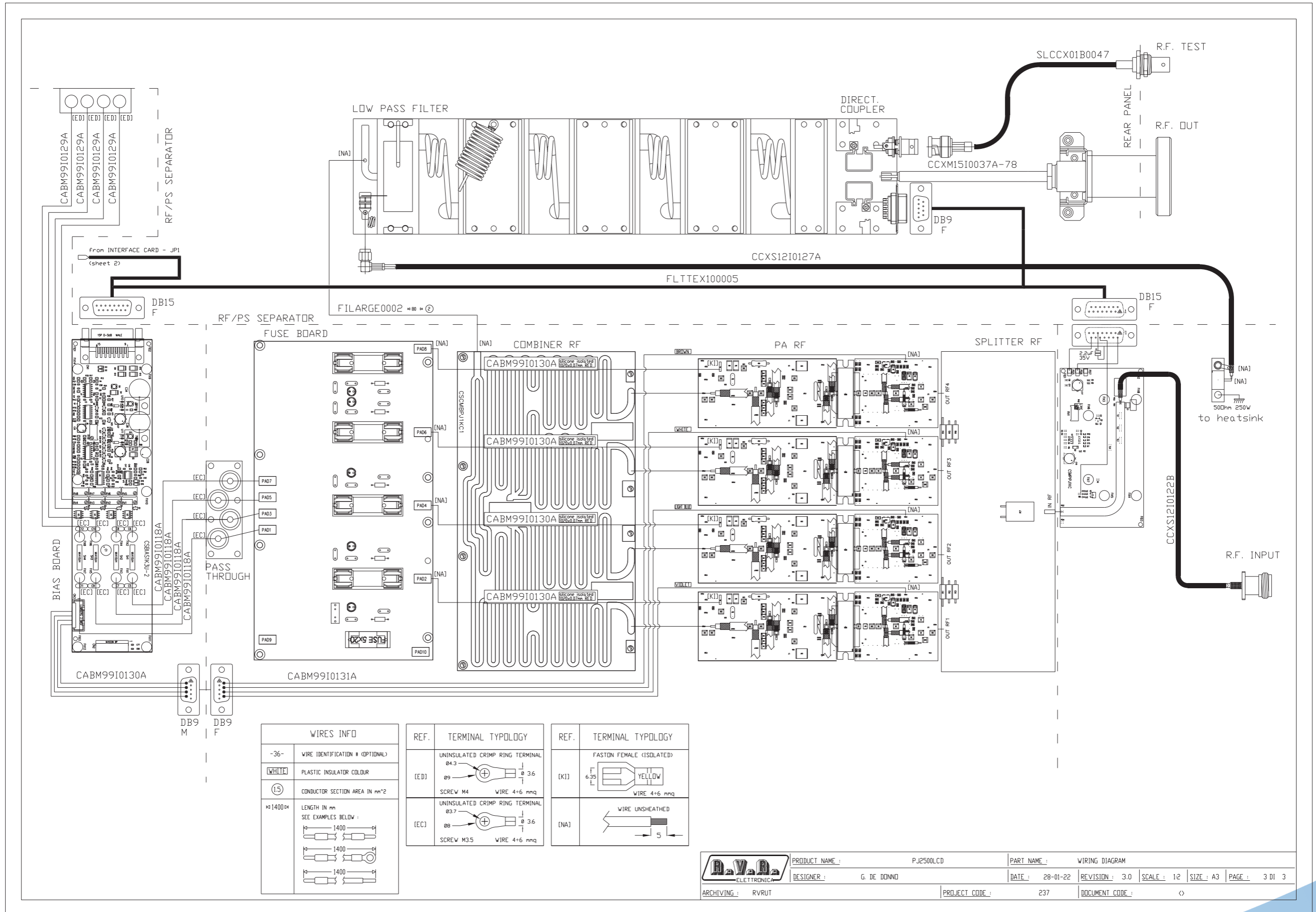
[JG]	FASTON MALE 6.35 WIRE 0.25+1.5 mmq RED
[KG]	FASTON FEMALE (ISOLATED) 6.35 WIRE 0.25+1.5 mmq RED
[NA]	WIRE UNSHEATHED 5

	PRODUCT NAME :	PJ2500LCD	PART NAME :	WIRING DIAGRAM	
	DESIGNER :	G. DE DONNO	DATE :	28-01-22	
ARCHIVING :	RVRUT	PROJECT CODE :	237	DOCUMENT CODE :	<
			REVISION :	3.0	
			SCALE :	1:2	
			SIZE :	A3	
			PAGE :	1 DI 3	



	PRODUCT NAME :	PJ2500LCD	PART NAME :	WIRING DIAGRAM	
	DESIGNER :	G. DE DONNO	DATE :	28-01-22	
ARCHIVING :	RVRUT	PROJECT CODE :	237	DOCUMENT CODE :	<>
			REVISION :	3.0	
			SCALE :	1:2	
			SIZE :	A3	
			PAGE :	2 DI 3	

PJ2500LCD Version



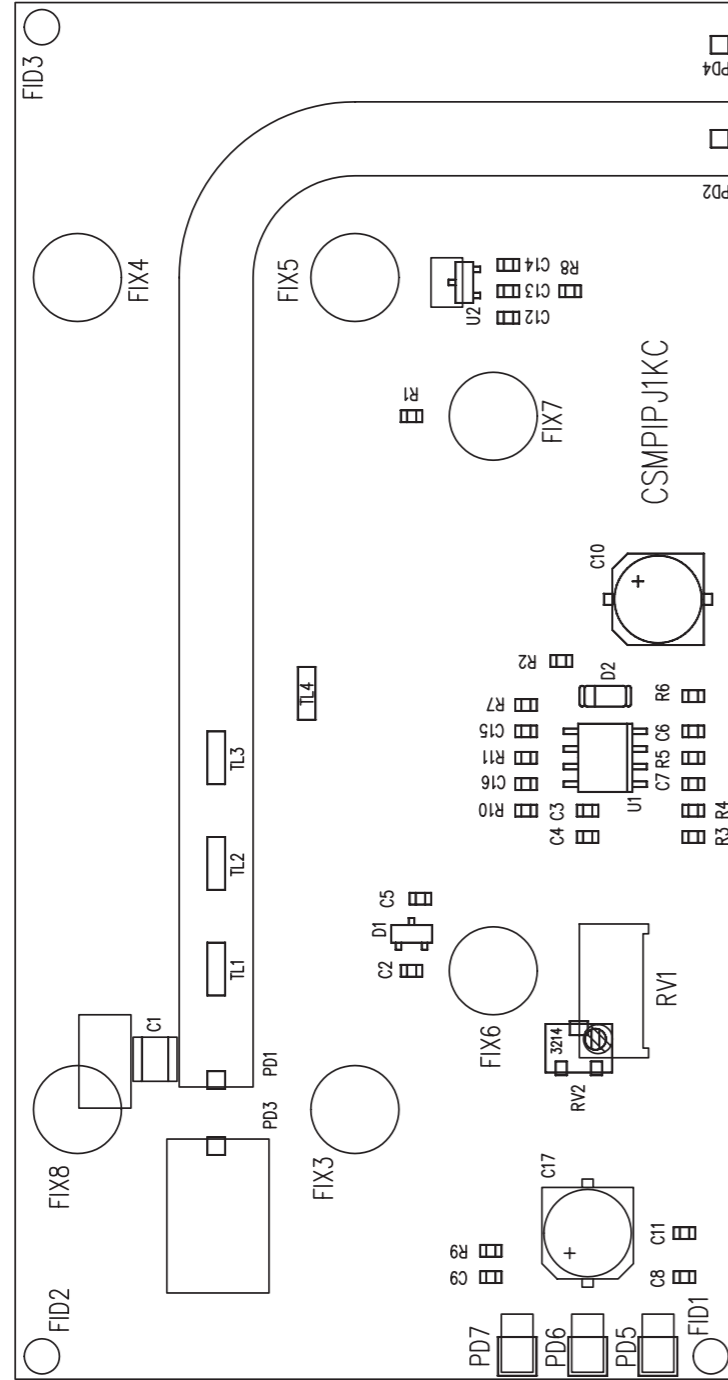
WIRES INFO	
-36-	WIRE IDENTIFICATION # (OPTIONAL)
WHITE	PLASTIC INSULATOR COLOUR
1.5	CONDUCTOR SECTION AREA IN mm <sup>2</sup>
1400	LENGTH IN mm SEE EXAMPLES BELOW:

REF.	TERMINAL TYPOLOGY
[ED]	UNINSULATED CRIMP RING TERMINAL Ø4.3 Ø9 SCREW M4 WIRE 4+6 mmq
[EC]	UNINSULATED CRIMP RING TERMINAL Ø3.7 Ø8 SCREW M3.5 WIRE 4+6 mmq

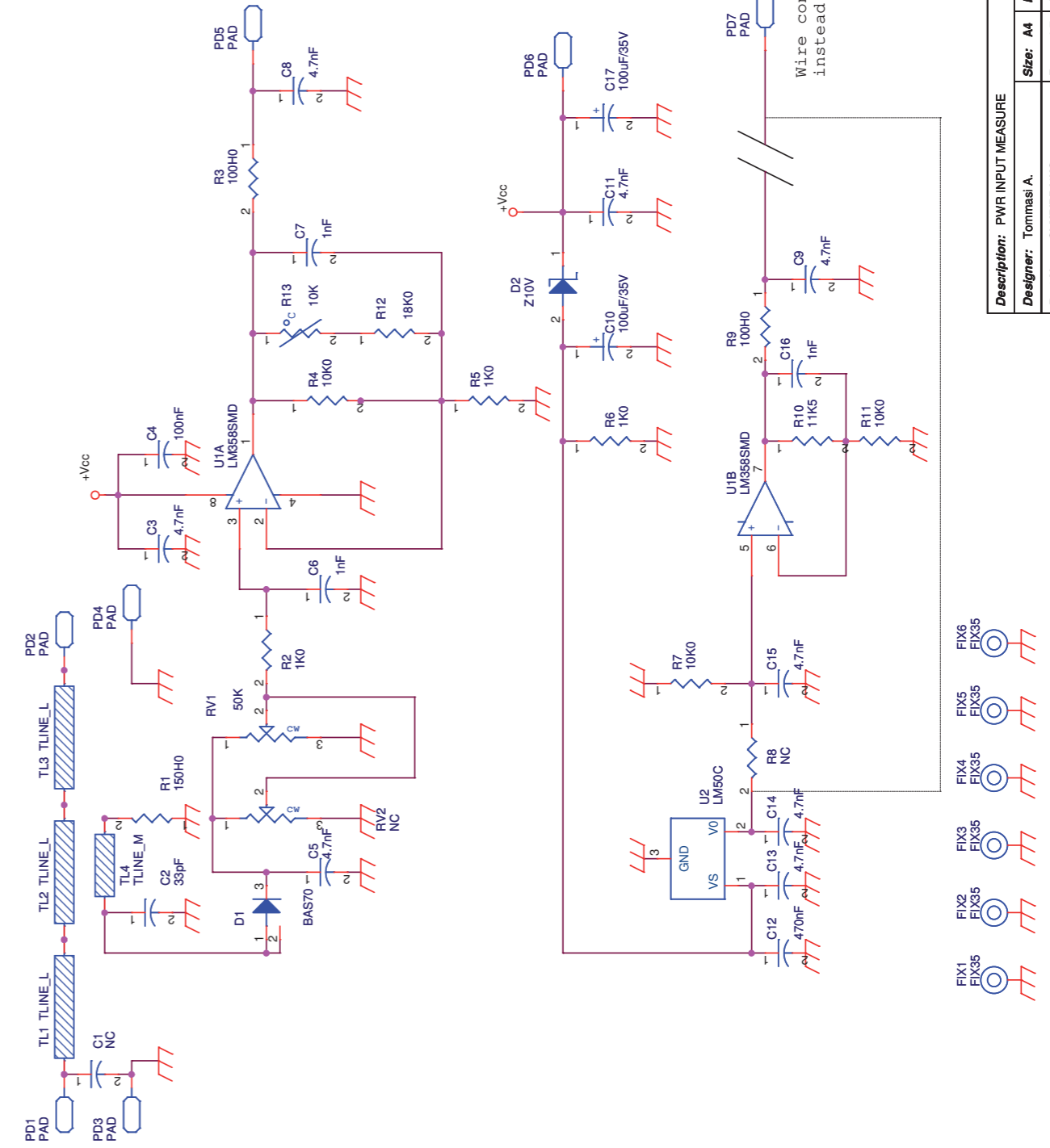
REF.	TERMINAL TYPOLOGY
[K1]	FASTON FEMALE (ISOLATED) 6.35 YELLOW WIRE 4+6 mmq
[NA]	WIRE UNSHEATHED 5

	PRODUCT NAME :	PJ2500LCD	PART NAME :	WIRING DIAGRAM	
	DESIGNER :	G. DE DONNO	DATE :	28-01-22	
ARCHIVING :	RVRUT	PROJECT CODE :	237	DOCUMENT CODE :	◇
		REVISION :	3.0	SCALE :	1:2
		SIZE :	A3	PAGE :	3 DI 3

SLMIPPJ1KC



R.V.R. ELECTRONICA		Pagina: 1 di 1		Size: A4	
Nome Progetto:	PJ1000C-LCD	Data:	29/10/03	Codice Progetto:	010
Autore:	Ufficio Tecnico	Revisione:	1.1	Nome Parte:	PWR INPUT MEASURE
Nome PC in Rete:	\\UT_SRV\PROGETTI	Autore:		Codice:	SLMIPPJ1KC
File/Carrello:	PJ1000C-LCD\SLMIPPJ1KC\SLMIPPJ1KC.DWG	Treatmento:	/	Profilo:	/
Scala:	2:1				



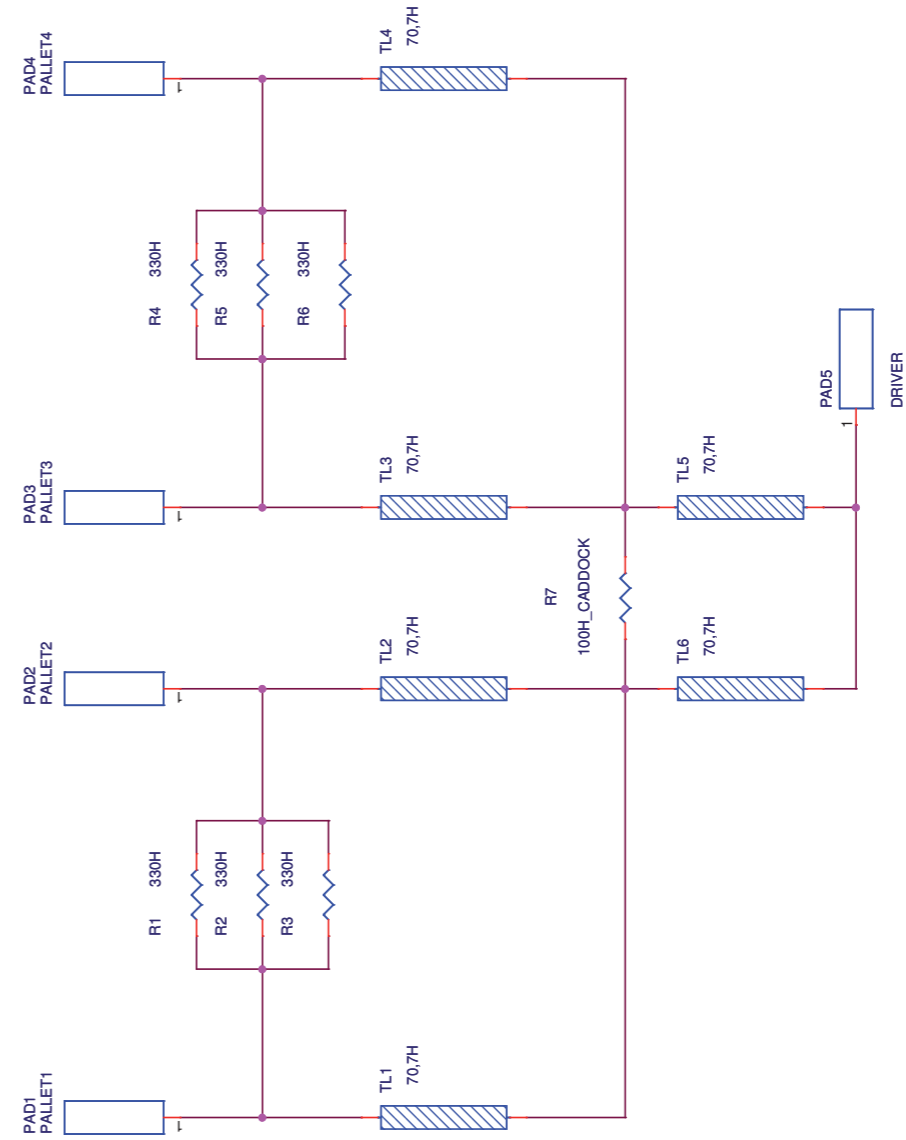
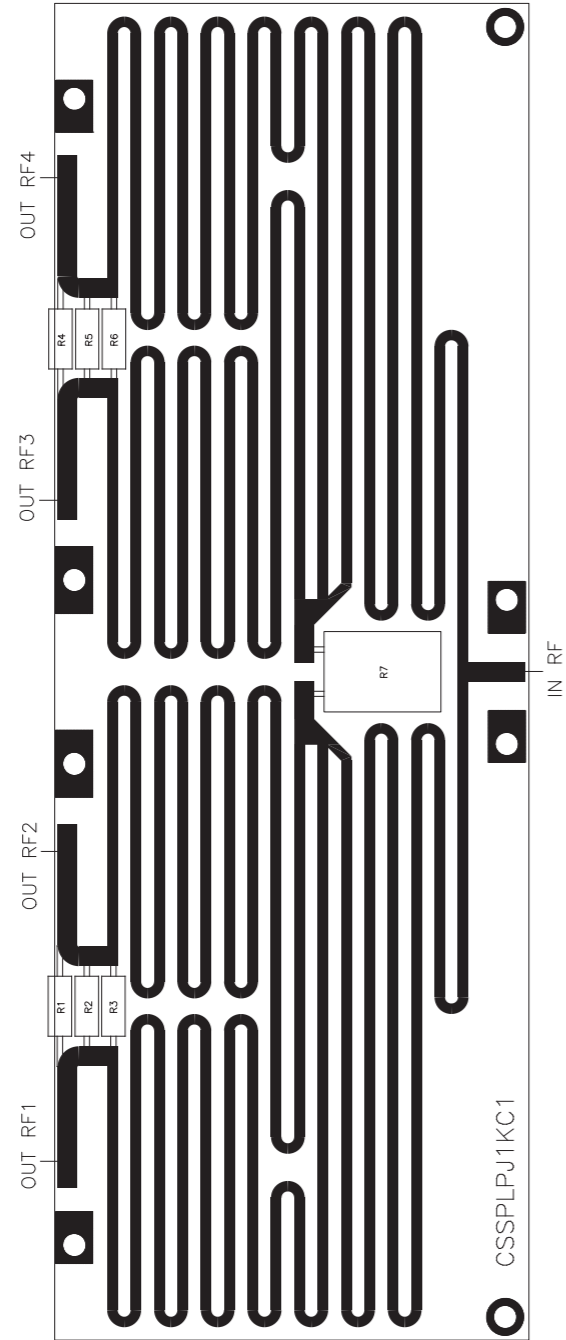
Description: PWR INPUT MEASURE		Size: A4	Page: 1 of 1
Designer: Tommasi A.		Rev: 1.7	Date: 10/12/2020
Part No.: SLMIPPJ1KC			

SLMIPPJ1KC

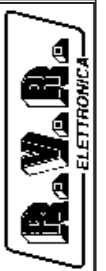
PWR INPUT MEASURE Revised: Thursday, December 10, 2020  
 SLMIPPJ1KC Revision: 1.7  
 Tommasi A.

Item	Quantity	Reference	Part	Description
1	1	C1	NC	1212 HQ SMD capacitor
2	1	C2	33pF	0805 SMD capacitor
3	8	C3, C5, C8, C9, C11, C13, C14, C15	4.7nF	0805 SMD capacitor
4	1	C4	100nF	0805 SMD capacitor
5	3	C6, C7, C16	1nF	0805 SMD capacitor
6	2	C10, C17	100uF/35V	SMD electr. cap. 6.3mm
7	1	C12	470nF	0805 SMD capacitor
8	1	D1	BAS70	SMD diode SOT23
9	1	D2	Z10V	MINIMELF SMD Zener Diode
10	6	FIX1, FIX2, FIX3, FIX4, FIX5, FIX6	FIX35	3.5mm Fixing hole
11	7	PD1, PD2, PD3, PD4, PD5, PD6, PD7	PAD	SMD pad
12	1	RV1	50K	Trimmer Rg V 3296W
13	1	RV2	NC	Trimmer SMD V 3314
14	1	R1	150H0	0805 SMD res.
15	3	R2, R5, R6	1K0	0805 SMD res.
16	2	R3, R9	100H0	0805 SMD res.
17	3	R4, R7, R11	10K0	0805 SMD res.
18	1	R8	NC	0805 SMD res.
19	1	R10	11K5	0805 SMD res.
20	1	R12	18K0	0805 SMD res.
21	1	R13	10K	NTC resistor SMD 0805
22	1	TL1, TL2, TL3	TLINE_L	
23	3	TL4	TLINE_M	
24	1	U1	LM358SMD	Dual Op. SMD SO8
25	1	U2	LM50C	Temperature sensor

SLSPJP1KC1



PRODUCT NAME : TEX-TFT	PART NAME : SPLITTER CARD
DESIGNER : FRANCESCHI A.	DATE : 09/09/03   REVISION : 1.0   SCALE : 1:1   SIZE : A4   PAGE : 1 DI 1
ARCHIVING : 'RVRUT' SERVER, 'RILASCIATI' FOLDER	PROJECT CODE : < >   DOCUMENT CODE : SLSPJP1KC1



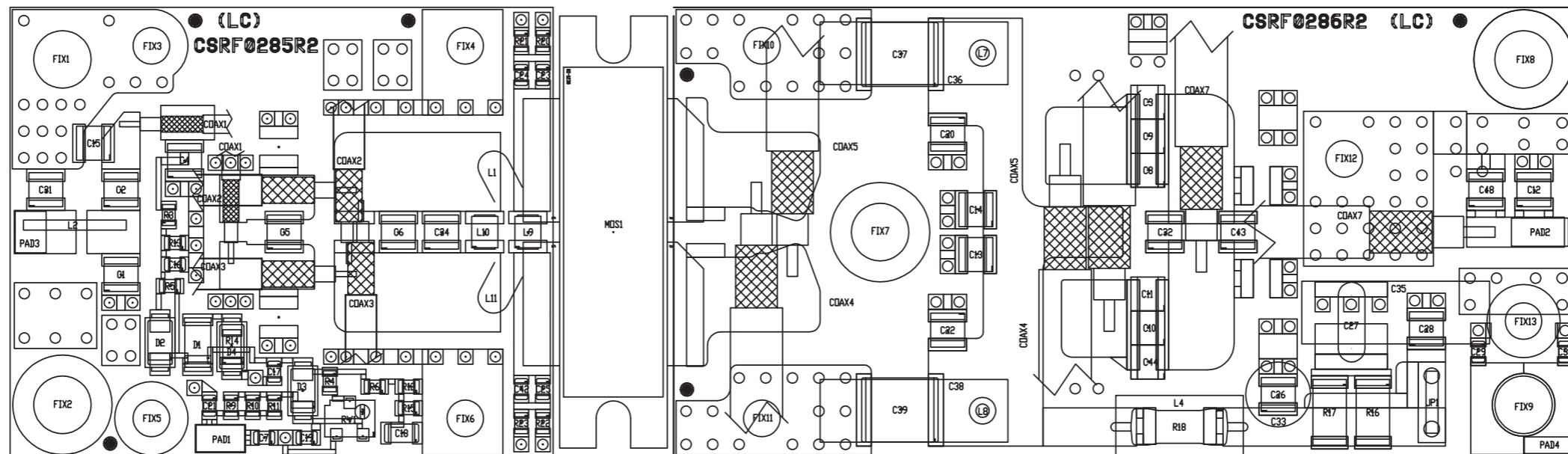
Description: Splitter Card	Size: A4	Page: 1 of 1
Designer: Franceschi A.	Rev: 1.0	Date: 09/09/2003
Part No.: SLSPJP1KC1		



SLSPJPJ1KC1

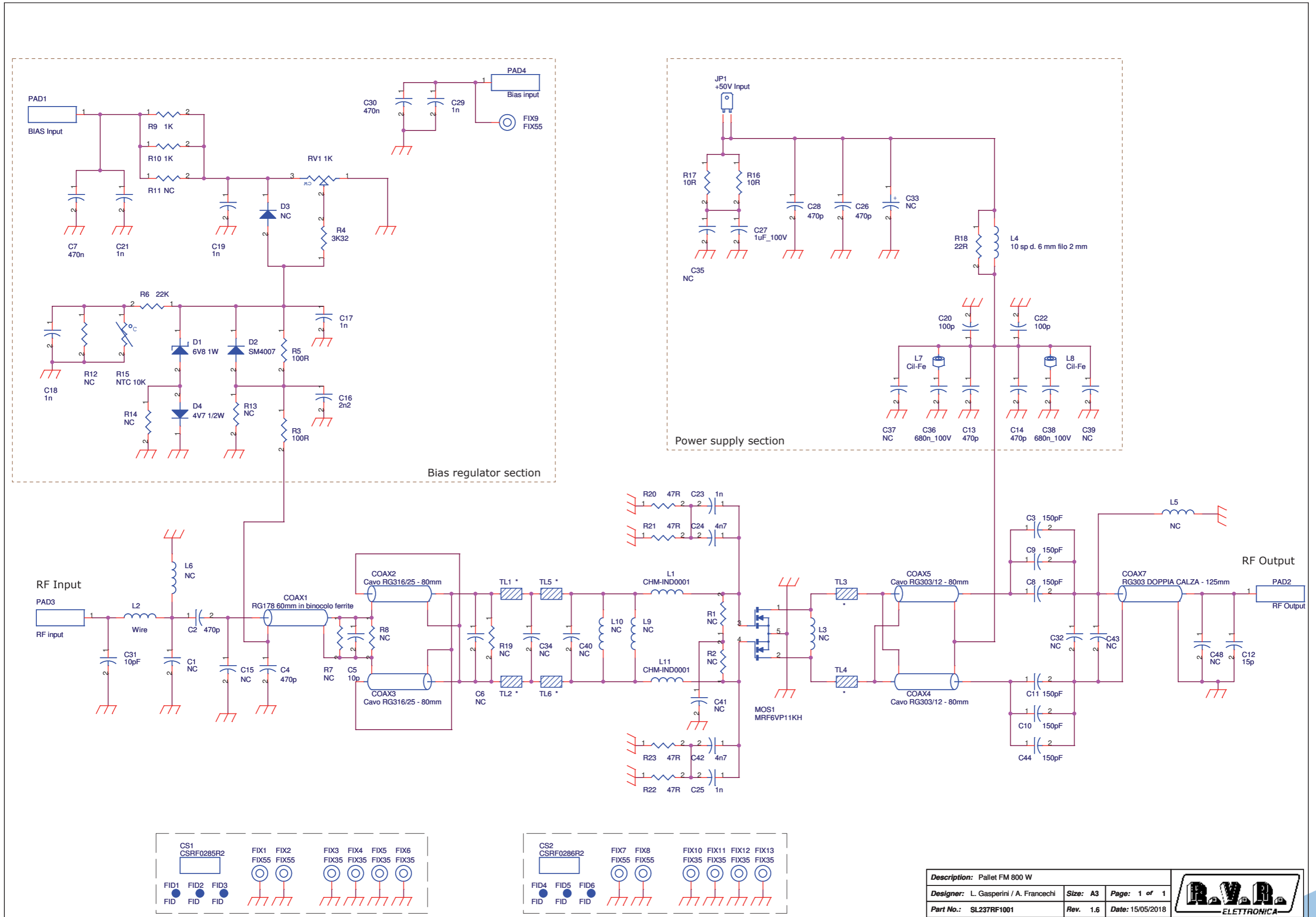
SCHEDA SPLITTER Revised: Monday, September 15, 2003  
 SLSPJPJ1KC1 Revision: 1.0  
 Franceschi A.

Item	Quantity	Reference	Part
1	1	PAD1	PALLET1
2	1	PAD2	PALLET2
3	1	PAD3	PALLET3
4	1	PAD4	PALLET4
5	1	PAD5	DRIVER
6	6	R1, R2, R3, R4, R5, R6	330H
7	1	R7	100H_CADDOCK
8	6	TL1, TL2, TL3, TL4, TL5, TL6	70,7H



	NOME PROGETTO: EXCITER HIGH EFFICIENTY	NOME PARTE: PALLET FM 800 W			
	AUTORE: GASPERINI / TOMMASI	DATA: 21/05/2014	REVISIONE: 1.2	SCALA: 2:1	SIZE: A3
ARCHIVIAZIONE ELETTRONICA: "CARTELLA RILASCIATI" SU "UTSRV"		CODICE PROGETTO: 237	CODICE DISEGNO: SL237RF1001		
MATERIALE: <>	TRATTAMENTO: <>	PROFILO: <>	STATO: ESECUTIVO		

**SL237RF4001**



<b>Description:</b> Pallet FM 800 W		
<b>Designer:</b> L. Gasperini / A. Francechi	<b>Size:</b> A3	<b>Page:</b> 1 of 1
<b>Part No.:</b> SL237RF1001	<b>Rev.:</b> 1.6	<b>Date:</b> 15/05/2018

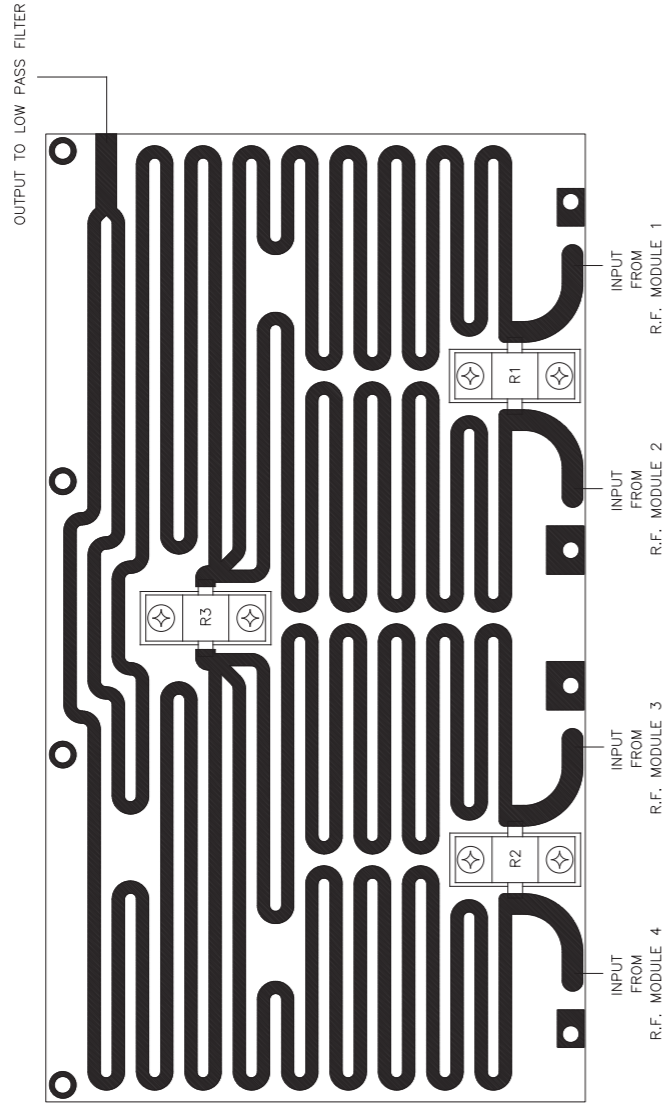


## SL237RF4001

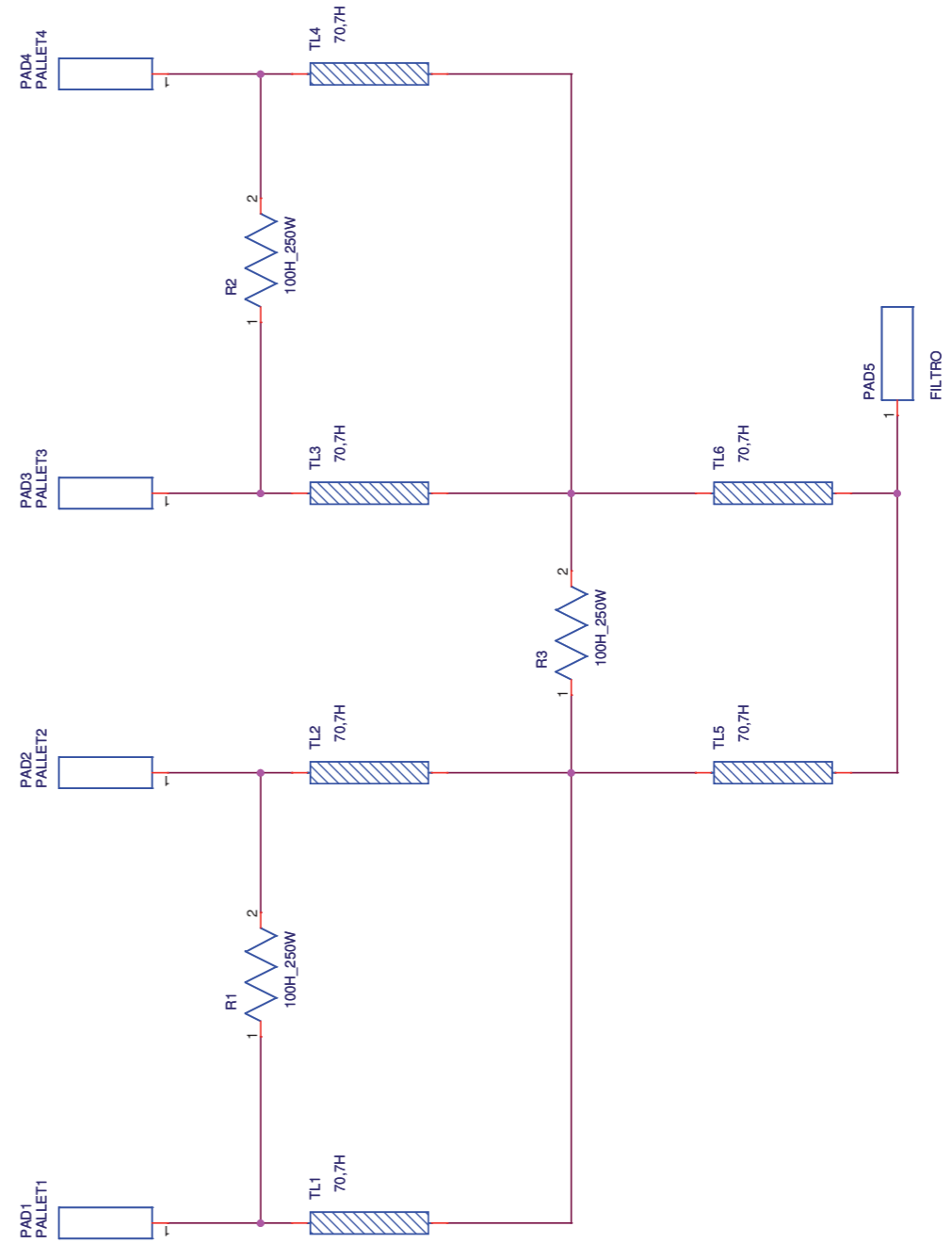
PALLET FM 800 W Revised: 15/05/2018  
 SL237RF1001 Revision: 1.6  
 L. Gasperini / A. Franceschi

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	CSRF0286R2	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	2	C5, C31	22p	Cond. SMD 1212 HQ
12	2	C7	470n	Cond. SMD 0805
13	6	C3, C44, C8, C9, C10, C11	150pF	Cond. SMD 1212 HQ
14	1	C12	15p	Cond. SMD 1212 HQ
15	6	C15, C32, C34, C40, C43, C48, C6	NC	Cond. SMD 1212 HQ
16	1	C16	2n2	Cond. SMD 0805 COG
17	5	C17, C19, C21, C23, C25	1n	Cond. SMD 0805
18	1	C18	1n	Cond. SMD 1206
19	2	C22, C20	100p	Cond. SMD 1212 HQ
20	2	C42, C24	4n7	Cond. SMD 0805
21	1	C27	1uF_100V	Cond. multistrato p 5mm
22	1	C29	1n	Cond. SMD 0805
23	3	C36, C38	680n_100V	Cond. Poliestere p 10mm
24	2	C37, C39	NC	Cond. Poliestere p 15mm
25	1	C41	NC	Cond. multistrato p 5mm
26	1	D1	6V8 1W	MELF SMD Zener Diode
27	1	D2	SM4007	Diode SMD cont. SMA
28	1	D3	NC	Diode SMD cont. SMA
29	1	D4	4V7 1/2W	MELF SMD Zener Diode
30	6	FID1, FID2, FID3, FID4, FID5, FID6	FID	Fiducial CS
31	5	FIX1, FIX2, FIX7, FIX8, FIX9	FIX55	Foro fissaggio 5.5mm
32	8	FIX3, FIX4, FIX5, FIX6, FIX10, FIX11, FIX12, FIX13	FIX35	Foro fissaggio 3.5mm
33	1	JP1	+50V Input	Faston da CS p. 5.08
34	2	L11, L1	CHM-IND0001	Printed link on copper
35	1	L2	Wire	Filo R. Arg. 1mm lung. 10mm
36	1	L3	NC	
37	1	L4	10 sp d. 6 mm filo 2 mm	10spire filo R. Small. 2mm Avvolte su 6mm includente R18 all'interno
38	2	L5, L9	NC	
39	1	L6	NC	
40	2	L7, L8	Cil-Fe	Cilindretto di ferrite
41	1	L10	NC	Ind. SMD 1008
42	1	MOS1	MRF6VP11KH	PP Power mosfet RF
43	2	PAD4, PAD1	BIAS Input	
44	1	PAD2	RF Output	
45	1	PAD3	RF input	
46	1	RV1	1K	Trimm. multi SMD PVG5 Murata
47	5	R1, R2, R7, R8, R19	NC	Res. 2W
48	2	R3, R5	100R	Res. SMD 0805 1%
49	1	R4	3K32	Res. SMD 0805 1%
50	1	R6	22K	Res. SMD 0805 1%
51	2	R10, R9	1K	Res. SMD 0805 1%
52	3	R11, R12, R13	NC	Res. SMD 0805 1%
53	1	R14	NC	Res. SMD 1206 1%
54	1	R15	NTC 10K	Res. NTC SMD 0805
55	2	R17, R16	10R	Res. SMD 2512 5%
56	1	R18	22R	Res. 2W
57	4	R20, R21, R22, R23	47R	Res. SMD 0805 1%
58	6	TL1, TL2, TL3, TL4, TL5, TL6	*	Linea strip CS
59	1		Ferrite balun	Ferrite balun

SLCMBPJ1KC1



	PRODUCT NAME : TEX-TFT	PART NAME : COMBINER CARD
DESIGNER : FRANCESCHI A.	DATE 09/09/03	REVIS. : 1.1
SCALE 1:1	SIZE A3	PAGE : 1 DI 1
ARCHIVING : RVRUT - SERVER, 'RILASCIATI' - FOLDER	PROJECT CODE : <	DOCUMENT CODE : SLCMBPJ1KC1



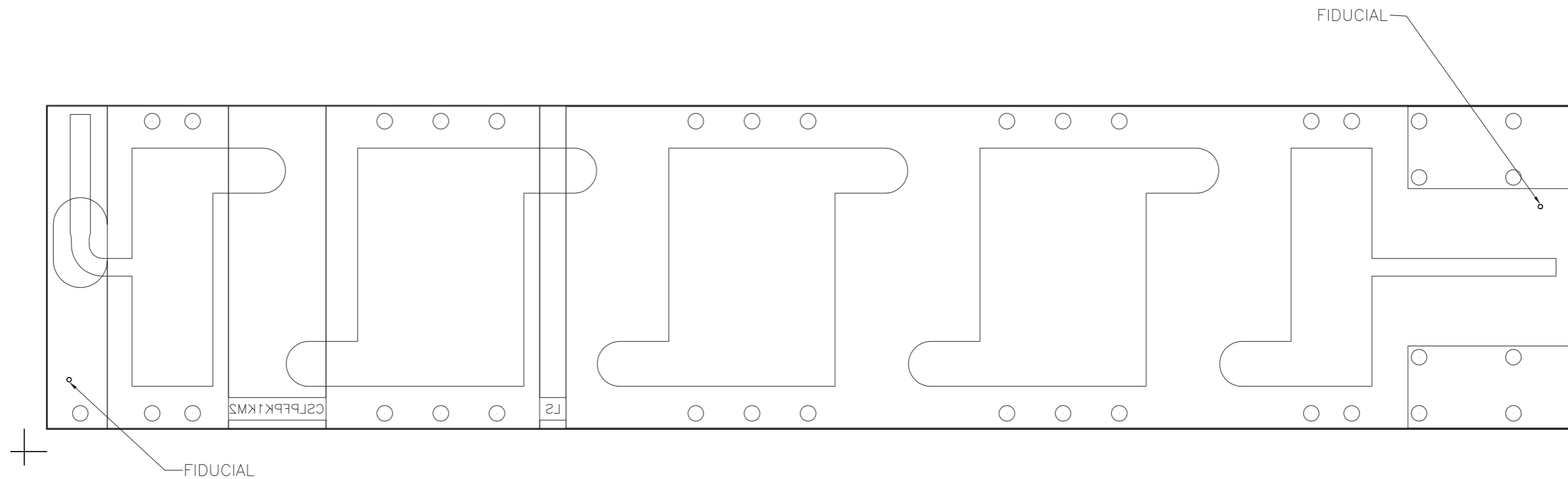
Description: Combiner Card	
Designer: Franceschi A.	Size: A4
Part No.: SLCMBPJ1KC1	Page: 1 of 1
Rev. 1.1	Date: 09/09/2003

SLCMBPJ1KC1

Combiner Card Date: Monday, September 15, 2003  
 SLCMBPJ1KC1 Revision: 1.1  
 Franceschi A.

Item	Quantity	Reference	Part
1	1	PAD1	PALLET1
2	1	PAD2	PALLET2
3	1	PAD3	PALLET3
4	1	PAD4	PALLET4
5	1	PAD5	FILTRO
6	3	R1, R2, R3	100H_250W
7	6	TL1, TL2, TL3, TL4, TL5, TL6	70,7H

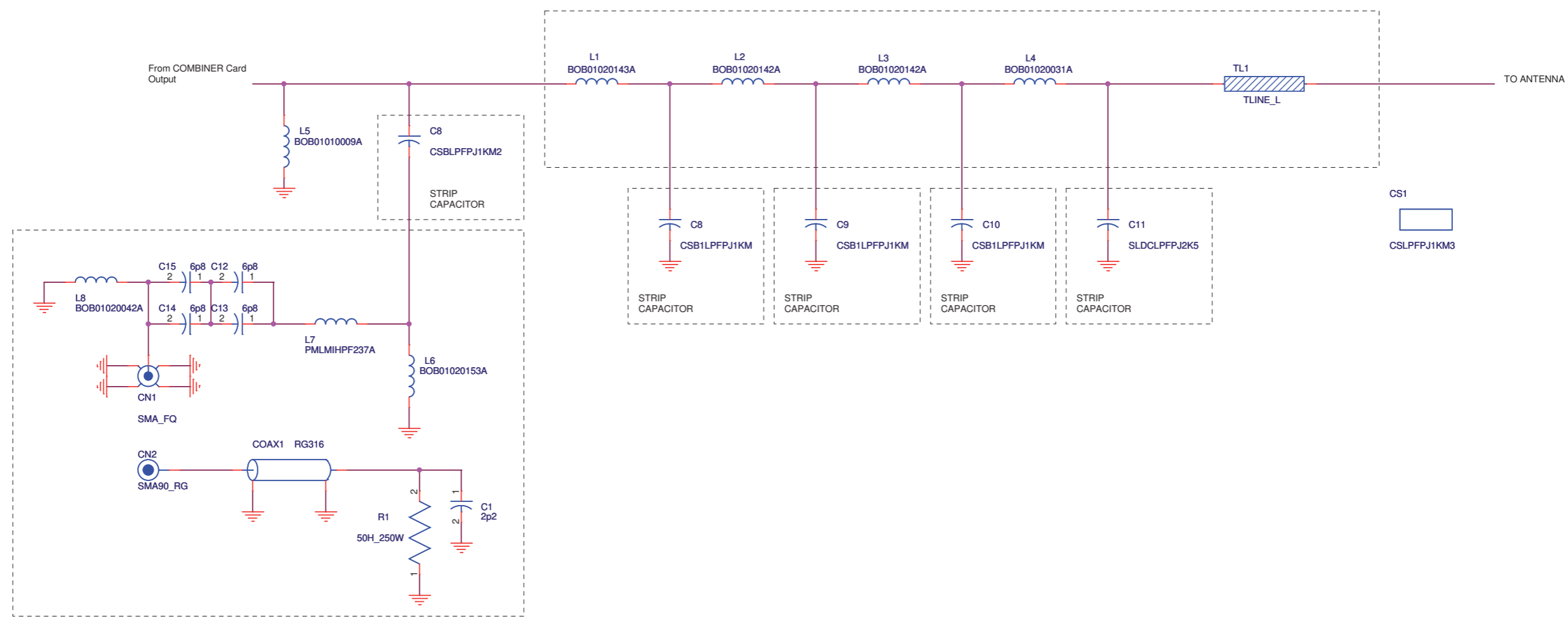
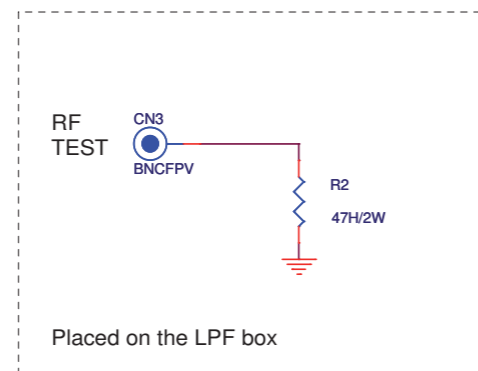
REF	Q.TA	DIAM	TRATTAMENTO
○	35	3.50	NESSUNO



LATO COMPONENTI VISTA LATO COMPONENTI  
 LATO SALDATURA VISTA LATO COMPONENTI  
 PIANO DI FORATURA  
 BORDO SCHEDA

Dimensioni del C.S.: 339.50x72.00mm

1.1   27/03/06   D.Miladinovic		L.Gasperini		N31 CMP/04   Aggiunta asola 12x20 sul lato saldature	
		DENOMINAZIONE			
		Circuito Stampato Filtro Passa Basso			
MATERIALE		DISPOSITIVO			
		PJ1000M (1000W Mos-Fet Amplifier)			
TRATTAMENTO		DISEGNATO		DISEGNO	
		Diclad 527 Doppia Faccia Sp. 1.6mm Rame 70/70		D'Alessio D. li 07/04/2001	
ARGENTATURA		SCALA		TAVOLA n	
		1:1		1 di 1	



Description: Low Pass Filter			
Designer: Franceschi A.	Size: A3	Page: 1 of 1	
Part No.: SLLPFTEX2K5	Rev. 1.2	Date: 21/05/2013	

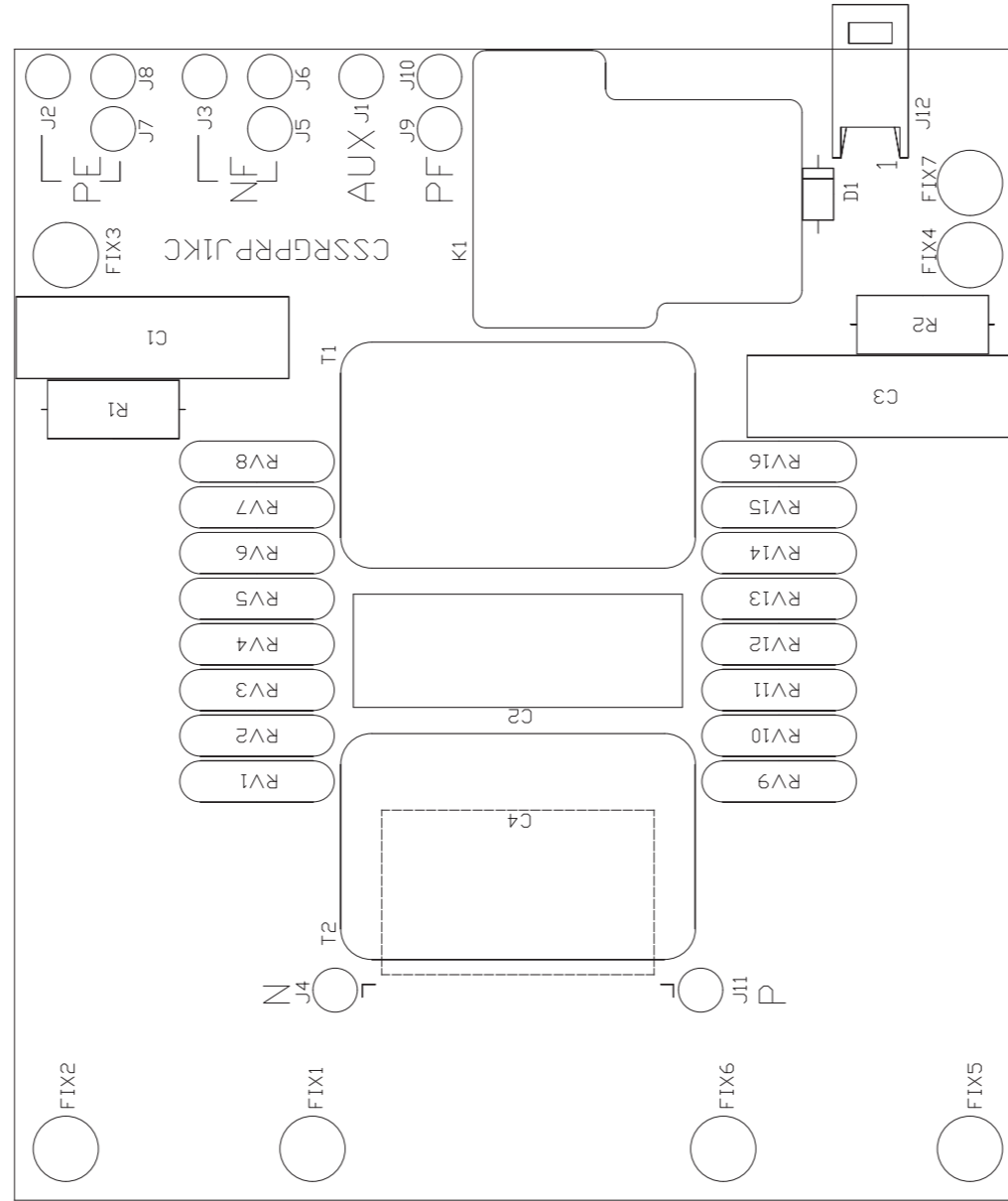


SLLPFTEX2K5

Low Pass Filter Revised: Tuesday, May 21, 2013  
 SLLPFTEX2K5 Revision: 1.2  
 Franceschi A.

Item	Quantity	Reference	Part	Description
1	1	CN1	SMA_FQ	
2	1	CN2	SMA90_RG	
3	1	CN3	BNCFPV	
4	1	COAX1	RG316	
5	1	CS1	CSLPFPJ1KM3	
6	1	C1	2p2	
7	1	C8	CSBLPFPJ1KM2	
8	3	C8, C9, C10	CSB1LPFPJ1KM	
9	1	C11	SLDCLPFPJ2K5	
10	4	C12, C13, C14, C15	6p8	
11	1	L1	BOB01020143A	
12	2	L2, L3	BOB01020142A	
13	1	L4	BOB01020031A	
14	1	L5	BOB01010009A	
15	1	L6	BOB01020153A	
16	1	L7	PMLMIHPF237A	
17	1	L8	BOB01020042A	
18	1	R1	50H_250W	
19	1	R2	47H/2W	
20	1	TL1	TLINE_L	

SLSRGPRPJ1KM



PRODUCT NAME : TEX-TFT

DESIGNER : FRANCESCHI A.

ARCHIVING : "RVUT" SERVER, "RILASCIATI" FOLDER

PART NAME : SURGE PROTECTION CARD

DATE : 22/11/05

REVISION : 1.2

SCALE : 1:1

SIZE : A4

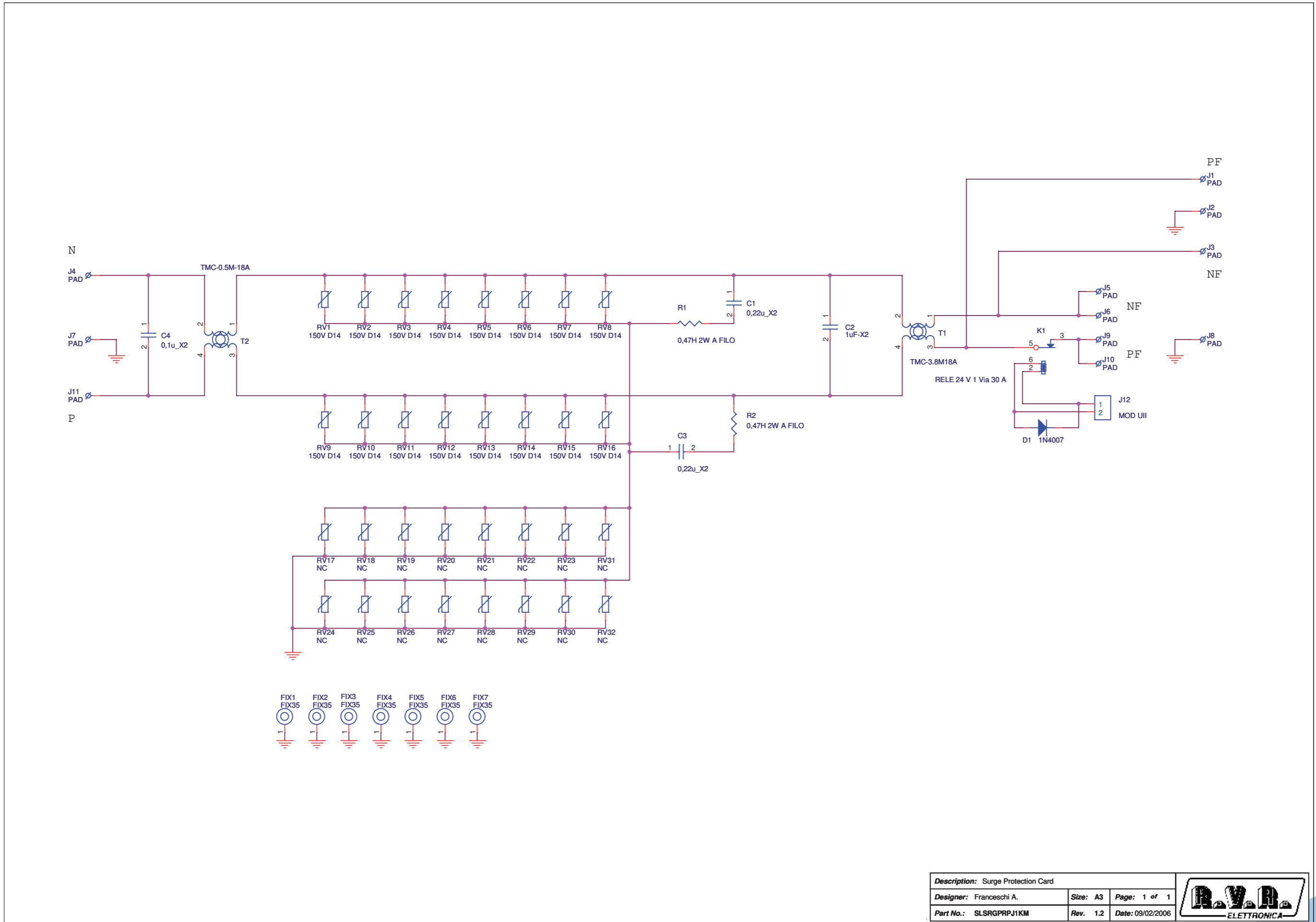
PAGE : 1

DI : 1

DOCUMENT CODE : SLSRGPRPJ1KM

PROJECT CODE : 252

SLSRGPRPJ1KM



<b>Description:</b> Surge Protection Card		
<b>Designer:</b> Franceschi A.	<b>Size:</b> A3	<b>Page:</b> 1 of 1
<b>Part No.:</b> SLSRGPRPJ1KM	<b>Rev.:</b> 1.2	<b>Date:</b> 09/02/2006

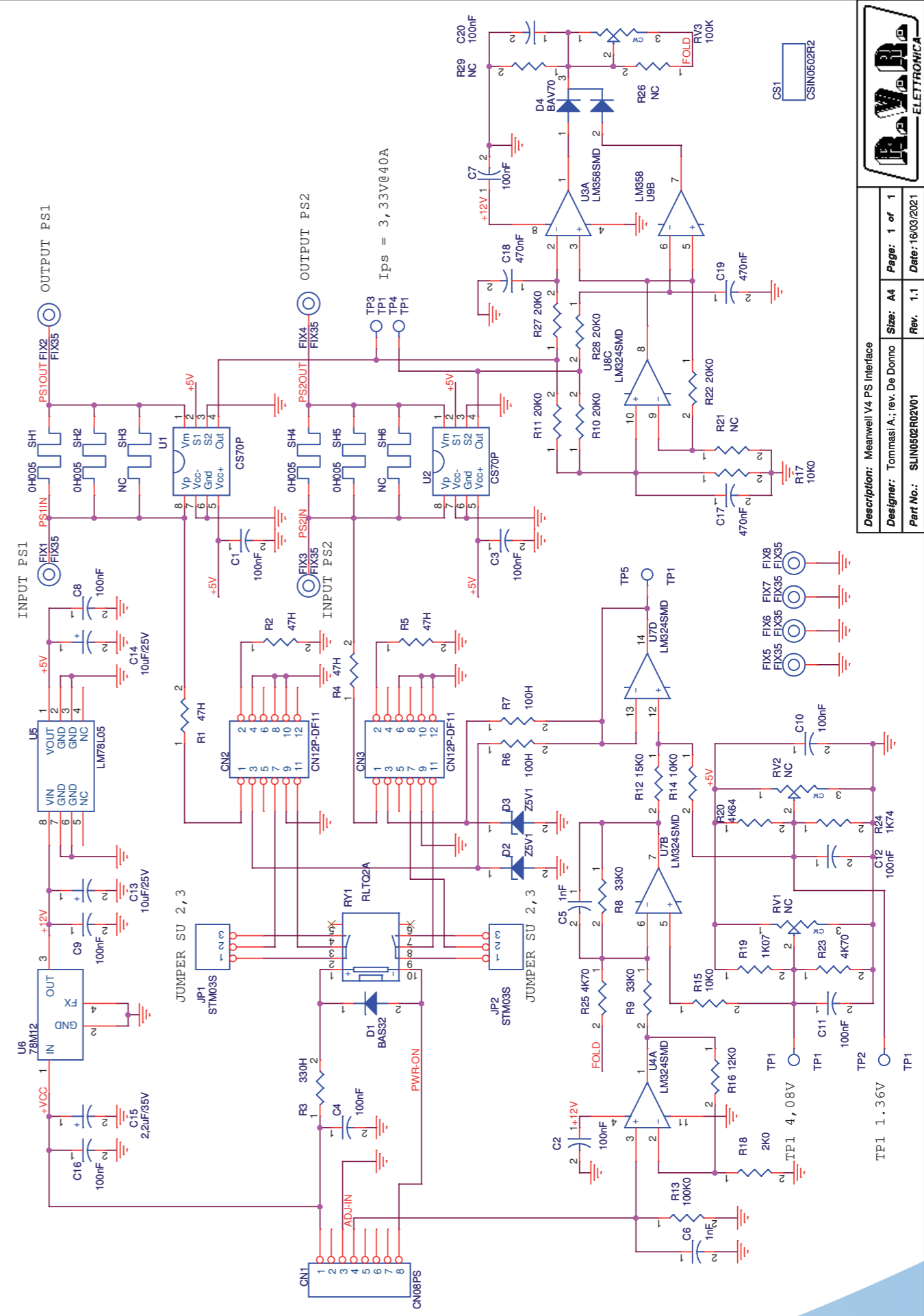
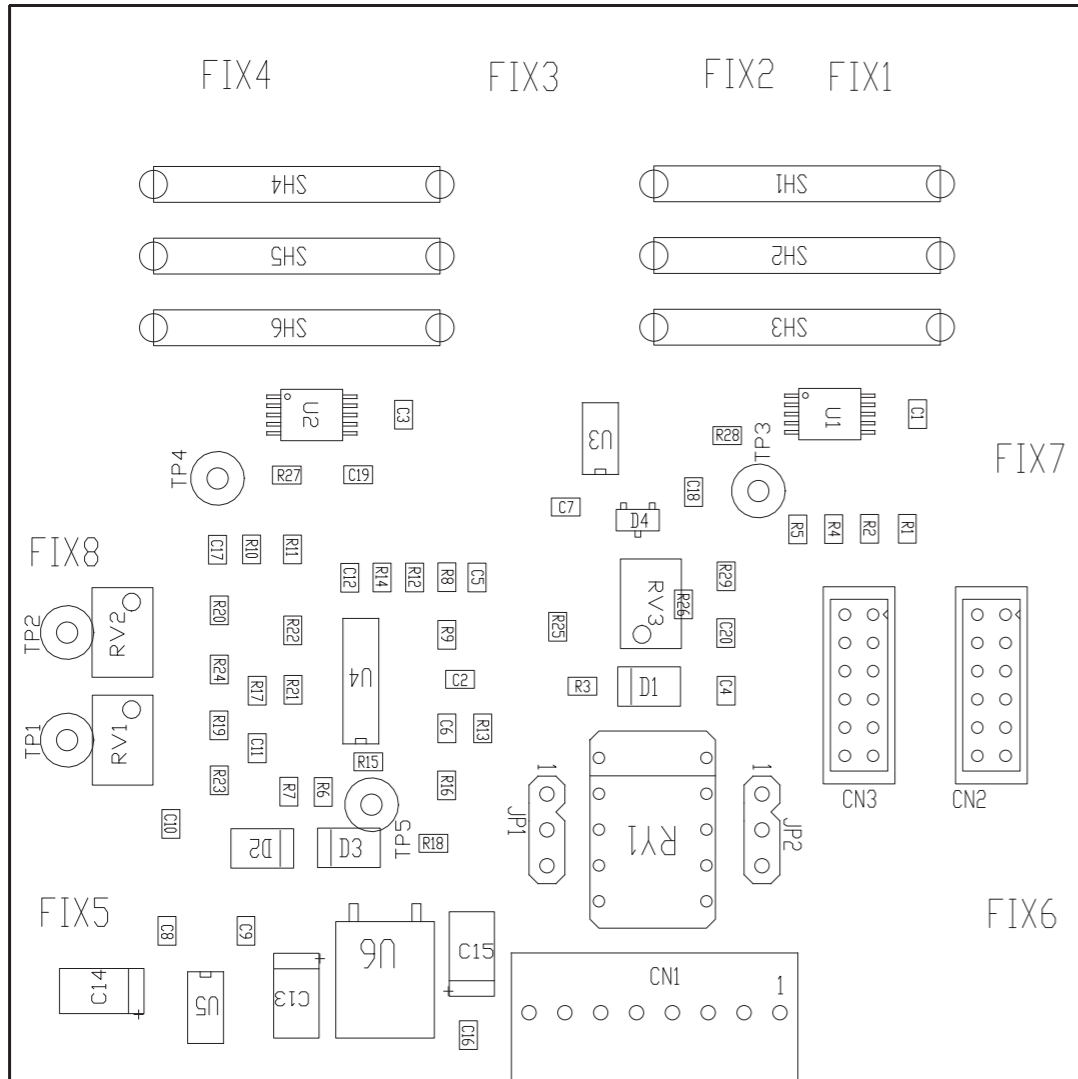


SLSRGPRPJ1KM

Surge Protection Card Revised: 09/02/2006  
 SLSRGPRPJ1KM Revision: 1.2  
 Franceschi A.

Item	Quantity	Reference	Part
1	2	C1, C3	0,22u_X2
2	1	C2	1uF-X2
3	1	C4	0,1u_X2
4	1	D1	1N4007
5	7	FIX1, FIX2, FIX3, FIX4, FIX5, FIX6, FIX7	FIX35
6	11	J1, J2, J3, J4, J5, J6, J7, J8, J9, J10, J11	PAD
7	1	J12	MOD UII
8	1	K1	RELE 24 V 1 Via 30 A
9	16	RV1, RV2, RV3, RV4, RV5, RV6, RV7, RV8, RV9, RV10, RV11, RV12, RV13, RV14, RV15, RV16	150V D14
10	2	R2, R1	0,47H 2W A FILO
11	1	T1	TMC-3.8M18A
12	1	T2	TMC-0.5M-18A

SLIN0502R02V01



	PRODUCT NAME : KKPWS4880MW	PART NAME : MEANWELL V4 PS INTERFACE
	DESIGNER : A. TOMMASI	DATE : 30/06/20   REVISION : 1.0   SCALE : 2:1   SIZE : A4   PAGE : 1 DI 1
ARCHIVING : *RV*UT* SERVER, *RILASCIATI* FOLDER	PROJECT CODE : 237	DOCUMENT CODE : SLIN0502R02V01

Description: Meanwell V4 PS Interface	Page: 1 of 1
Designer: Tommasi A.; rev. De Donno	Size: A4
Part No.: SLIN0502R02V01	Rev. 1.1
	Date: 16/03/2021

SLIN0502R02V01

Meanwell V4 PS Interface Revised: 16/03/2021  
 SLIN0502R02V01 Revision: 1.1  
 Tommasi A.; rev. De Donno

Item	Quantity	Reference	Part\Description	Code	
1	1	CN1	CN08PS	8 way Mascon conn.	CNTMASM20PCS
2	2	CN2, CN3	CN12P-DF11	12 way DF11 conn. 12pin p. 2mm	CNTHRSM12DCS
3	1	CS1	CSIN0502R2	Printed Circuit board	CSIN0502R2
4	12	C1, C2, C3, C4, C7, C8, C9, C10, C11, C12, C16, C20	100nF	0805 SMD capacitor	CCC085104KXC
5	2	C5, C6	1nF	0805 SMD capacitor	CCC085102JCC
6	2	C13, C14	10uF/25V	SMD tantalium cap. size C	CET106C250SM
7	1	C15	2,2uF/35V	SMD tantalium cap. size C	CET225C350SM
8	3	C17, C18, C19	470nF	0805 SMD capacitor	CCC085474KXC
9	1	D1	BAS32	MINIMELF SMD Diode	DISBAS32MINI
10	2	D2, D3	Z5V1	MINIMELF SMD Zener Diode	DIZ5V1MINI
11	1	D4	BAV70	Dual diode SMD SOT23	DISBAV70
12	8	FIX1, FIX2, FIX3, FIX4, FIX5, FIX6, FIX7, FIX8	FIX35	3.5mm Fixing hole	
13	2	JP1, JP2	STM03S	Male strip 3 pin	CNTSTM40SDA
14	2	RV1, RV2	NC	Trimmer Rg V 3269W SMD	
15	1	RV3	100K	Trimmer Rg V 3269W SMD	RVT3269WK100
16	1	RY1	RLTQ2A	TQ2 relay	RLD2V12V05AM
17	4	R1, R2, R4, R5	47H	0805 SMD res.	RCH085F0047H
18	1	R3	330H	0805 SMD res.	RCH085F0330H
19	2	R6, R7	100H	0805 SMD res.	RCH085F0100H
20	2	R8, R9	33K0	0805 SMD res.	RCH085F0033K
21	5	R10, R11, R22, R27, R28	20K0	0805 SMD res.	RCH085F0020K
22	1	R12	15K0	0805 SMD res.	RCH085F0015K
23	1	R13	100K0	0805 SMD res.	RCH085F0100K
24	3	R14, R15, R17	10K0	0805 SMD res.	RCH085F0010K
25	1	R16	12K0	0805 SMD res.	RCH085F0012K
26	1	R18	2K0	0805 SMD res.	RCH085F0002K
27	1	R19	1K07	0805 SMD res.	RCH085F01K07
28	1	R20	4K64	0805 SMD res.	RCH085F04K64
29	1	R21	NC	0805 SMD res.	
30	2	R23, R25	4K70	0805 SMD res.	RCH085F004K7
31	1	R24	1K74	0805 SMD res.	RCH085F01K74
32	2	R26, R29	NC	0805 SMD res.	
33	4	SH1, SH2, SH4, SH5	0H005	OAR shunt 5W	RSH05W0H005
34	2	SH3, SH6	NC	OAR shunt 5W	
35	5	TP1, TP2, TP3, TP4, TP5	TP1	Test point	
36	2	U1, U2	CS70P	High side current sense	CILCS70P
37	1	U3	LM358SMD	Dual Op. SMD SO8	CILLM358SMD
38	1	U4	LM324SMD	Quad Op. SMD SO14	CILLM324SMD
39	1	U5	LM78L05	Voltage reg. SMD SO8	CIL78L05SMD
40	1	U6	78M12	Voltage reg. SMD DPAK	CIL78M12DPAK



2000W Single Output Power Supply

RSP-2000 series

Function Description of CN501

Pin No.	Function	Description
1	+S	Positive sensing. The +S signal should be connected to the positive terminal of the load. The +S and -S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.5V.
2	-S	Negative sensing. The -S signal should be connected to the negative terminal of the load. The -S and +S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.5V.
3	PV	Connection for output voltage trimming. The voltage can be trimmed within its defined range. (Note.1)
4	GND	This pin connect to the negative terminal(-V).
5	DC-OK	High (4.5 ~ 5.5V) : When the $V_{out} \leq 80\% \pm 6\%$ . Low (0 ~ 0.5V) : When $V_{out} \geq 80\% \pm 6\%$ . The maximum sourcing current is 10mA and only for output. (Note.2)
6	T-ALARM	High (4.5 ~ 5.5V) : When the internal temperature (TSW1 or TSW2 open) exceeds the limit of temperature alarm. Low (0 ~ 0.5V) : When the internal temperature (TSW1 or TSW2 short) under the limit temperature. (Note.2)
7	ON/OFF	The unit can turn the output on and off by electrical signal or dry contact between ON/OFF and +5V-AUX. (Note.2) Short (4.5 ~ 5.5V) : Power OFF ; Open (0 ~ 0.5V) : Power ON ; The maximum input voltage is 5.5V.
8,9,10	GND-AUX	Auxiliary voltage output GND. The signal return is isolated from the output terminals (+V & -V).
11	+5V-AUX	Auxiliary voltage output, 4.5~5.5V, referenced to GND-AUX (pin ). The maximum load current is 0.3A. This output has the built-in "Oring diodes" and is not controlled by the remote ON/OFF control.
12	+12V-AUX	Auxiliary voltage output, 10.6~13.2V, referenced to GND-AUX (pin ). The maximum load current is 0.8A. This output has the built-in "Oring diodes" and is not controlled by the remote ON/OFF control.

Note1: Non-isolated signal, referenced to the output terminals (-V).  
Note2: Isolated signal, referenced to GND-AUX.

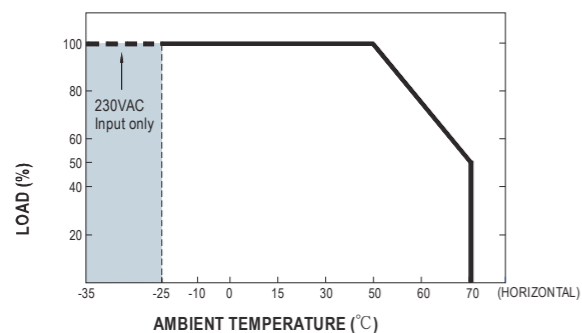
Function Description of CN502

Pin No.	Function	Description
1,2	DA	Differential digital signal for parallel control.
3,4	DB	Differential digital signal for parallel control.
5,6	GND	These pins connect to the negative terminal (-V).

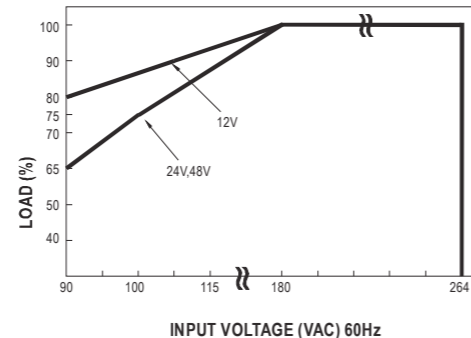
Function Description of CN504

Pin No.	Function	Description
1,2	Terminal resistance	CN504 is the selector of terminal resistor that is designed for DA/DB signals and parallel control function.

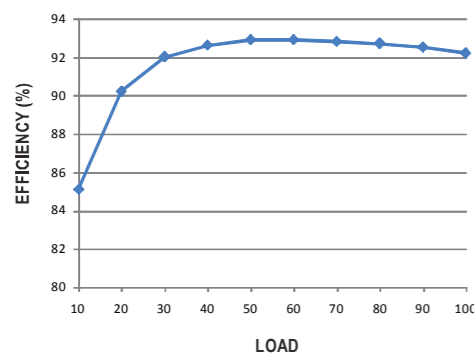
Derating Curve



Static Characteristics



EFFICIENCY vs LOAD (48V Model)



DERATING LOAD(%) VS INPUT VOLTAGE

MODEL \ INPUT/VOLTAGE	180VAC	115VAC	100VAC	90VAC
RSP-2000-12	100%	95%	90%	80%
RSP-2000-24	100%	80%	75%	65%
RSP-2000-48	100%	80%	75%	65%

File Name:RSP-2000-SPEC 2013-11-01



2000W Single Output Power Supply

RSP-2000 series

Function Manual

1. Remote ON/OFF Control

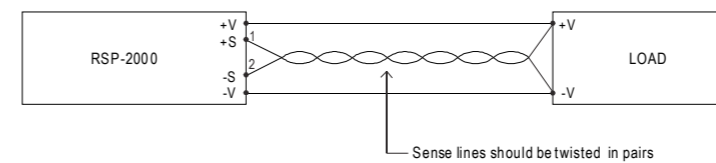
The PSU can be turned ON/OFF together or separately by using the "Remote ON/OFF" function.



Between ON/OFF and +5V-AUX	PSU Output
SW Open	ON
SW Short	OFF

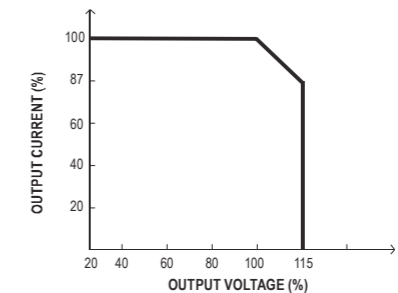
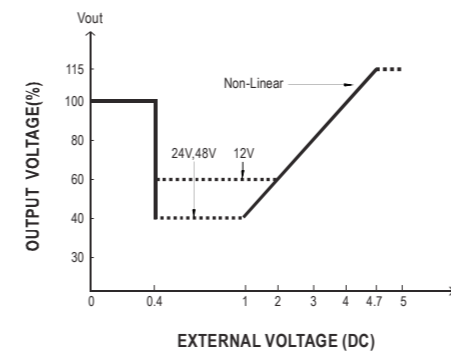
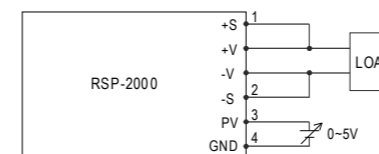
2. Remote Sense

The remote sense compensates voltage drop on the load wiring up to 0.5V.



3. Output Voltage Trimming

- (1) Output voltage can be trimmed between 40~115% of its rated value by the following method.
- (2) +S & +V, -S & -V also need to be connected on CN501.



MODEL \ PV / VOLTAGE	<0.4V	1V	2V	3V	4V	4.7V
RSP-2000-12	100%	60%	60%	80%	100%	115%
RSP-2000-24	100%	40%	60%	80%	100%	115%
RSP-2000-48	100%	40%	60%	80%	100%	115%

4. Front Panel Indicators & Corresponding Signal at Function Pins

Function	LED	Description	* Signal	PSU Output
DC-OK	GREEN	When output voltage $\geq 80\% \pm 5\%$ of $V_o$ rated.	0 ~ 0.5V	ON
DC-NG	RED	When output voltage $\leq 80\% \pm 5\%$ of $V_o$ rated.	4.5 ~ 5.5V	ON
T-OK	GREEN	When the internal temperature (TSW1 & TSW2 short) is within safe limit	0 ~ 0.5V	ON
T-ALARM	RED	When the internal temperature (TSW1 or TSW2 open) exceeds the limit of temperature alarm	4.5 ~ 5.5V	OFF

\*Signal between function pin and "GND-AUX".

File Name:RSP-2000-SPEC 2013-11-01



2000W Single Output Power Supply

### RSP-2000 series

#### Function Description of CN501

Pin No.	Function	Description
1	+S	Positive sensing. The +S signal should be connected to the positive terminal of the load. The +S and -S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.5V.
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3	PV	Connection for output voltage trimming. The voltage can be trimmed within its defined range. (Note.1)
4	GND	This pin connect to the negative terminal(-V).
5	DC-OK	High (4.5 ~ 5.5V) : When the Vout $\leq 80\% \pm 6\%$ . Low (0 ~ 0.5V) : When Vout $\geq 80\% \pm 6\%$ . The maximum sourcing current is 10mA and only for output. (Note.2)
6	T-ALARM	High (4.5 ~ 5.5V) : When the internal temperature (TSW1 or TSW2 open) exceeds the limit of temperature alarm. Low (0 ~ 0.5V) : When the internal temperature (TSW1 or TSW2 short) under the limit temperature. (Note.2)
7	ON/OFF	The unit can turn the output on and off by electrical signal or dry contact between ON/OFF and +5V-AUX. (Note.2) Short (4.5 ~ 5.5V) : Power OFF ; Open (0 ~ 0.5V) : Power ON ; The maximum input voltage is 5.5V.
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Note1: Non-isolated signal, referenced to the output terminals (-V).  
Note2: Isolated signal, referenced to GND-AUX.

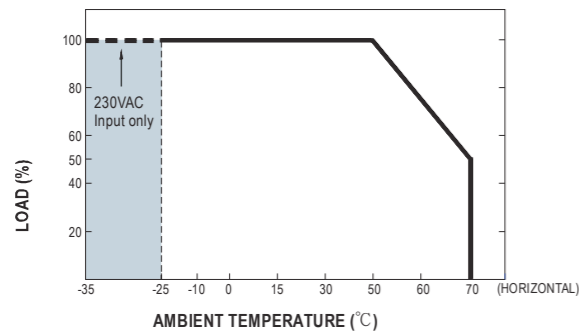
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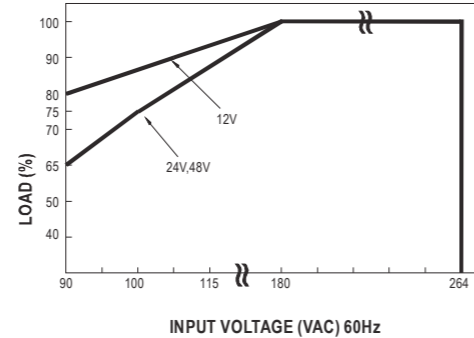
#### Function Description of CN504

Pin No.	Function	Description
1,2	Terminal resistance	CN504 is the selector of terminal resistor that is designed for DA/DB signals and parallel control function.

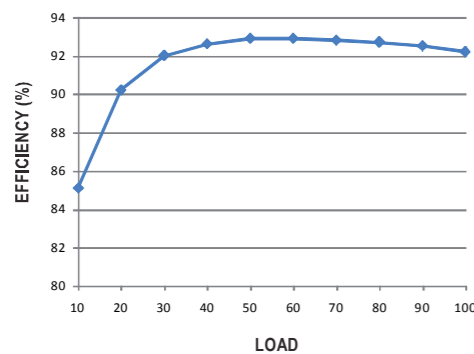
#### Derating Curve



#### Static Characteristics



#### EFFICIENCY vs LOAD (48V Model)



#### DERATING LOAD(%) VS INPUT VOLTAGE

MODEL	INPUT/VOLTAGE	180VAC	115VAC	100VAC	90VAC
RSP-2000-12		100%	95%	90%	80%
RSP-2000-24		100%	80%	75%	65%
RSP-2000-48		100%	80%	75%	65%

File Name:RSP-2000-SPEC 2013-11-01



2000W Single Output Power Supply

### RSP-2000 series

#### Function Manual

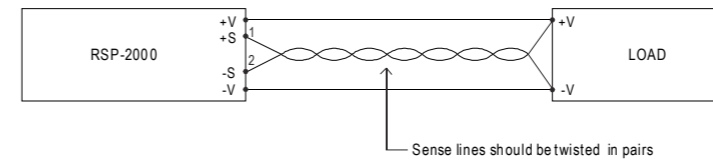
##### 1. Remote ON/OFF Control

The PSU can be turned ON/OFF together or separately by using the "Remote ON/OFF" function.



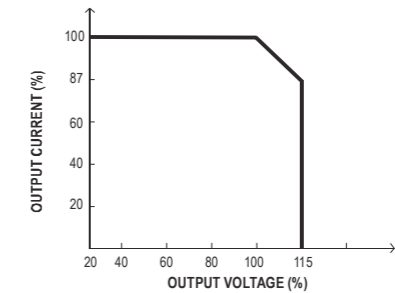
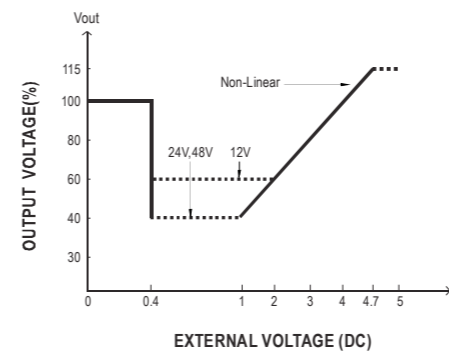
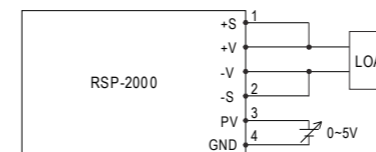
##### 2. Remote Sense

The remote sense compensates voltage drop on the load wiring up to 0.5V.



##### 3. Output Voltage Trimming

- Output voltage can be trimmed between 40~115% of its rated value by the following method.
- +S & +V, -S & -V also need to be connected on CN501.



MODEL	PV / VOLTAGE					
	<0.4V	1V	2V	3V	4V	4.7V
RSP-2000-12	100%	60%	60%	80%	100%	115%
RSP-2000-24	100%	40%	60%	80%	100%	115%
RSP-2000-48	100%	40%	60%	80%	100%	115%

##### 4. Front Panel Indicators & Corresponding Signal at Function Pins

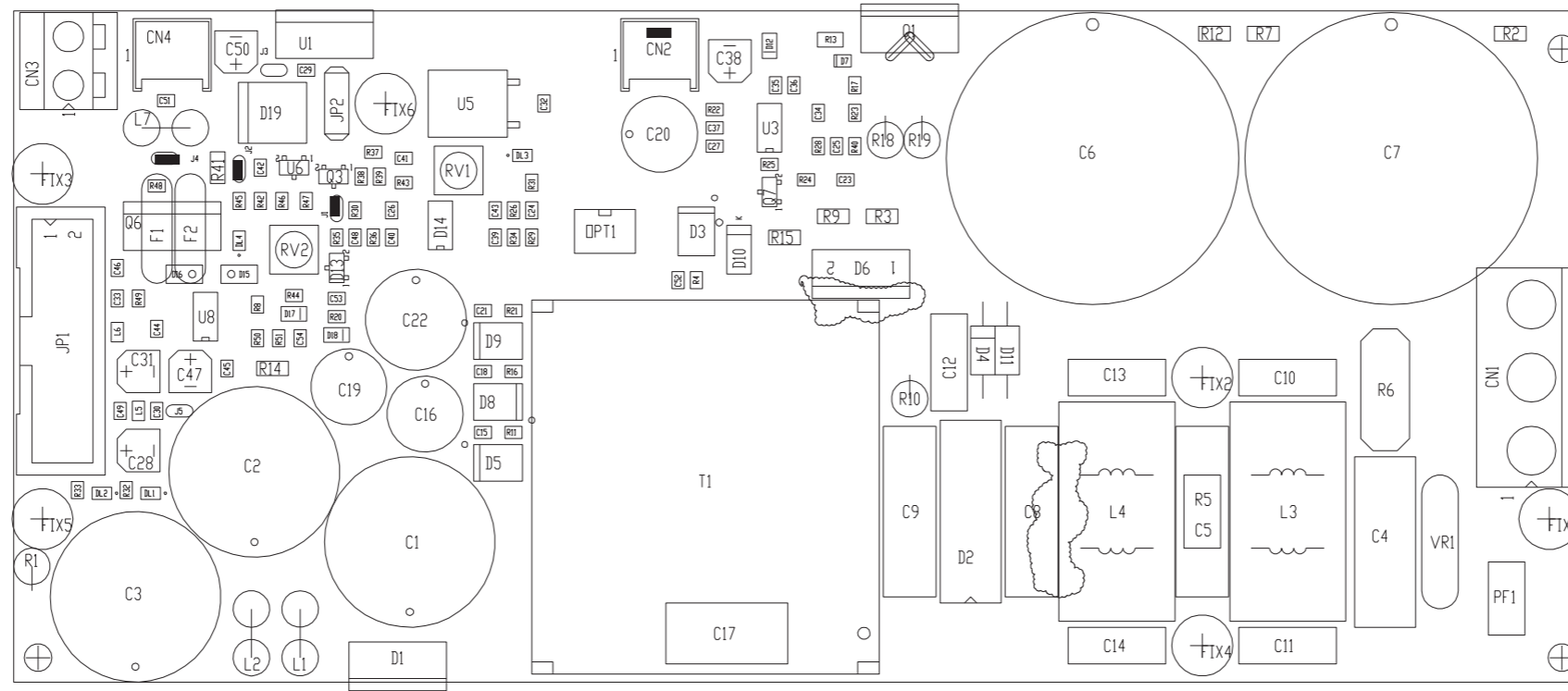
Function	LED	Description	* Signal	PSU Output
DC-OK	GREEN	When output voltage $\geq 80\% \pm 5\%$ of Vo rated.	0 ~ 0.5V	ON
DC-NG	RED	When output voltage $\leq 80\% \pm 5\%$ of Vo rated.	4.5 ~ 5.5V	ON
T-OK	GREEN	When the internal temperature (TSW1 & TSW2 short) is within safe limit	0 ~ 0.5V	ON
T-ALARM	RED	When the internal temperature (TSW1 or TSW2 open) exceeds the limit of temperature alarm	4.5 ~ 5.5V	OFF

\*Signal between function pin and "GND-AUX".

File Name:RSP-2000-SPEC 2013-11-01



PSL2405



PRODUCT NAME : PSL2405

DESIGNER : TEKNIGHT

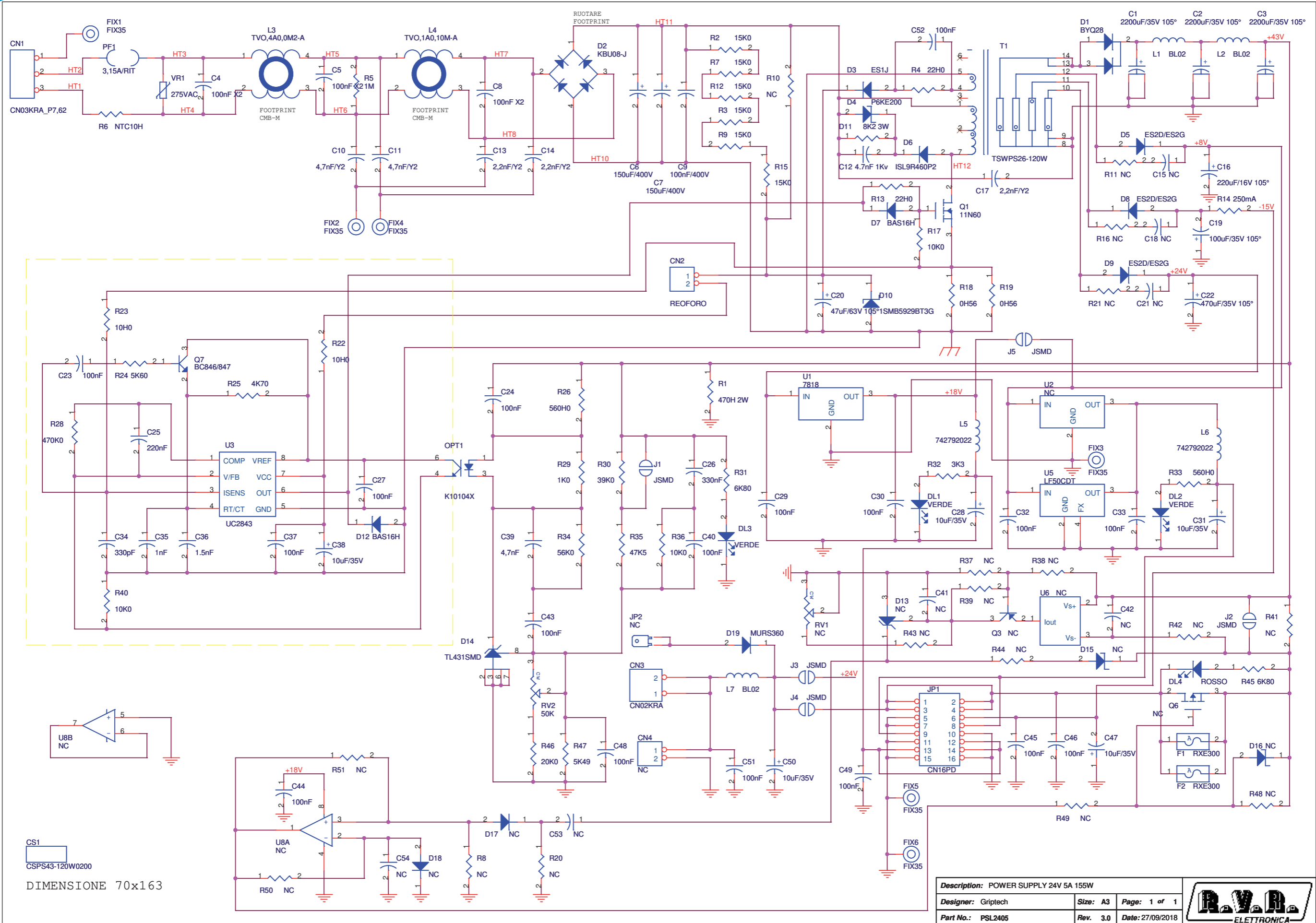
ARCHIVING : "RVRUT" SERVER, "RILASCIATI" FOLDER

PART NAME : POWER SUPPLY

DATE : 29/12/15 | REVISION : 1.0 | SCALE : 1:1 | SIZE : A4 | PAGE : 1 | DI : 1

PROJECT CODE : <> | DOCUMENT CODE : PSL2405

PSL2405



DIMENSIONE 70x163

<b>Description:</b> POWER SUPPLY 24V 5A 155W		
<b>Designer:</b> Griptech	<b>Size:</b> A3	<b>Page:</b> 1 of 1
<b>Part No.:</b> PSL2405	<b>Rev.:</b> 3.0	<b>Date:</b> 27/09/2018



## PSL2405

POWER SUPPLY 24V 5A 155W Revised: Monday, May 20, 2019  
PSL2405 Revision: 3.0

Griptech

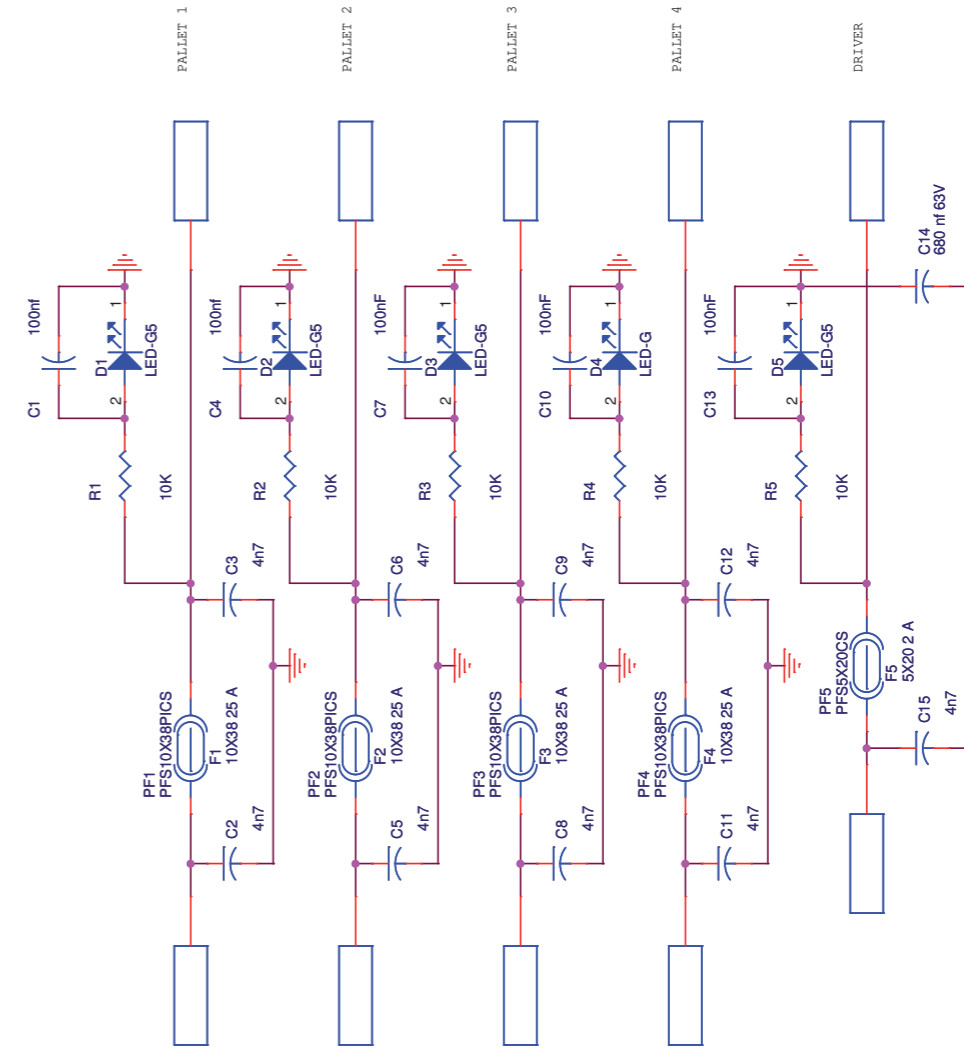
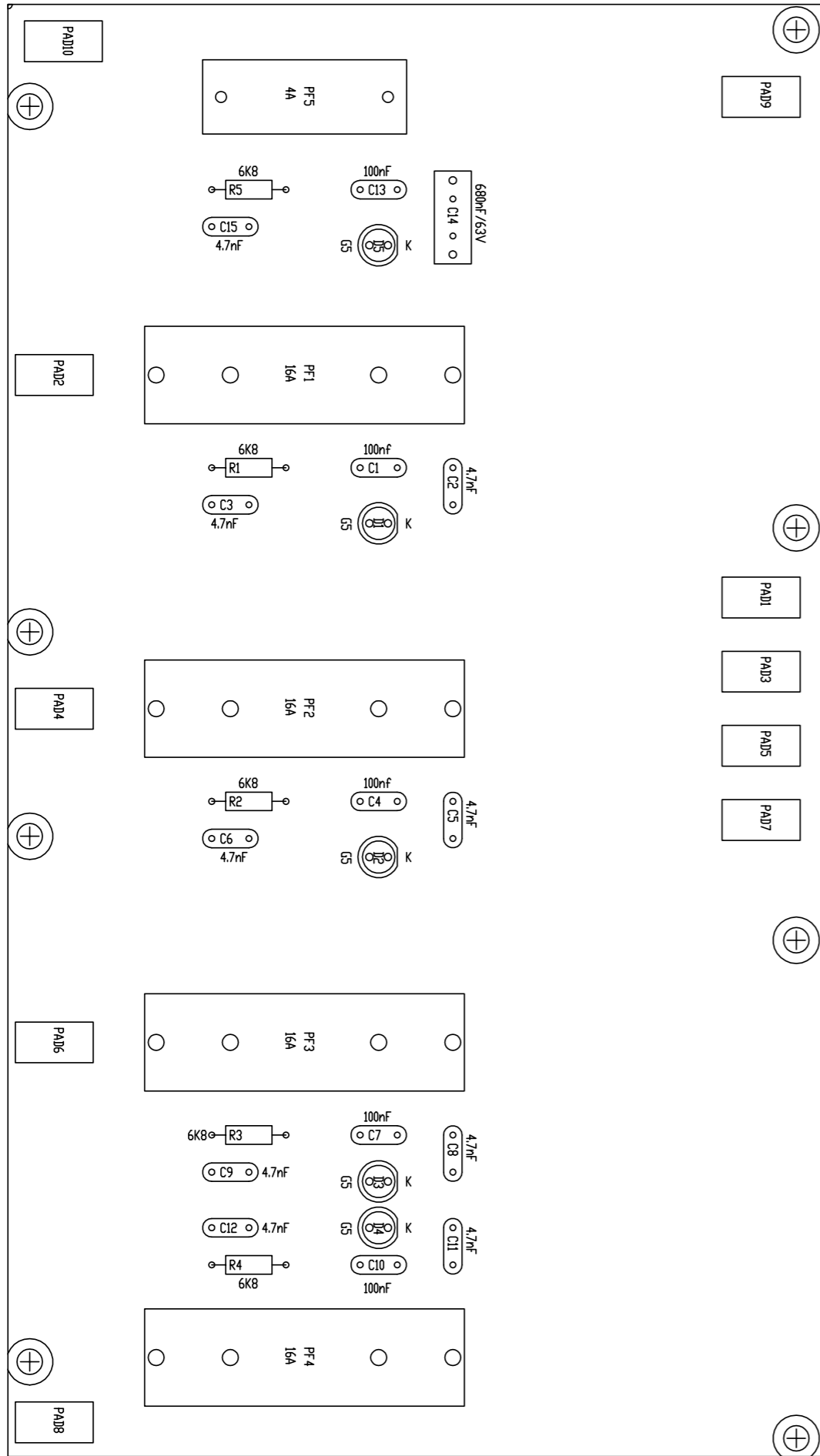
Item	Quantity	Reference	Part
1	1	CN1	CN03KRA_P7,62
2	1	CN2	REOFORO
3	1	CN3	CN02KRA
4	37	RV1, U2, JP2, Q3, CN4, U6, Q6, U8, R8, R10, R11, D13, D15, C15, R16, D16, D17, D18, C18, R20, R21, C21, R37, R38, R39, R41, C41, R42, C42, R43, R44, R48, R49, R50, R51, C53, C54	NC
5	1	C51	CSPS43-120W0200
6	3	C1, C2, C3	2200uF/35V 105°
7	3	C4, C5, C8	100nF X2
8	2	C6, C7	150uF/400V
9	1	C9	100nF/400V
10	2	C10, C11	4,7nF/Y2
11	1	C12	4.7nF 1Kv
12	3	C13, C14, C17	2,2nF/Y2
13	1	C16	220uF/16V 105°
14	1	C19	100uF/35V 105°
15	1	C20	47uF/63V 105°
16	1	C22	470uF/35V 105°
17	17	C23, C24, C27, C29, C30, C32, C33, C37, C40, C43, C44, C45, C46, C48, C49, C51, C52	100nF
18	1	C25	220nF
19	1	C26	330nF
20	5	C28, C31, C38, C47, C50	10uF/35V
21	1	C34	330pF
22	1	C35	1nF
23	1	C36	1.5nF
24	1	C39	4,7nF
25	3	DL1, DL2, DL3	VERDE
26	1	DL4	ROSSO
27	1	D1	BYQ28
28	1	D2	KBU08-J
29	1	D3	ES1J
30	1	D4	P6KE200
31	3	D5, D8, D9	ES2D/ES2G
32	1	D6	ISL9R460P2
33	2	D7, D12	BAS16H
34	1	D10	1SMB5929BT3G
35	1	D11	8K2 3W
36	1	D14	TL431SMD
37	1	D19	MURS360
38	6	FIX1, FIX2, FIX3, FIX4, FIX5, FIX6	FIX35
39	2	F1, F2	RXE300
40	1	JP1	CN16PD
41	5	J1, J2, J3, J4, J5	JSMD
42	3	L1, L2, L7	BL02
43	1	L3	TVO,4A0,0M2-A
44	1	L4	TVO,1A0,10M-A
45	2	L5, L6	742792022
46	1	OPT1	K10104X
47	1	PF1	3,15A/RIT
48	1	Q1	11N60
49	1	Q7	BC846/847
50	1	RV2	50K
51	1	R1	470H 2W

Item	Quantity	Reference	Part
52	6	R2, R3, R7, R9, R12, R15	15K0
53	2	R4, R13	22H0
54	1	R5	1M
55	1	R6	NTC10H
56	1	R14	250mA
57	3	R17, R36, R40	10K0
58	2	R18, R19	0H56
59	2	R22, R23	10H0
60	1	R24	5K60
61	1	R25	4K70
62	2	R26, R33	560H0
63	1	R28	470K0
64	1	R29	1K0
65	1	R30	39K0
66	2	R31, R45	6K80
67	1	R32	3K3
68	1	R34	56K0
69	1	R35	47K5
70	1	R46	20K0
71	1	R47	5K49
72	1	T1	TSWPS26-120W
73	1	U1	7818
74	1	U3	UC2843
75	1	U5	LF50CDT
76	1	VR1	275VAC

SLFUSRFPJ2K5C



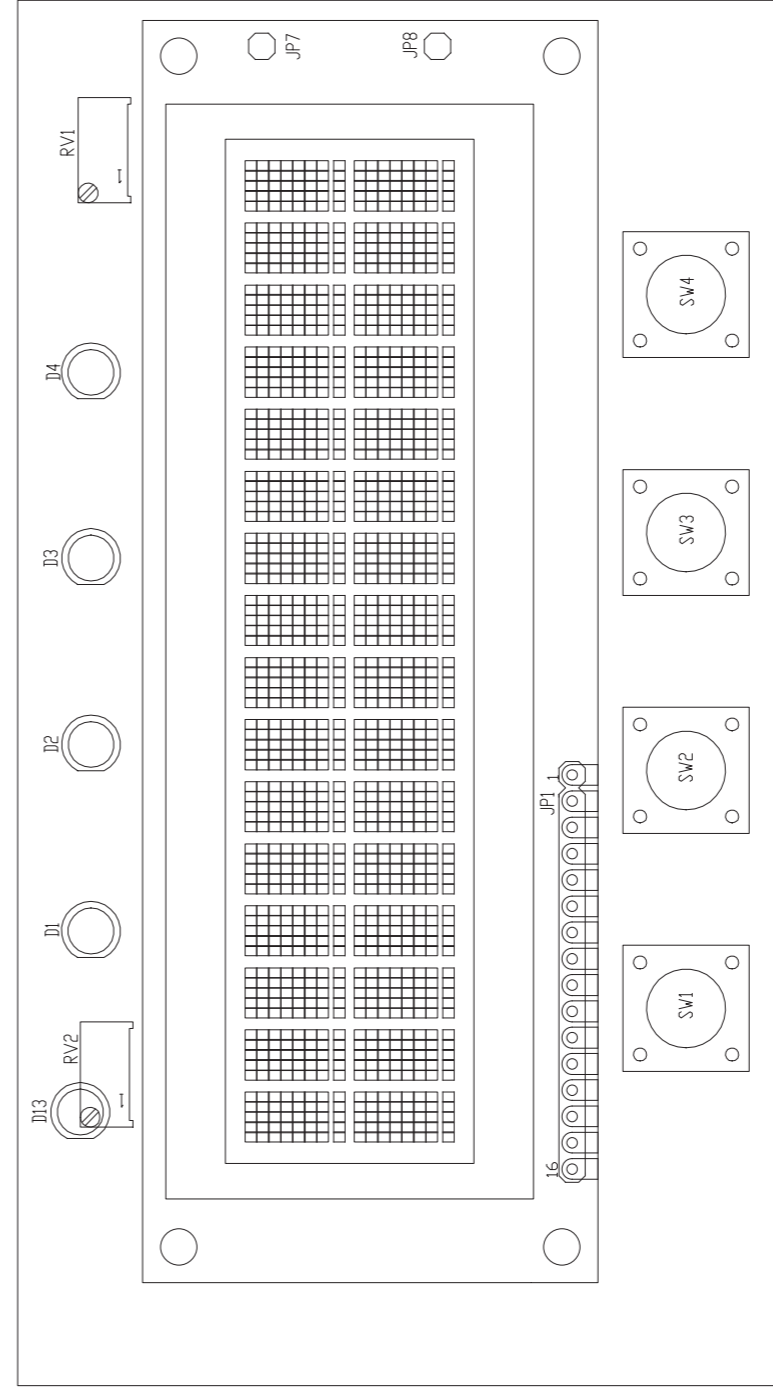
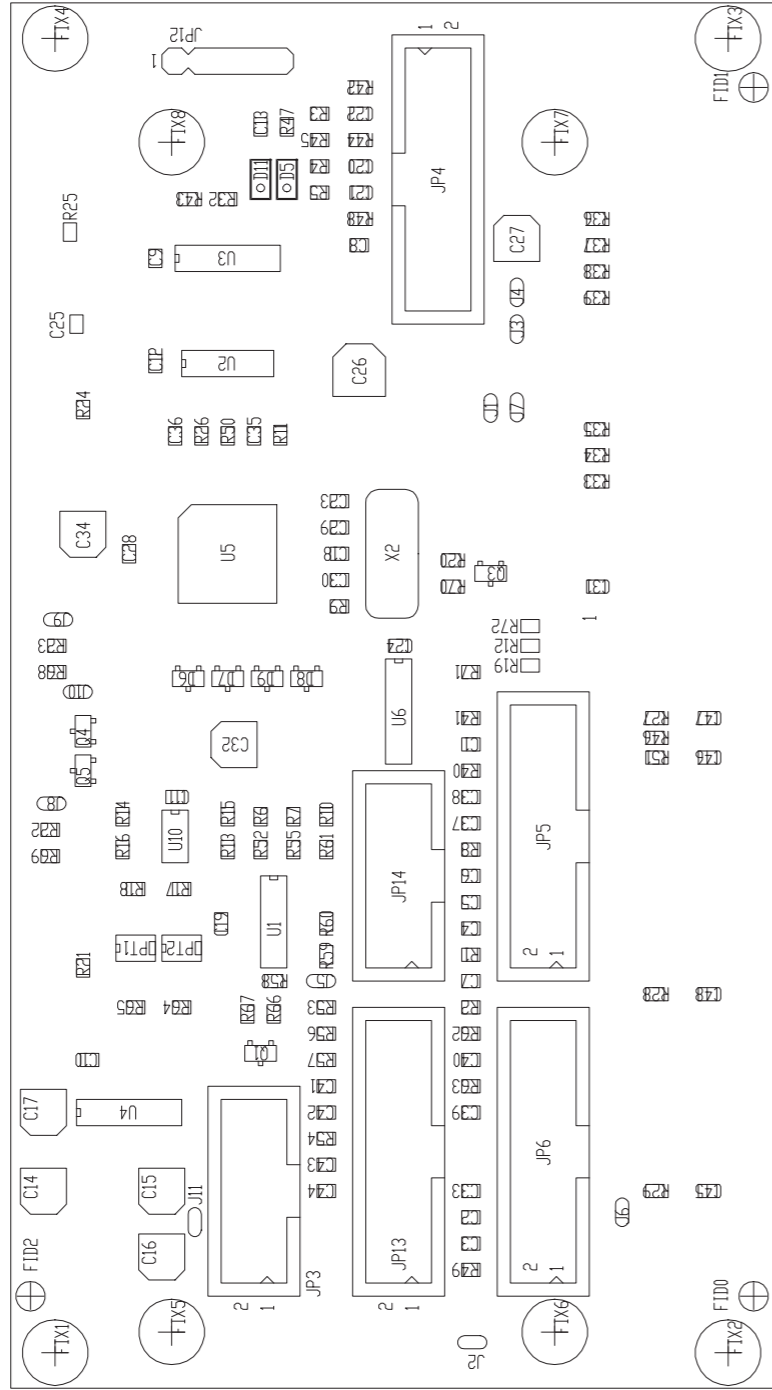
Descriptor: Fuse Board	Size: A4	Page: 1 of 1
Designer: Franceschi A.	Rev: 1.1	Date: 28/06/2012
Part No.: SLFUSRFPJ2K5C		



SLFUSRFPJ2K5C

Fuse Card SLFUSRFPJ2K5C  
 28/06/2012 Revision: 1.1  
 Franceschi A.

Item	Quantity	Reference	Part
1	5	C1, C4, C7, C13, C10	100nF
2	9	C2, C3, C5, C6, C8, C9, C11, C12, C15	4n7
3	1	C14	680 nf 63V
4	5	D1, D2, D3, D4, D5	LED-G5
5	4	F1, F2, F3, F4	10X38 25 A
6			
7	1	F5	5X20 2 A
8	4	PF1, PF2, PF3, PF4	PFS10X38PICS
9	1	PF5	PFS5X20CS
10	5	R1, R2, R3, R4, R5	10K
11	10	U1, U2, U3, U4, U5, U6, U7, U8, U9, U10	PAD
12	1	CS1	CSFUSPJ1KC-2



PRODUCT NAME : TEX-LCD, P-J-LCD, LINK, URP | PART NAME : SEM.SCH: PANEL CARD PIC18F452

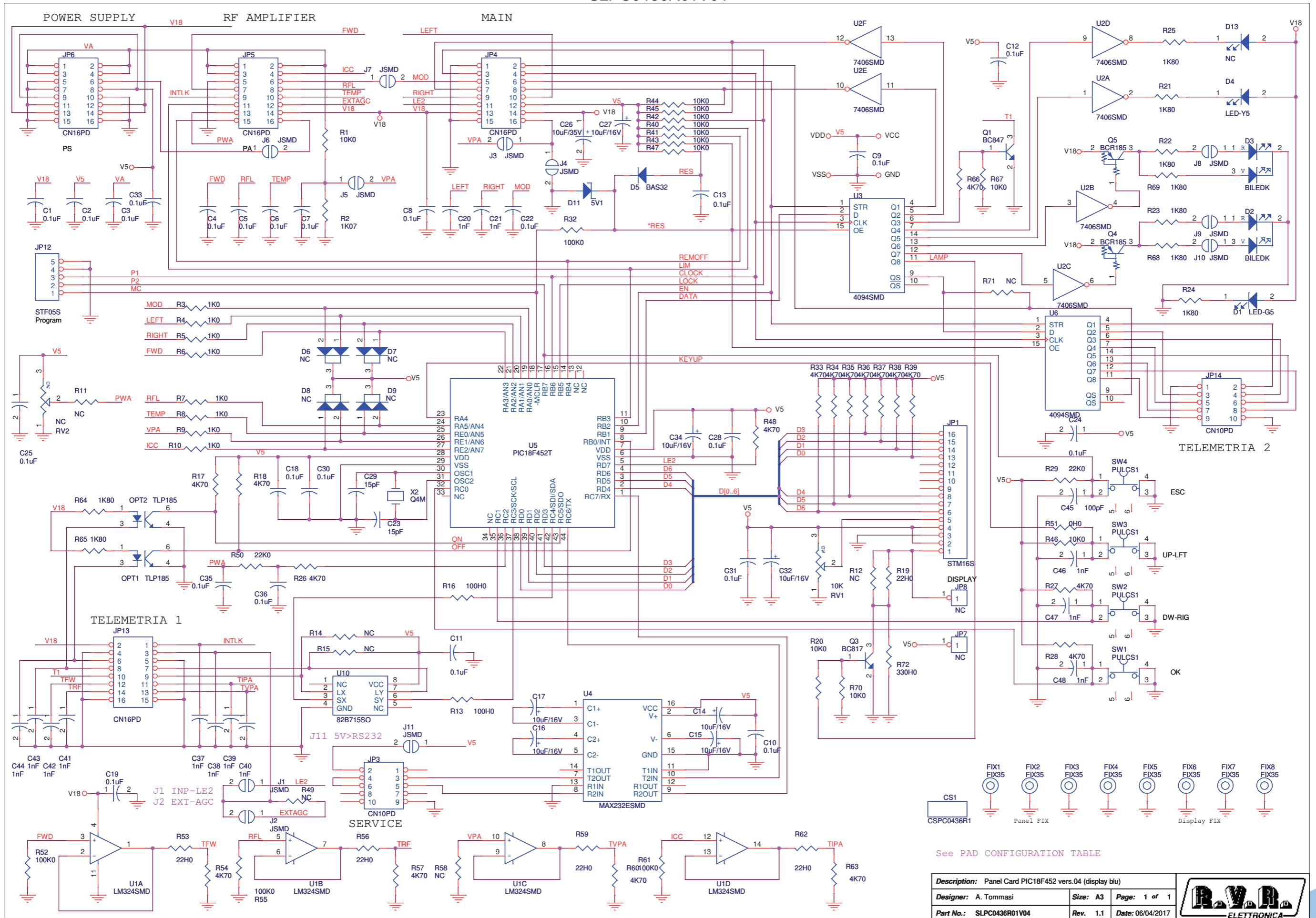
DESIGNER : A. TOMMASI

DATE : 03/09/15 | REVISION : 1.0 | SCALE : 1:1 | SIZE : A4 | PAGE : 1 | DI : 1

ARCHIVING : "RV/UT" SERVER, "RILASCIATI" FOLDER | PROJECT CODE : <>

DOCUMENT CODE : SLPC0436R01V.xx

SLPC0436R01V04



See PAD CONFIGURATION TABLE

<b>Description:</b> Panel Card PIC18F452 vers.04 (display blu)			
<b>Designer:</b> A. Tommasi	<b>Size:</b> A3	<b>Page:</b> 1 of 1	
<b>Part No.:</b> SLPC0436R01V04	<b>Rev.:</b> 1.1	<b>Date:</b> 06/04/2017	



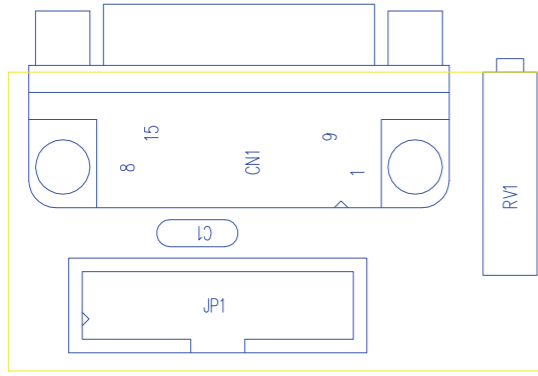
SLPC0436R01V04

Panel Card PIC18F452 vers.04 (display blu)  
 SLPC0436R01V04 Revision: 1.1  
 06/04/2017  
 A. Tommasi

Item	Quantity	Reference	Part	Description
1	1	CS1	CSPC0436R1	Circuito stampato
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	LED Verde dia. 5mm
9	2	D2,D3	BILEDK	Doppio led V-R 5mm Catodo com.
10	1	D4	LED-Y5	LED Giallo dia. 5mm
11	1	D5	BAS32	MINIMELF SMD Diode
12	4	D6,D7,D8,D9	NC	Doppio Diodo SMD SOT23
13	1	D11	5V1	MINIMELF SMD Zener Diode
14	1	D13	NC	LED Giallo dia. 5mm
15	8	FIX1,FIX2,FIX3,FIX4,FIX5, FIX6,FIX7,FIX8	FIX35	Foro fissaggio 3.5mm
16	1	JP1	STM16S	Strip femmina 16 pin
17	2	JP3,JP14	CN10PD	Connettore 10 poli Flat cs
18	4	JP4,JP5,JP6,JP13	CN16PD	Connettore 16 poli Flat cs
19	2	JP7,JP8	NC	Strip femmina 1 pin
20	1	JP12	STF05S	Strip femmina 5 pin
21	11	J1,J2,J3,J4,J5,J6,J7,J8, J9,J10,J11	JSMD	Pad SMD a saldare
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	1K07	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%



SLIN0380R01V01



DATA RILASCIO:

DIS. S.POL.  
CTR. A2  
LATO PIANO DI MONTAGGIO  
VISTA LATO COMPONENTI

REV: 03

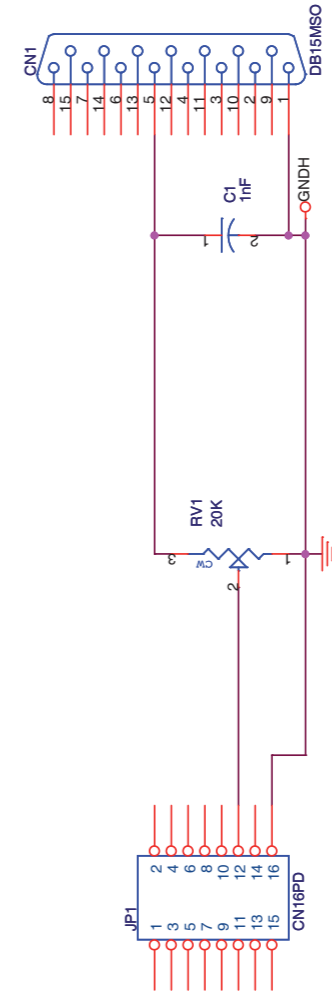
DIM.SCHEDA: VEDI QUOTE

TRATT: STANDARD COSTRUTTORE

MAT: FR4-74 1.6mm Cu 35um  
VISTA POSITIVA

CODICE  
SLIN0380R01V01

RVR ELETTRONICA S.P.A.  
SCALA 1:1



Project Name: PJ Green Line		Page: 1 of 1	Size: A4
Designer: Tommasi	Date: 06/02/2022	Project Code: RVR237	
File Location: \Pvrut\Pilasciati\	Revision: 1.0	Description: Scheda com-bus	
Folder/File: /	Approvati:	Part No.: SLIN0380R01V01	

SLIN0380R01V01

Schedsa com-bus Revised: Wednesday, November 28, 2012

SLIN0380R01V01 Revision: 1.0

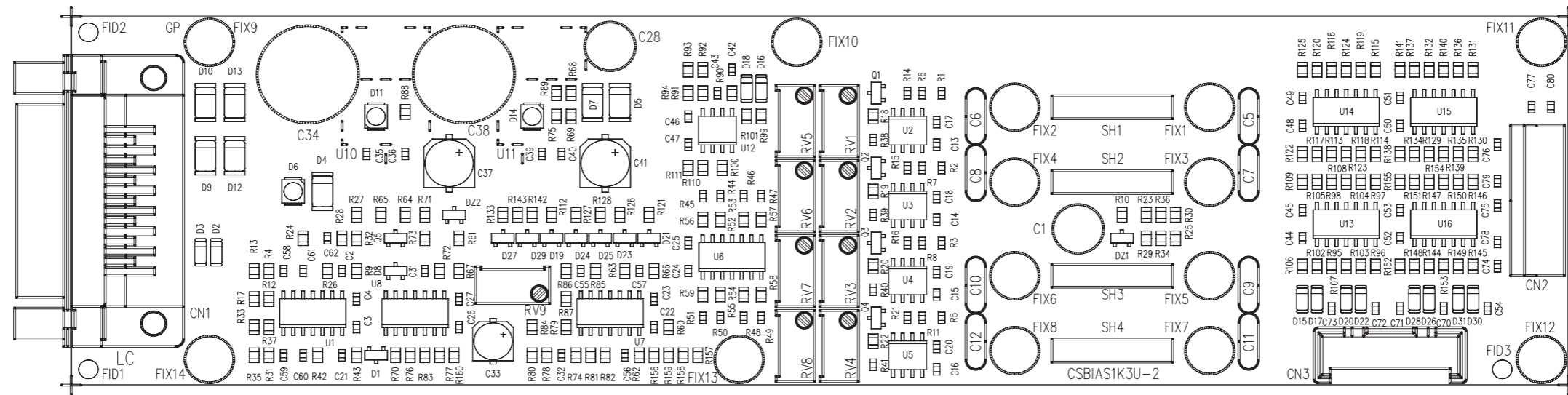
A. Tommasi

PJ Green Line

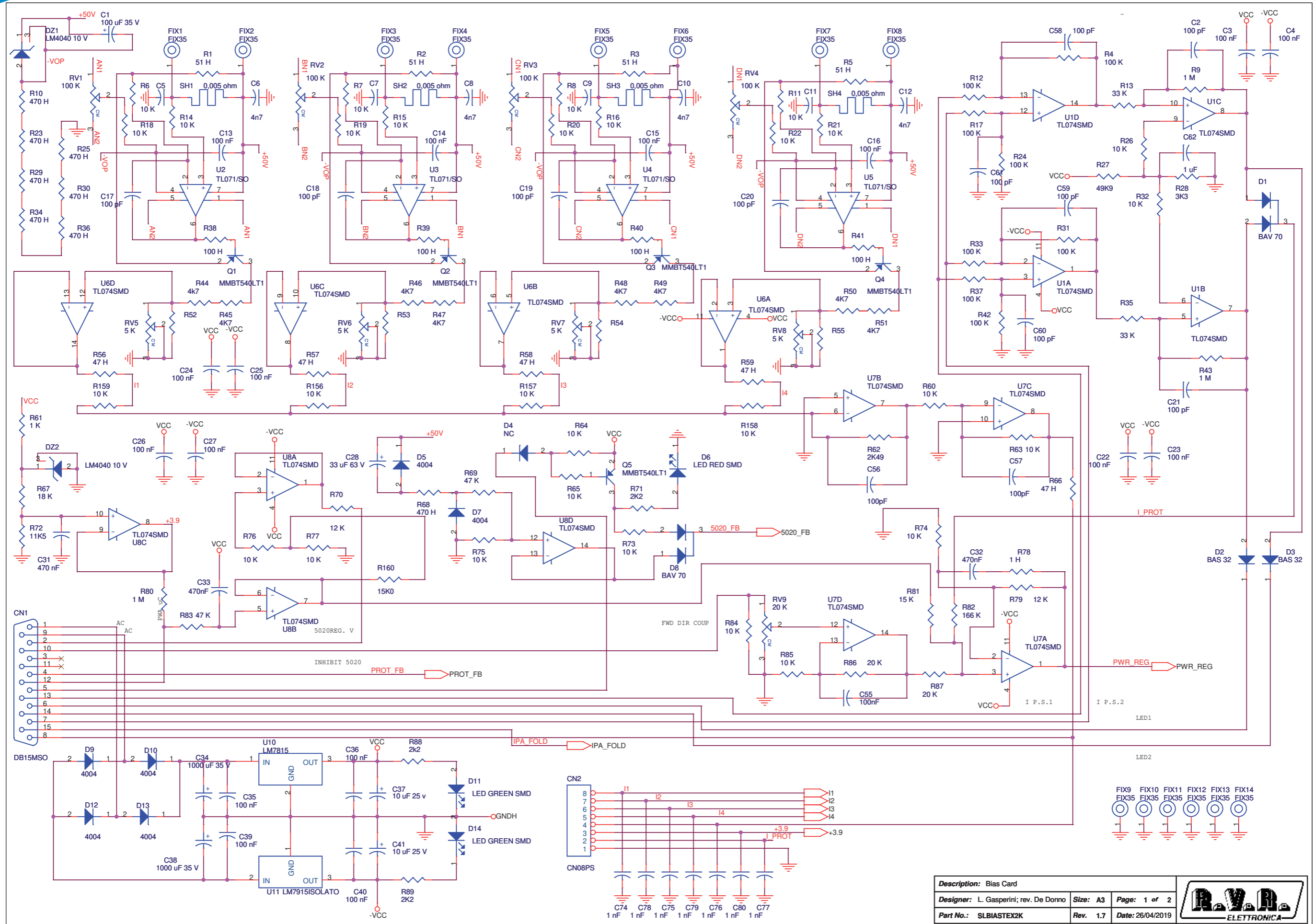
RVR237

Item	Quantity	Reference	Part	Description	Code
1	1	CN1	DB15MSO	Connettore DB15 mas. cs 90°	CNTDB15MCSA
2	1	CS1	CSIN0380R1	Circuito stampato	CSIN0380R1
3	1	C1	1nF	Cond. ceramico p 5mm	CKM102KC600P
4	1	JP1	CN16PD	Conn.M.C.S.Dritto 16P alette.	CNTMCS16A
5	1	RV1	20K	Trimmer Rg H 3006	RVT3006PK020

**SLBIAS1K3U-2**



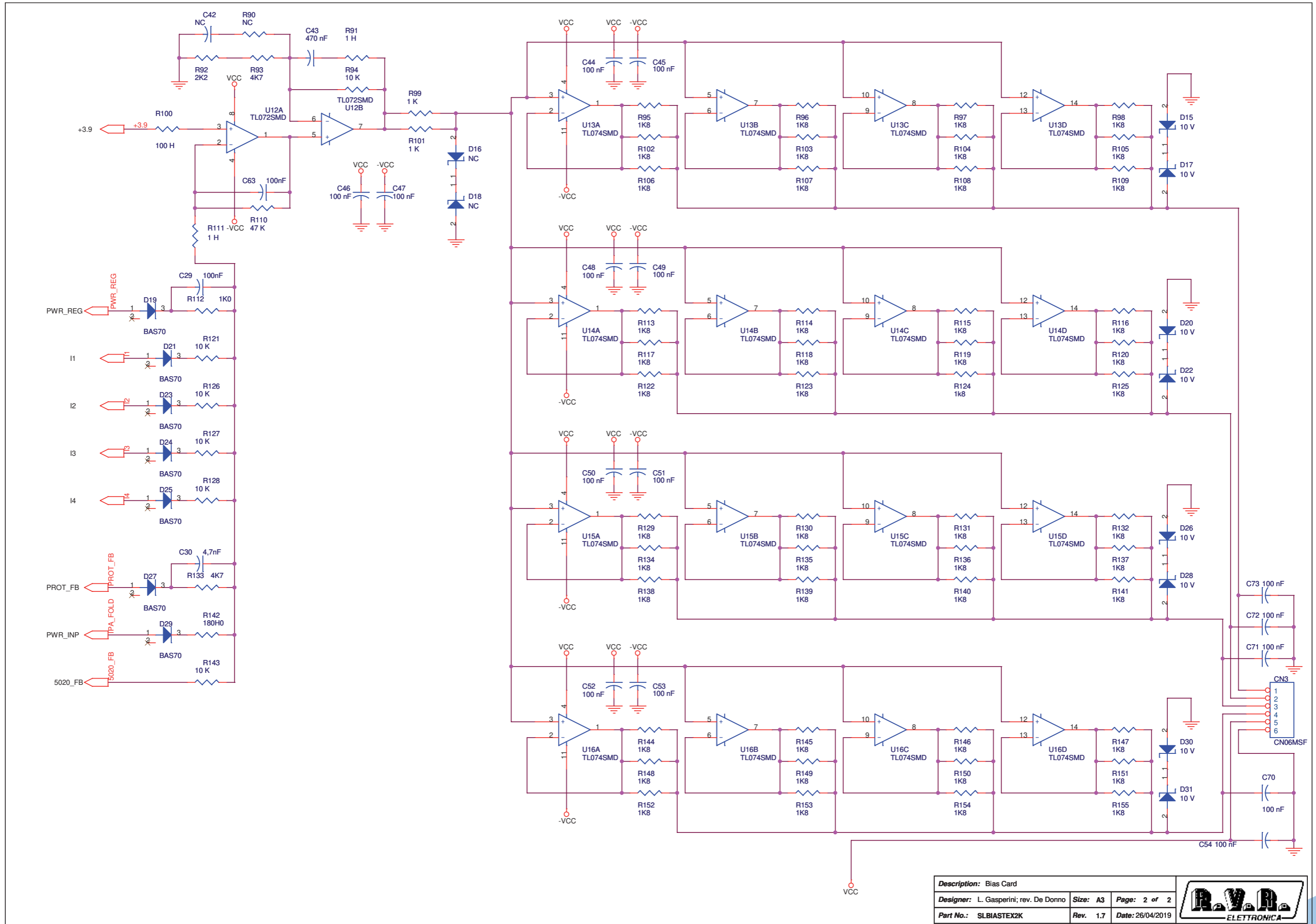
Nome Progetto: TEX1000		Pagina: 1 di 1		Size: A4
Autore: Ufficio Tecnico		Data: 22/01/04	Codice Progetto: 010	
Nome PC in Rete: \\UT_SRV\PROGETTI		Revisione: 1.2	Nome Parte: Scheda Bias TEX1000/PJ1000C	
File/Cartella: MANUALI\TEX1000\SLBIAS1K3U-2\bias1k3u-2.dwg		Autorizzazione:	Codice: SLBIAS1K3U-2	
Scala: /	Materiale: /	Trattamento: /	Profilo: /	



<b>Description:</b> Bias Card		
<b>Designer:</b> L. Gasperini; rev. De Donno	<b>Size:</b> A3	<b>Page:</b> 1 of 2
<b>Part No.:</b> SLBIASTEX2K	<b>Rev.:</b> 1.7	<b>Date:</b> 26/04/2019



**SLBIATESTX2K**



Description: Bias Card			
Designer: L. Gasperini; rev. De Donno	Size: A3	Page: 2 of 2	
Part No.: SLBIATESTX2K	Rev. 1.7	Date: 26/04/2019	

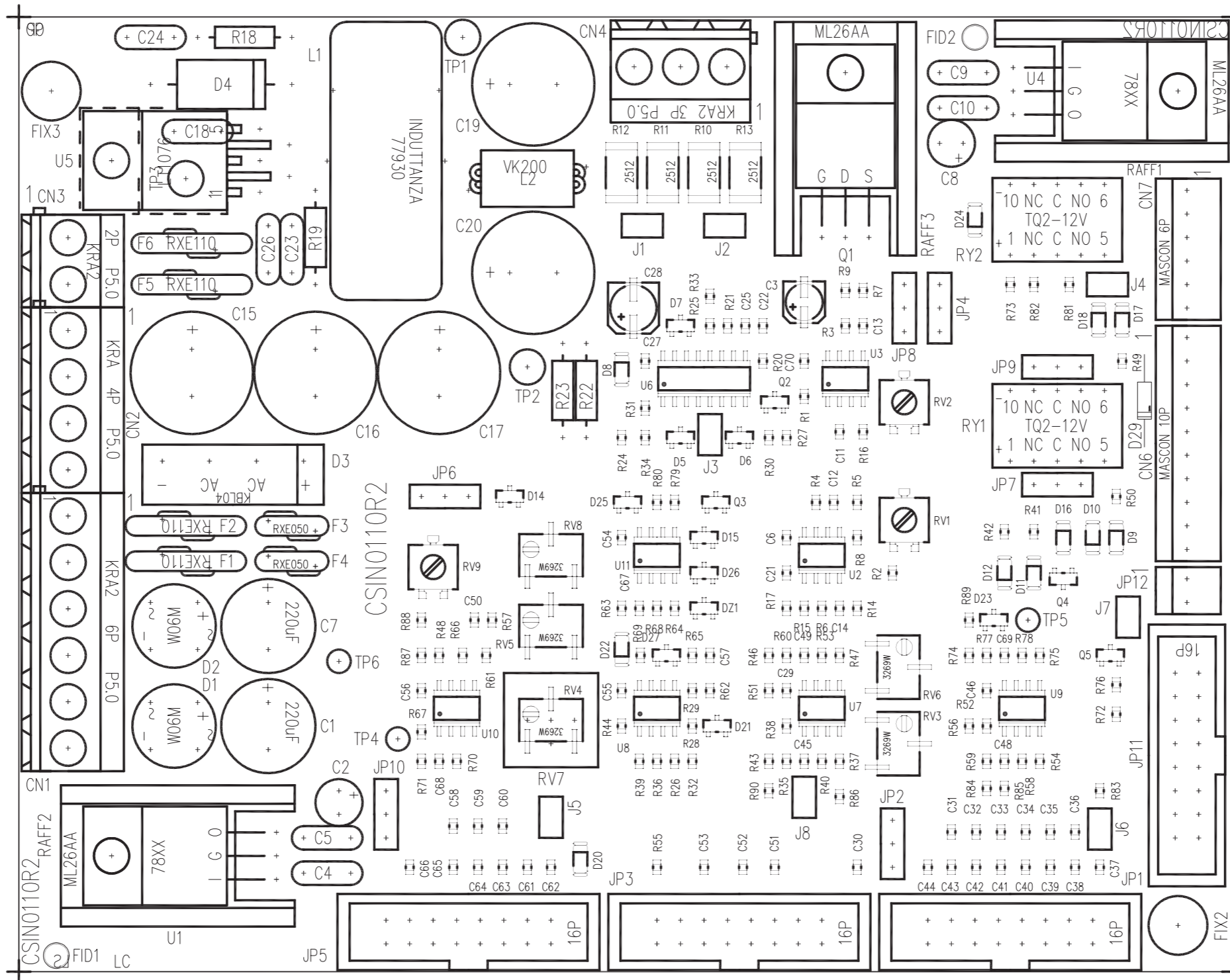
SLBIATESTX2K

BIAS Card Revised: 26/04/2019  
 SLBIATESTX2K Revision: 1.7  
 L. Gasperini; rev. De Donno

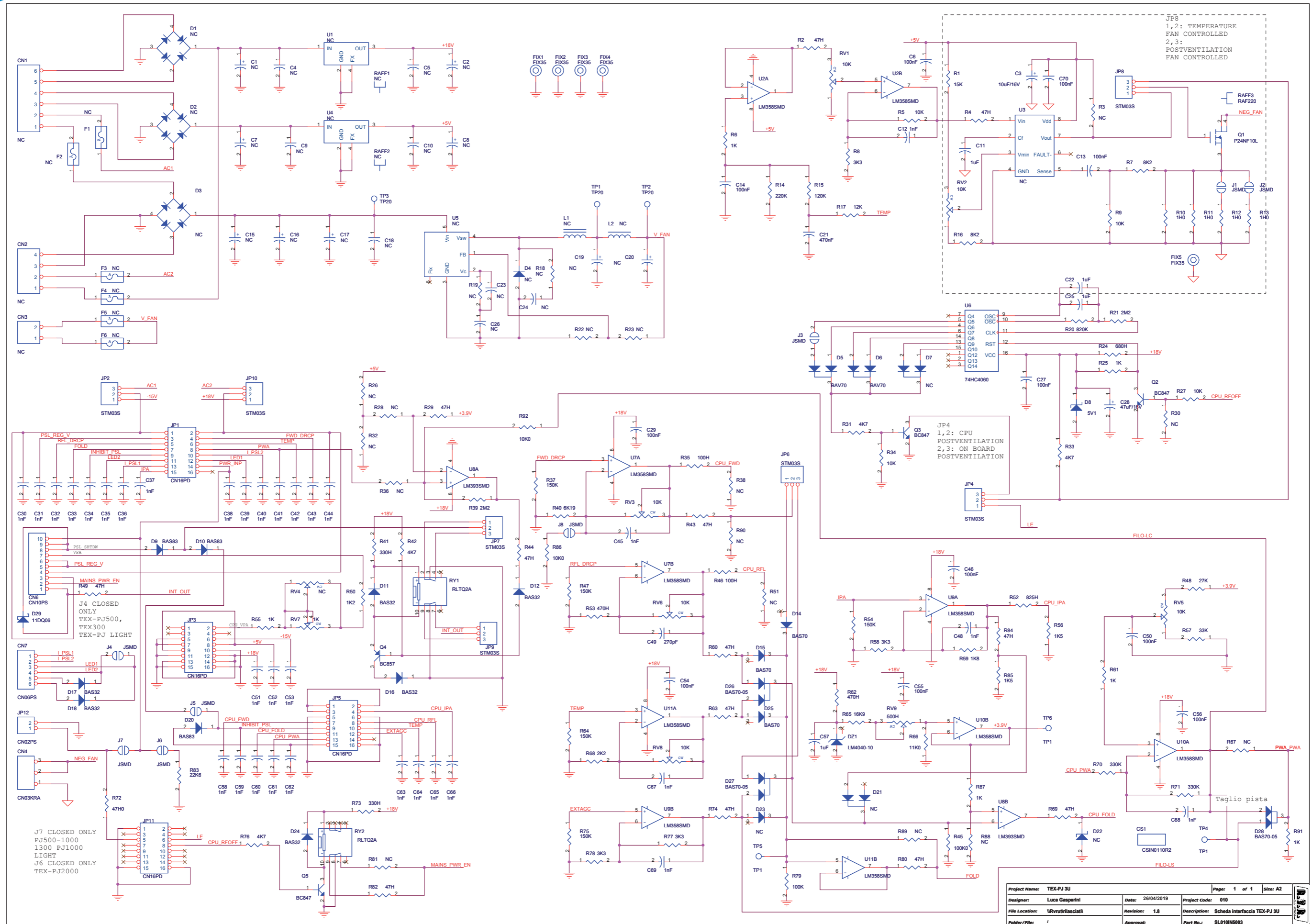
Item	Q.ty	Reference	Part
1	1	CN1	DB15MSO
2	1	CN2	CN08PS
3	1	CN3	CN06MSF
4	1	C1	100 uF 35 V
5	12	C2, C17, C18, C19, C20, C21, C56, C57, C58, C59, C60, C61	100 pF
6	34	C3, C4, C13, C14, C15, C16, C22, C23, C24, C25, C26, C27, C35, C36, C39, C40, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C70, C71, C72, C73, C55, C29, C63	100 nF
7	8	C5, C6, C7, C8, C9, C10, C11, C12	4n7
8	1	C30	4n7 0805
9	1	C28	33 uF 63 V
10	3	C31, C43, C32	470 nF
11	2	C37, C41	10 uF 25 V
12	1	C33	470nF
13	2	C34, C38	1000 uF 35 V
14	7	C42, R90, R142, D16, D18, D4	NC
15	7	C74, C75, C76, C77, C78, C79, C80	1 nF
16	1	C62	1 uF
17	2	DZ2, DZ1	LM4040 10 V
18	2	D8, D1	BAV 70
19	2	D3, D2	BAS 32
20	6	D5, D7, D9, D10, D12, D13	4004
21	3	D6	LED SMD RED 3X2,6 MM
22		D11, D14	LED SMD GREEN 3X2,6 MM
23	8	D15, D17, D20, D22, D26, D28, D30, D31	10 V
24	7	D19, D21, D23, D24, D25, D27, D29	BAS70
25	14	FIX1, FIX2, FIX3, FIX4, FIX5, FIX6, FIX7, FIX8, FIX9, FIX10, FIX11, FIX12, FIX13, FIX14	FIX35
26	5	Q1, Q2, Q3, Q4, Q5	MMBT540LT1
27	4	RV1, RV2, RV3, RV4	100K
28	4	RV5, RV6, RV7, RV8	5K
29	1	RV9	20K
30	4	R1, R2, R3, R5	51 H
31	8	R4, R12, R17, R24, R31, R33, R37, R42	100 K
32	35	R6, R7, R8, R11, R14, R15, R16, R18, R19, R20, R21, R22, R26, R32, R60, R63, R64, R65, R73, R74, R75, R76, R77, R84, R85, R94, R121, R126, R127, R128, R143, R156, R157, R158, R159	10 K
33	3	R9, R43, R80	1 M
34	8	R10, R23, R25, R29, R30, R34, R36, R68	470 H
35	2	R35, R13	33 K
36	1	R27	49K9
37	1	R28	3K3
38	5	R38, R39, R40, R41, R100	100 H
39	14	R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R93, R133	4K7
40	5	R56, R57, R58, R59, R66	47 H
41	4	R61, R99, R101, R112	1 K
42	1	R62	2K49
43	1	R67	18 K
44	3	R69, R83, R110	47 K
45	2	R70, R79	12 K
46	4	R71, R88, R89, R92	2K2
47	1	R72	11K5
48	3	R78, R91, R111	1 H
49	2	R81, R160	15 K
50	1	R82	165 K

Item	Q.ty	Reference	Part
51	2	R86, R87	20 K
52	48	R95, R96, R97, R98, R102, R103, R104, R105, R106, R107, R108, R109, R113, R114, R115, R116, R117, R118, R119, R120, R122, R123, R124, R125, R129, R130, R131, R132, R134, R135, R136, R137, R138, R139, R140, R141, R144, R145, R146, R147, R148, R149, R150, R151, R152, R153, R154, R155	1K8
53	1	R142	180 H
54	4	SH1, SH2, SH3, SH4	0,005 ohm
55	8	U1, U6, U7, U8, U13, U14, U15, U16	TL074SMD
56	4	U2, U3, U4, U5	TL071/SO
57	1	U10	LM7815
58	1	U11	LM7912ISOLATO
59	1	U12	TL072SMD

SL010IN5003



	PRODUCT NAME: TEX-LCD	PART NAME: INTERFACE CARD
	DESIGNER: L. GASPERINI	DATE: 29/07/2015   REVISION: 1.1   SCALE: 2:1   SIZE: A3   PAGE: 1 DI 1
ARCHIVING: "RVRUT" SERVER, "RILASCIATI" FOLDER	PROJECT CODE: 010	DOCUMENT CODE: SLO10IN5003



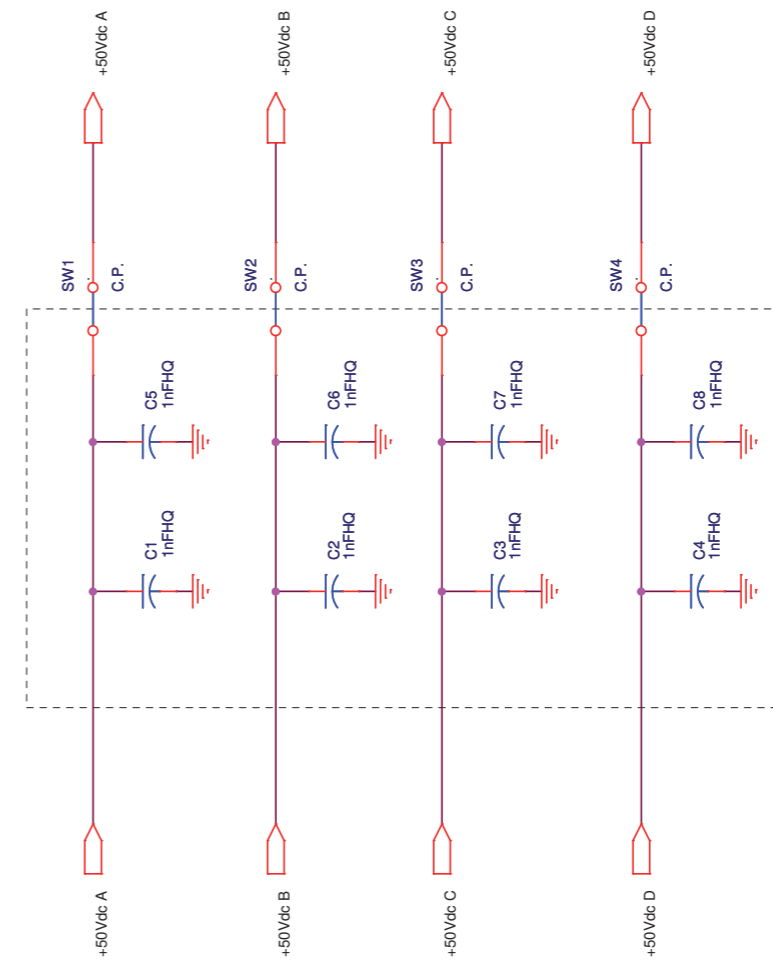
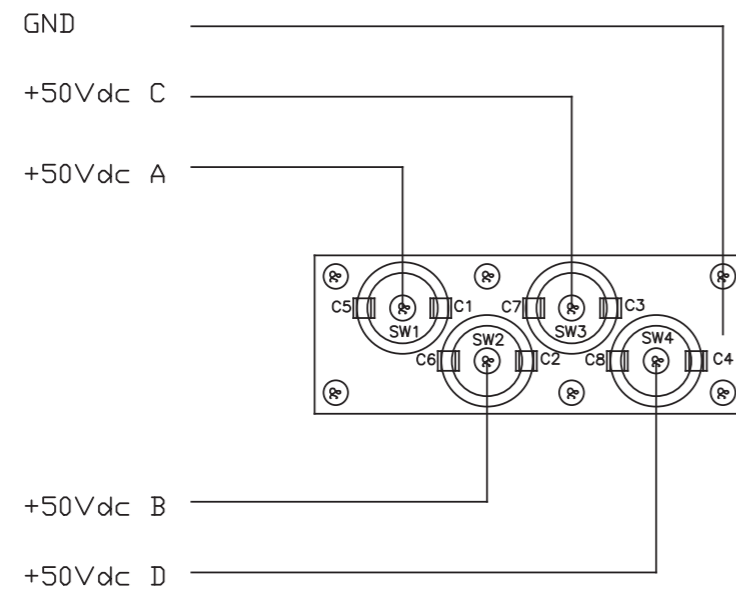


SL010IN5003

Scheda interfaccia TEX-PJ 3U Revised: 26/04/2019  
 SL010IN5003 Revision: 1.8  
 Luca Gasperini  
 TEX-PJ 3U

Item	Quantity	Reference	Part	Description			
1	1	CN1	NC	Conn. tipo KRA a 6 poli			
2	1	CN2	NC	Conn. tipo KRA a 4 poli			
3	1	CN3	NC	Conn. tipo KRA a 2 poli			
4	1	CN4	CN03KRA	Conn. tipo KRA a 3 poli			
5	1	CN6	CN10PS	Connettore 10 poli Mascon			
6	1	CN7	CN06PS	Connettore 6 poli Mascon			
7	1	CS1	CSIN0110R2	Circuito stampato			
8	2	C1,C7	NC	Cond. Elettr. Dia 10 P5.08			
9	2	C2,C8	NC	Cond. Elettr. Dia 5 P2.54			
10	1	C3	10uF/16V	Cond. Elettr. SMD d. 4mm			
11	8	C4,C5,C9,C10,C18,C23,C24,C26	NC	Cond. ceramico multistrato p 5mm			
12	11	C6,C13,C14,C27,C29,C46,C50,C54,C55,C56,C70	100nF	Cond. SMD 0805			
13	4	C11,C22,C25,C57	1uF	Cond. SMD 0805			
14	33	C12,C30,C31,C32,C33,C34,C35,C36,C37,C38,C39,C40,C41,C42,C43,C44,C45,C48,C51,C52,C53,C58,C59,C60,C61,C62,C63,C64,C65,C66,C67,C68,C69	1nF	Cond. SMD 0805			
15	5	C15,C16,C17,C19,C20	NC	Cond. Elettr. Dia 13 P5.08			
16	1	C21	470nF	Cond. SMD 0805			
17	1	C28	47uF/16V	Cond. Elettr. SMD d. 5mm			
18	1	C49	270pF	Cond. SMD 0805			
19	1	DZ1	LM4040-10	Diode Zener SMD SOT23			
20	2	D1,D2	NC	Ponte diodi tondi W			
21	1	D3	NC	Ponte diodi KBL/KBU			
22	1	D4	NC	Diode plastico P600			
23	2	D5,D6	BAV70	Doppio Diode SMD SOT23			
24	1	D8	5V1	MINIMELF SMD Zener Diode			
25	3	D9,D10,D20	BAS83	MINIMELF SMD Diode			
26	6	D11,D12,D16,D17,D18,D24	BAS32	MINIMELF SMD Diode			
27	3	D14,D15,D25	BAS70	Diode SMD SOT23			
28	3	D26,D27,D28	BAS70-05	Doppio Diode SMD SOT23			
29	1	D22	NC	MINIMELF SMD Zener Diode			
30	3	D23, D7, D21	NC	Diode SMD SOT23			
31	1	D29	11DQ06	Diode Schottky			
32	5	FIX1, FIX2, FIX3, FIX4, FIX5	FIX35	Foro fissaggio 3.5mm			
33	1	F1	NC	Fusibile autorip. 13mm			
34	5	F2,F3,F4,F5,F6	NC	Fusibile autorip. 7mm			
35	4	JP1,JP3,JP5,JP11	CN16PD	Conn.M.C.S.Dritto 16P alette			
36	7	JP2,JP4,JP6,JP7,JP8,JP9,JP10	STM03S	Strip maschio 3 pin			
37	1	JP12	CN02PS	Connettore 2 poli Mascon			
38	8	J1,J2,J3,J4,J5,J6,J7,J8	JSMD	Pad SMD a saldare			
39	1	L1	NC	Induttanza toroidale			
40	1	L2	NC	Induttanza cilindrica VK200			
41	1	Q1	P24NF10L	Trans. FET N TO220			
42	3	Q2,Q3,Q5	BC847	Trans. NPN SOT23			
43	1	Q4	BC857	Trans. PNP SOT23			
44	2	RAFF1,RAFF2	NC	Dissipatore TO220			
45	1	RAFF3	RAF220	Dissipatore TO220			
46	2	RV1,RV2	10K	Trimmer SMD			
47	4	RV3,RV5,RV6,RV8	10K	Trimm. multi SMD 3269			
48	1	RV4	NC	Trimm. multi SMD 3269			
49	1	RV7	1K	Trimmer Rg V 3386P			
50	1	RV9	500H	Trimmer SMD			
51	2	RY1,RY2	RLTQ2A	Rele' TQ2			
52	1	R1	15K	Res. SMD 0805			
53	14	R2,R4,R29,R43,R44,R49,R60,R63,R69,R72,R74,R80,R82,R84	47H	Res. SMD 0805			
54	13	R3,R26,R28,R30,R32,R36,R38,R51,R67,R81,R88,R89,R90	NC	Res. SMD 0805			
55	6	R5,R9,R27,R34,R86,R92	10K	Res. SMD 0805			
56	6	R6,R25,R55,R61,R87,R91	1K	Res. SMD 0805			
57	2	R7,R16	8K2	Res. SMD 0805			
58	4	R8,R58,R77,R78	3K3	Res. SMD 0805			
59	4	R10,R11,R12,R13	1H0	Res. SMD 2512 1%			
60	1	R14	220K	Res. SMD 0805			
61	1	R15	120K	Res. SMD 0805			
62	1	R17	12K	Res. SMD 0805			
63	4	R18,R19,R22,R23	NC	Res. 1/4W			
64	1	R20	820K	Res. SMD 0805			
65	2	R21,R39	2M2	Res. SMD 0805			
66	1	R24	680H	Res. SMD 0805			
67	4	R31,R33,R42,R76	4K7	Res. SMD 0805			
68	2	R35,R46	100H	Res. SMD 0805			
69	5	R37,R47,R54,R64,R75	150K	Res. SMD 0805			
70	1	R40	6K19	Res. SMD 0805			
71	2	R41,R73	330H	Res. SMD 0805			
72	2	R45,R79	100K	Res. SMD 0805			
73	1	R48	27K	Res. SMD 0805			
74	1	R50	1K2	Res. SMD 0805			
75	1	R52	825H	Res. SMD 0805			
76	2	R53,R62	470H	Res. SMD 0805			
77	2	R56,R85	1K5	Res. SMD 0805			
78	1	R57	33K	Res. SMD 0805			
79	1	R59	1K8	Res. SMD 0805			
80	1	R65	16K9	Res. SMD 0805			
81	1	R66	11K0	Res. SMD 0805			
82	1	R68	2K2	Res. SMD 0805			
83	2	R70,R71	330K	Res. SMD 0805			
84	1	R83	22K6	Res. SMD 0805			
85	3	TP1,TP2,TP3	TP20	Foro dia. 2mm			
86	3	TP4,TP5,TP6	TP1	Test point			
87	2	U1,U4	NC	Stabilizzatore TO220F Isolato			
88	5	U2,U7,U9,U10,U11	LM358SMD	Dual Op. SMD SO8			
89	1	U3	NC	Fan controller SO8			
90	1	U5	NC	Regolatore switching			
91	1	U6	74HC4060	Divider SMD SO16			
92	1	U8	LM393SMD	Dual Op. SMD SO8			
93	7	Ponticello per connettore strip da CS	JUMPER	JUMPER			

SLFILPJ1KM



Description: Passthrough Card	
Designer: Franceschi A.	Page: 1 of 1
Part No.: SLFILPJ1KM	Rev. 2.1
	Date: 17/06/2013

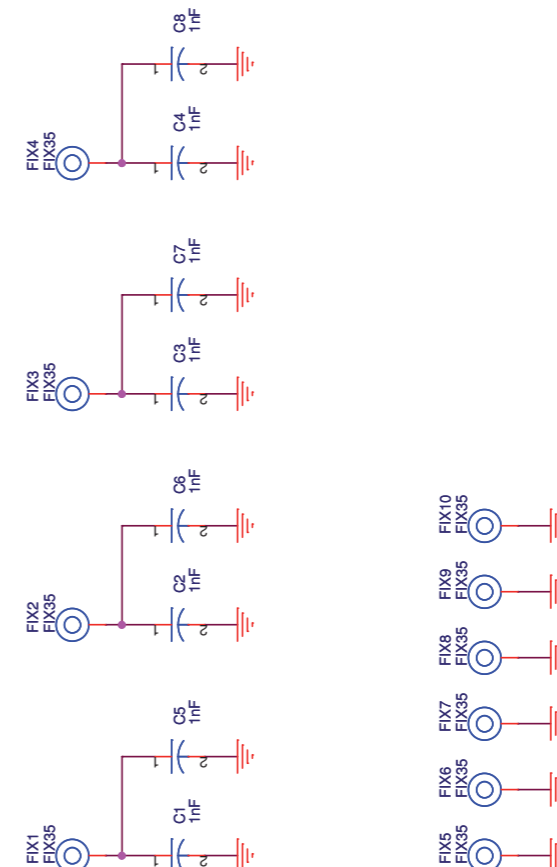
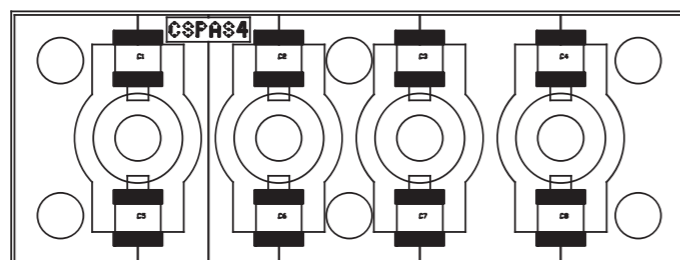
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	DESIGNER : FRANCESCHI A.	DATE : 17/06/13	REVISION : 1.0	SCALE : 1:1	SIZE : A4	PAGE : 1 DI 1
ARCHIVING : 'RVRUT' SERVER, 'RILASCIATI' FOLDER	PROJECT CODE : 252	DOCUMENT CODE : SLFILPJ1KM				

SLFILPJ1KM

Passthrough Card Revised: 17/06/2013  
SLFILPJ1KM Revision: 2.1  
Franceschi A.

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

SLFIPAS4R01V01



Description: PASS THROUGH FILTER	Size: A4	Page: 1 of 1
	Designer: G. DE DONNO	Date: 02/10/2017
	Part No.: SLFIPAS4R01V01	Rev. 1.0

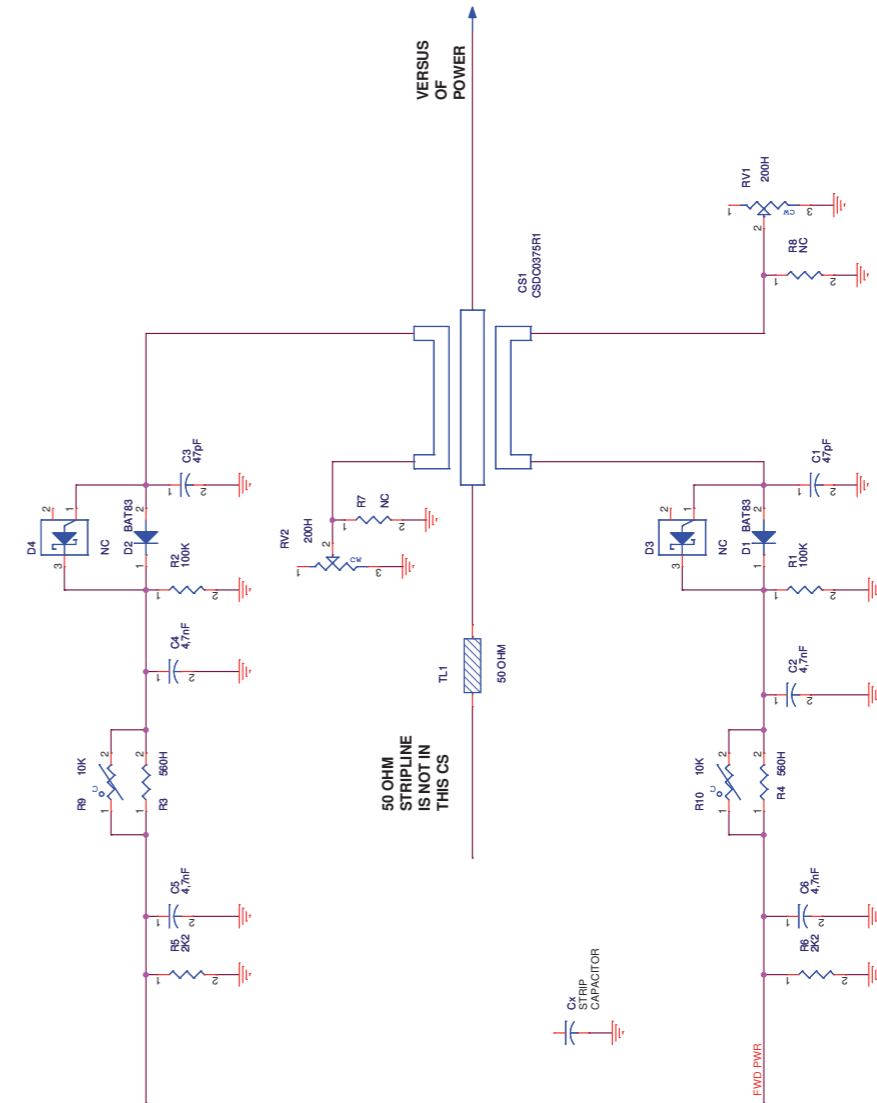
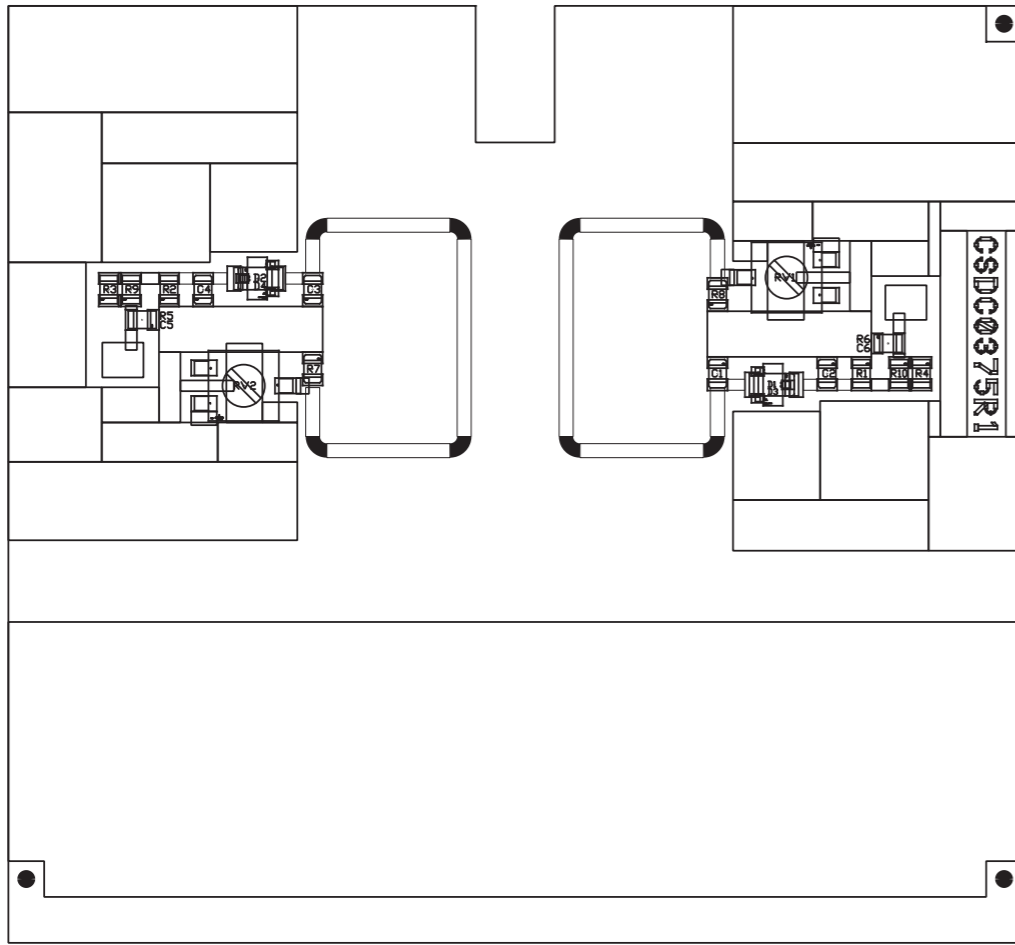
	PRODUCT NAME : TEX-LCD	PART NAME : PASS THROUGH FILTER			
	DESIGNER : G. DE DONNO	DATE : 02/10/17	REVISION : 1.0	SCALE : 2:1	SIZE : A4
ARCHIVING : 'RVRUT' SERVER, 'RILASCIATI' FOLDER	PROJECT CODE : <	DOCUMENT CODE : SLFIPAS4R01V01			

**SLFIPAS4R01V01**

PASS THROUGH FILTER Revised: 02/10/2017  
 SLFIPAS4R01V01 Revision: 1.0  
 G. DE DONNO

Item	Quantity	Reference	Part
1	1	CS1	CSPAS4 Circuito stampato
2	8	C1, C2, C3, C4, C5, C6, C7, C8	1nF Cond. SMD 1212 HQ
3	16	FIX1, FIX2, FIX3, FIX4, FIX5, FIX6, FIX7, FIX8, FIX9, FIX10	FIX35 Foro fissaggio 3.5mm

SLDC0375R01V01



Description: Directional Coupler  
 Designer: Franceschi A.  
 Part No.: SLDC0375R01V01  
 Size: A3  
 Page: 1 of 1  
 Rev.: 1.1  
 Date: 03/10/2019



PRODUCT NAME : TEX-LCD GREEN LINE  
 PART NAME : DIRECTIONAL COUPLER  
 DESIGNER : FRANCESCHI A.  
 DATE : 03/10/19 REVISION : 1.2 SCALE : 2:1 SIZE : A4 PAGE : 1 DI 1

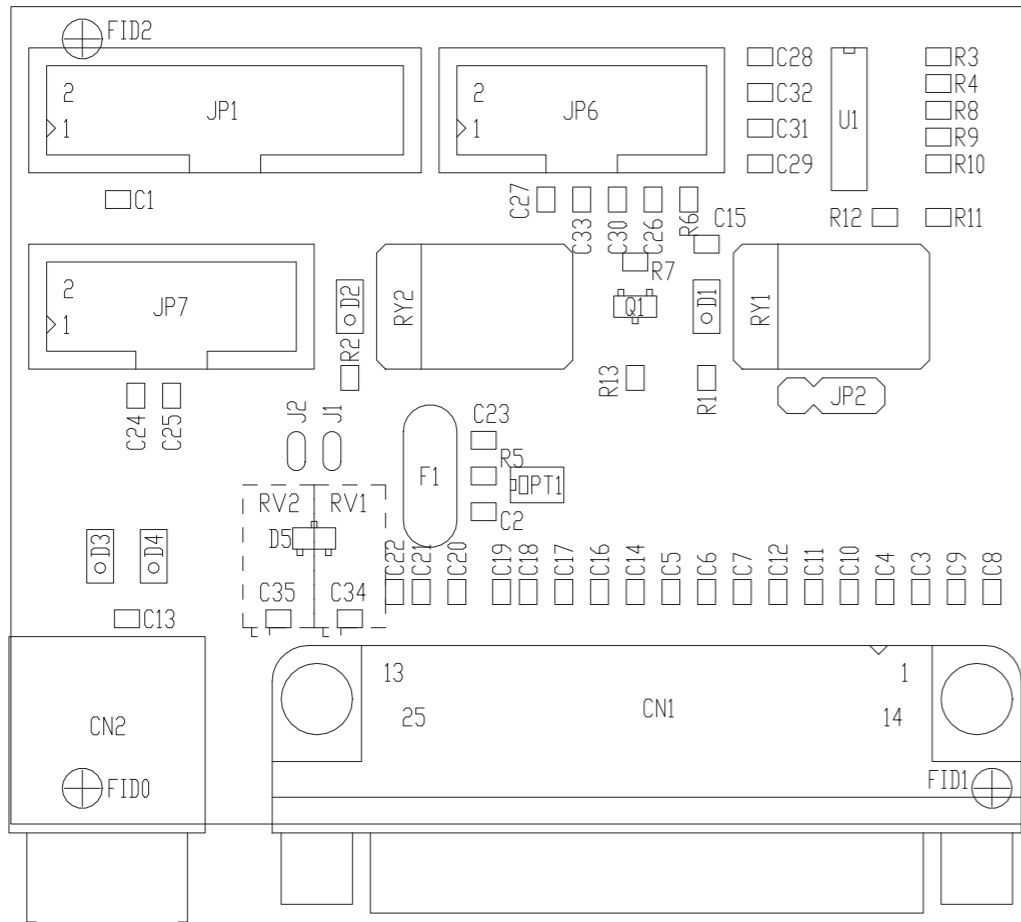
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SLDC0375R01V01

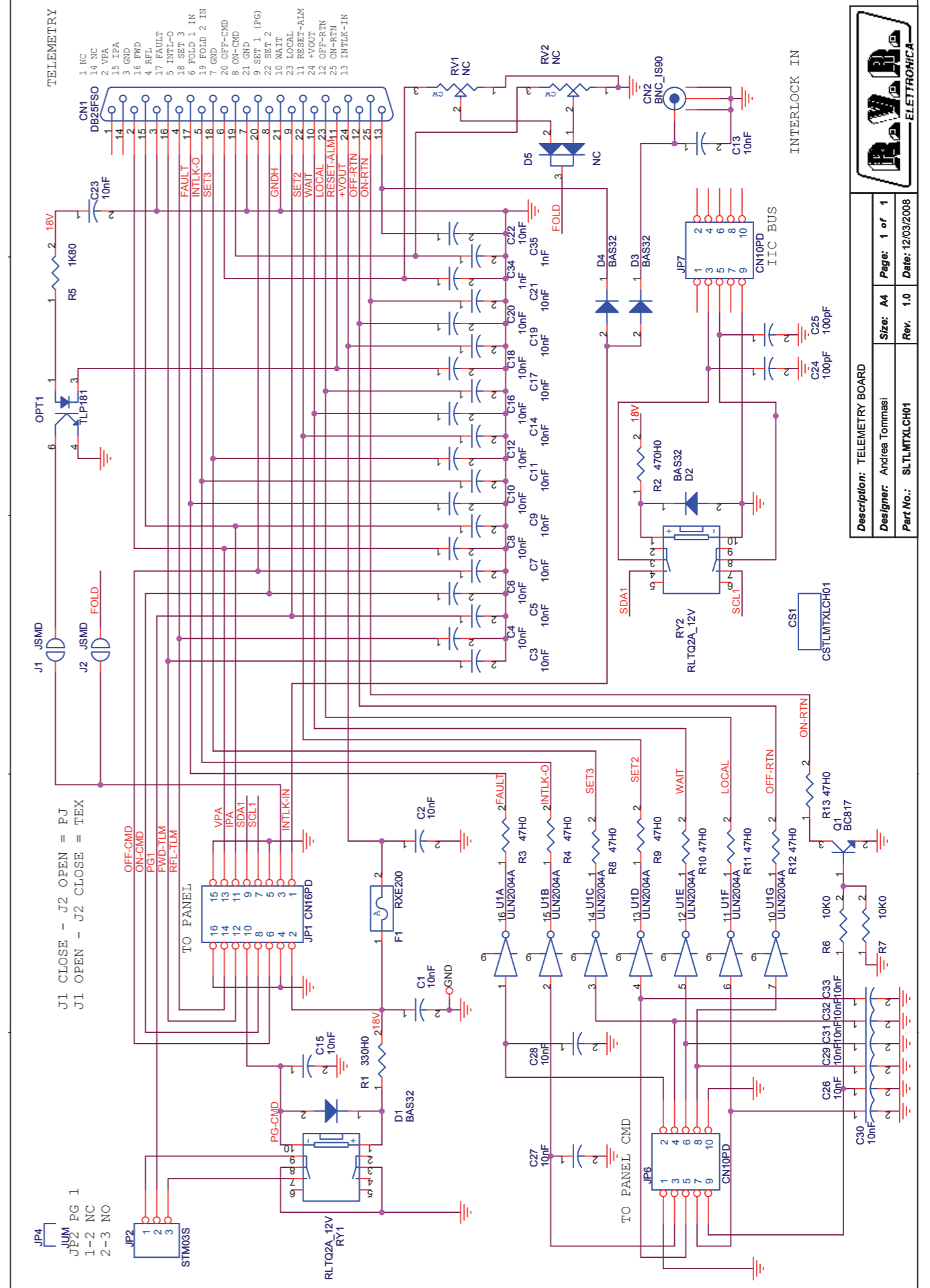
DIRECTIONAL COUPLER Revised: 03/10/2019  
 SLDC0375R01V01 Revision: 1.2  
 Franceschi A.

Item	Quantity	Reference	Part	{description}
1	1	CS1	CSDC0375R1	
2	1	Cx	27pFTFL	
3	2	C3, C1	47pF	Cond. SMD 0805
4	4	C2, C4, C5, C6	4,7nF	Cond. SMD 0805
5	2	D3, D4	NC	
6	2	D1, D2	BAT83	MINIMELF Diode
7	2	RV2, RV1	200H	Trimmer SMD
8	2	R1, R2	100K	Res. SMD 0805
9	2	R3, R4	560H	Res. SMD 0805
10	2	R5, R6	2K2	Res. SMD 0805
11	2	R9, R10	10K	Res. NTC SMD 0805
12	2	R7, R8	NC	Res. SMD 0805
13	1	TL1	50 OHM	Linea strip CS

SLTLMTXLCH01



	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 : 'RVVUT' SERVER, 'RILASCIATI' FOLDER	PROJECT CODE : 123	DOCUMENT CODE : PSL300



Description: TELEMETRY BOARD	Size: A4	Pages: 1 of 1
Designer: Andrea Tommasi	Rev: 1.0	Date: 12/03/2008
Part No.: SLTLMTXLCH01		



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	Connettore DB25 femm. cs 90°
2	1	CN2	BNC_IS90	Connettore BNC metallico 90°
3	1	CS1	CSTLMTXLCH01	Circuito stampato
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	Doppio Diodo SMD SOT23
9	1	F1	RXE200	Fusibile autorip. 7mm
10	1	JP1	CN16PD	Connettore 16 poli Flat cs
11	1	JP2	STM03S	Strip maschio 3 pin
12	1	JP4	JUM	Ponticello Jumper
13	2	JP6,JP7	CN10PD	Connettore 10 poli Flat cs
14	2	J1,J2	JSMD	Pad SMD a saldare
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