PJ1002C-LCD

TECHNICAL ANNEX

VOLUME2

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

BROADCAST EQUIPMENT

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

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

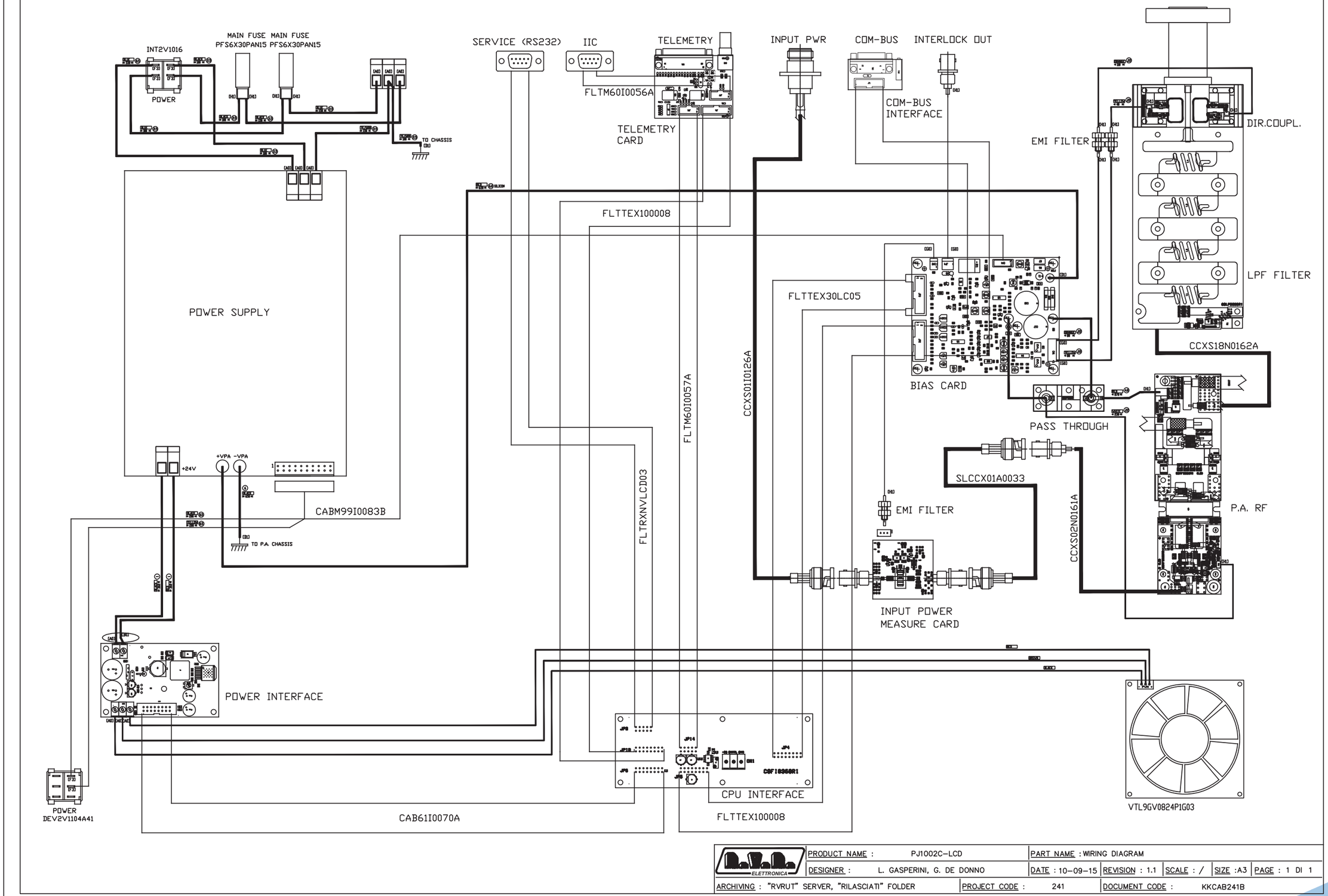
Questa parte del manuale contiene i dettagli tecnici riguardanti la costruzione delle singole schede componenti il PJ1002C-LCD. L'appendice è composta dalle seguenti sezioni:

This part of the manual contains the technical details about the different Cards of the PJ1002C-LCD. This appendix is composed of the following sections:

Document History

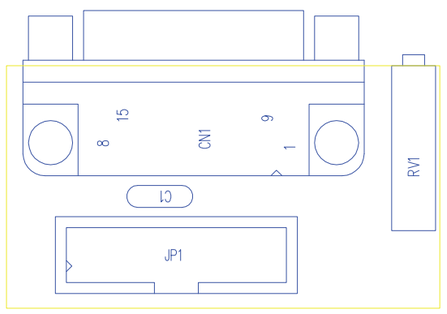
Date	Version	Reason	Code	Editor
23/10/2015	1.0	First Release	/	J.H. Berti

KKCAB241B



ELETTRONICA	PRODUCT NAME : PJ1002C-LCD			PART NAME : WIRING DIAGRAM		
	DESIGNER : L. GASPERINI, G. DE DONNO		DATE : 10-09-15	REVISION : 1.1	SCALE : /	SIZE : A3	PAGE : 1 DI 1
	ARCHIVING : "RVRUT" SERVER, "RILASCIATI" FOLDER	PROJECT CODE : 241		DOCUMENT CODE : KKCAB241B		

SLIN0380R01V01

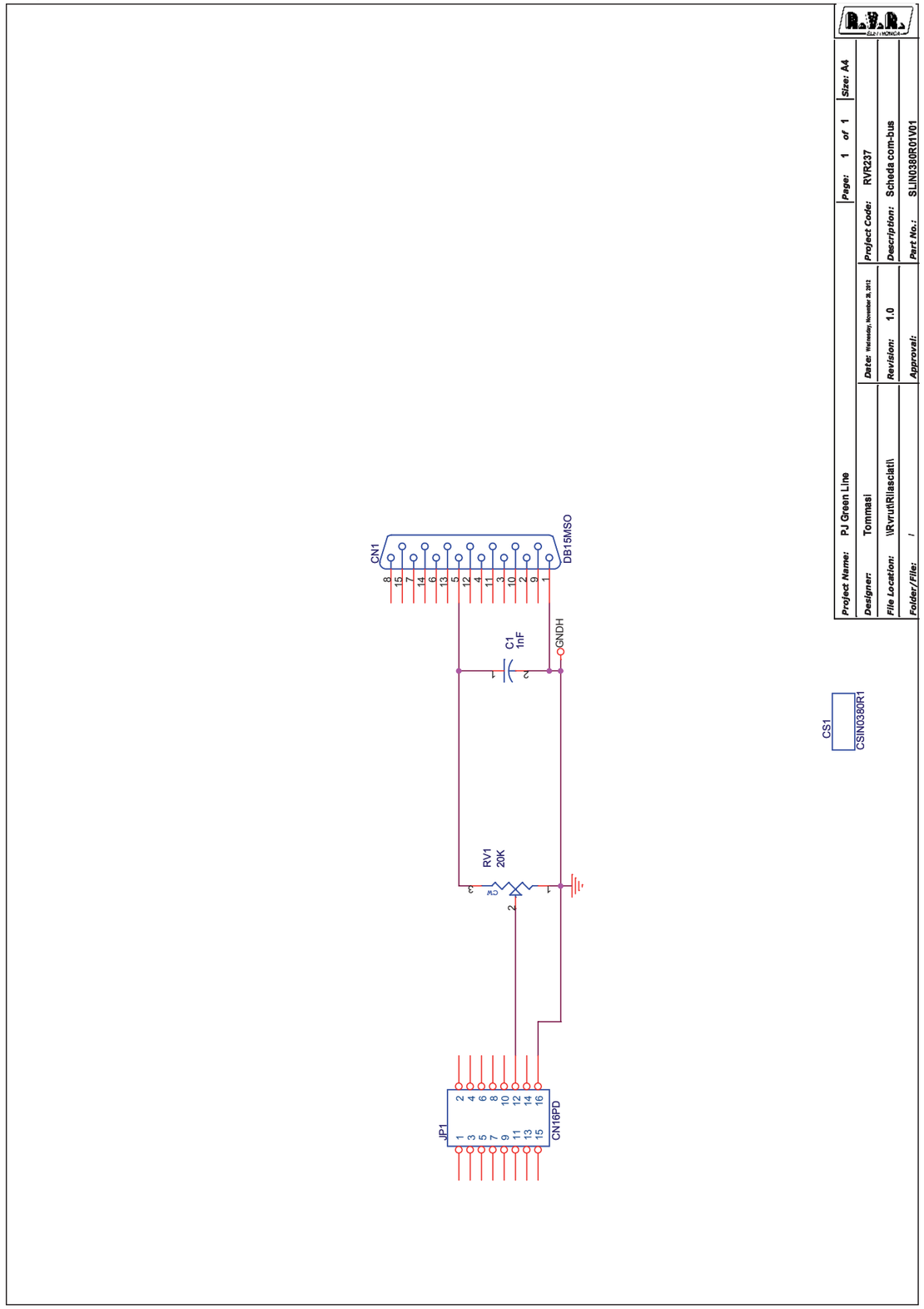


DIS. S.POL.
CTR. A2
LATO PIANO DI MONTAGGIO
VISTA LATO COMPONENTI

SCALA 1:1

RVR ELETTRONICA S.P.A.

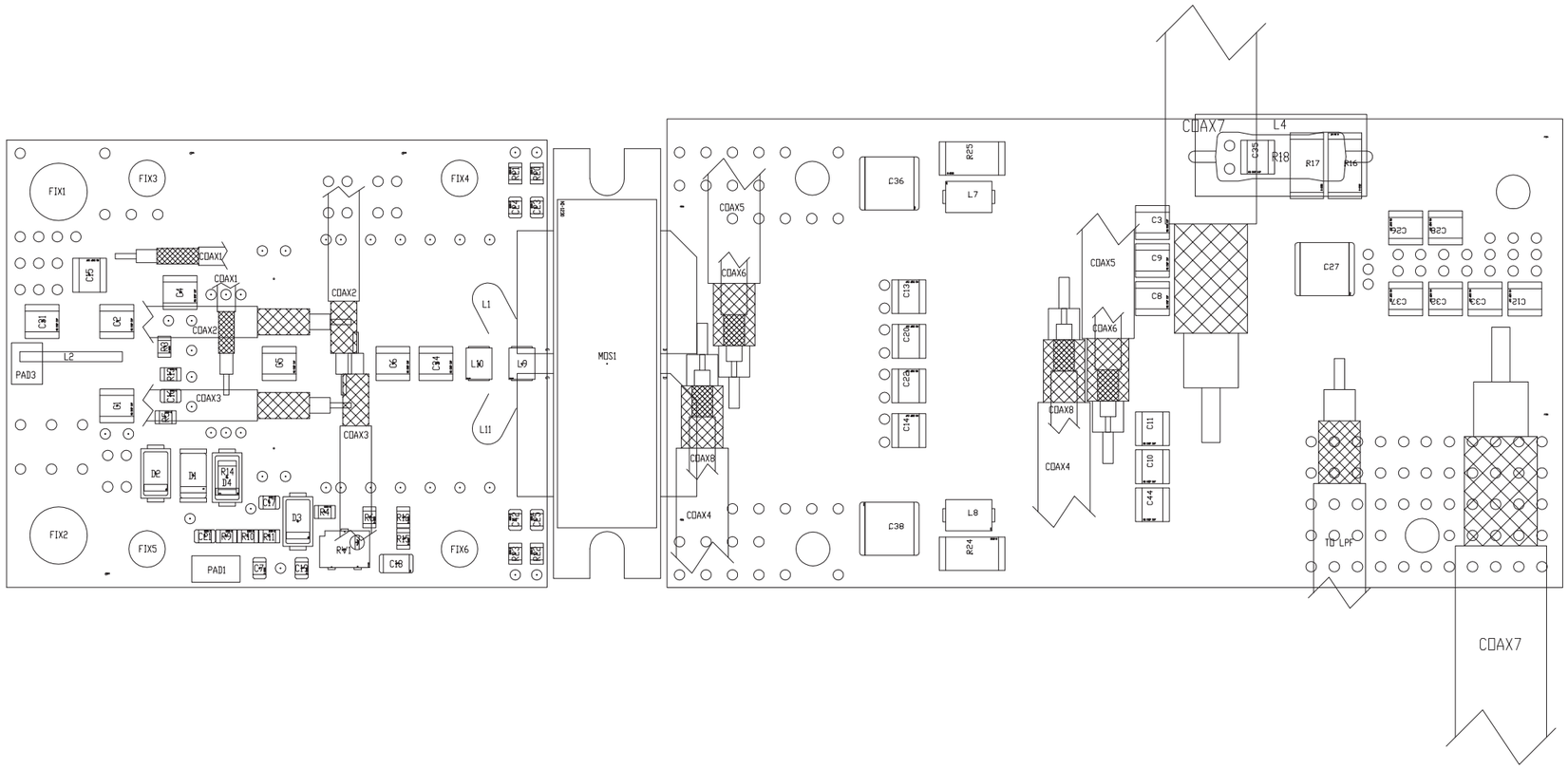
DATA RILASCIO:			DENOMINAZIONE
REV: 03			CODICE SLIN0380R01V01
DIM.SCHEDA: VEDI QUOTE	TRATT: STANDARD COSTRUTTORE	MAT: FR4-74 1.6mm Cu 35um	VISTA POSITIVA



Project Name:	PJ Green Line
Designer:	Tommasi
File Location:	\RvrutilRilasciati\
Folder/File:	/
Page:	1 of 1
Size:	A4
Project Code:	RVR237
Date:	Wednesday, November 25, 2015
Revision:	1.0
Description:	Scheda com-bus
Approval:	
Part No.:	SLIN0380R01V01

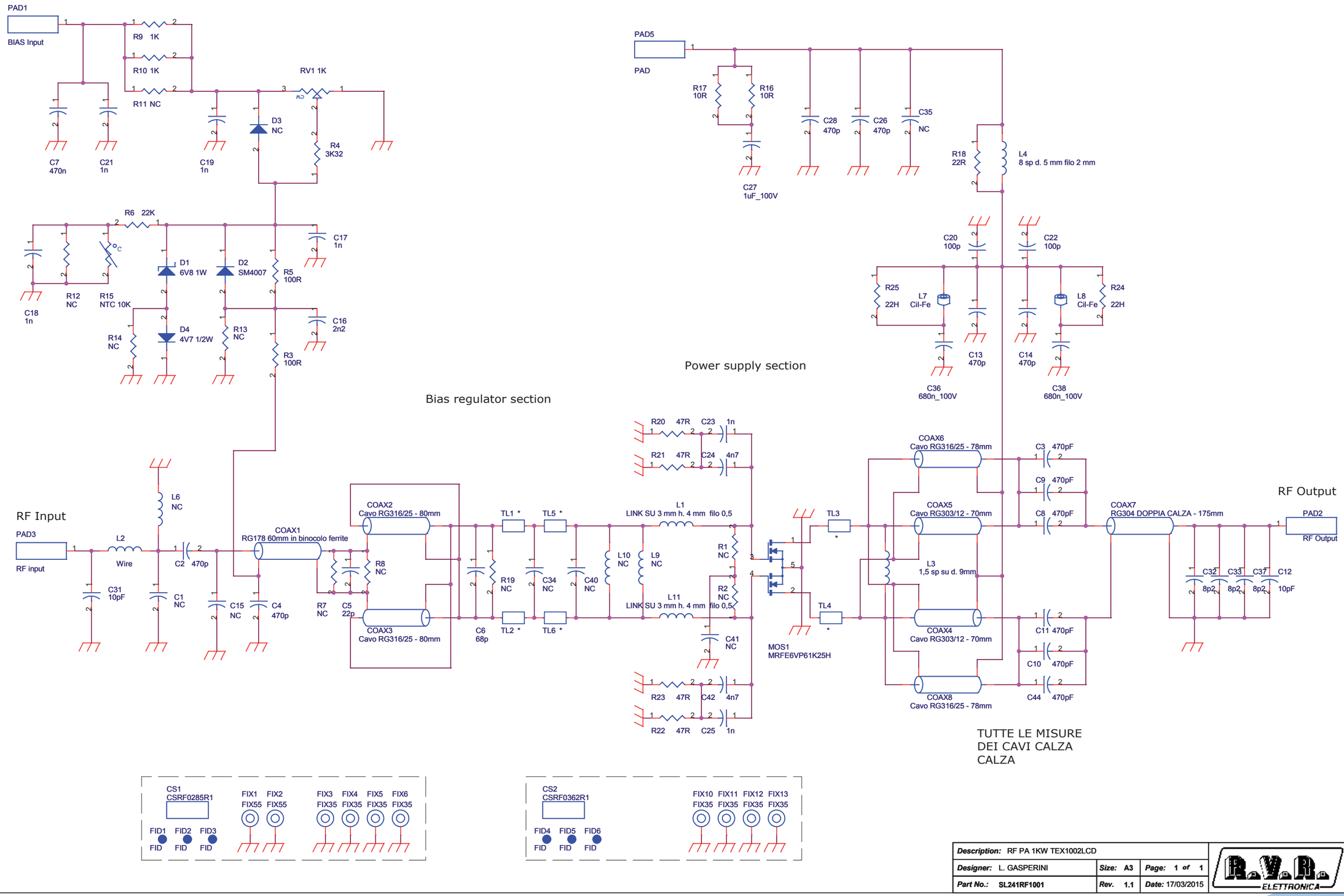
Schedsa com-bus Revised: Wednesday, November 28, 2012
SLIN0380R01V01 Revision: 1.0
A. Tommasi
PJ Green Line
RVR237

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



R.V.R. ELETTRONICA	NOME PROGETTO: TEX1002LCD			NOME PARTE: SEM.SCH.PALLET AMP 1KOW FM			
	AUTORE: L. GASPERINI			DATA: 17-03-2015	REVISIONE: 1.0	SCALA: 2:1	SIZE: A3	PAGINA: 1 DI 1
ARCHIVIAZIONE ELETTRONICA: "CARTELLA RILASCIATI" SU "UTSRV"		CODICE PROGETTO: 241		CODICE DISEGNO: SL241RF1001			
MATERIALE: <>		TRATTAMENTO: <>		PROFILO: <>		STATO: ESECUTIVO	

SL241RF1001

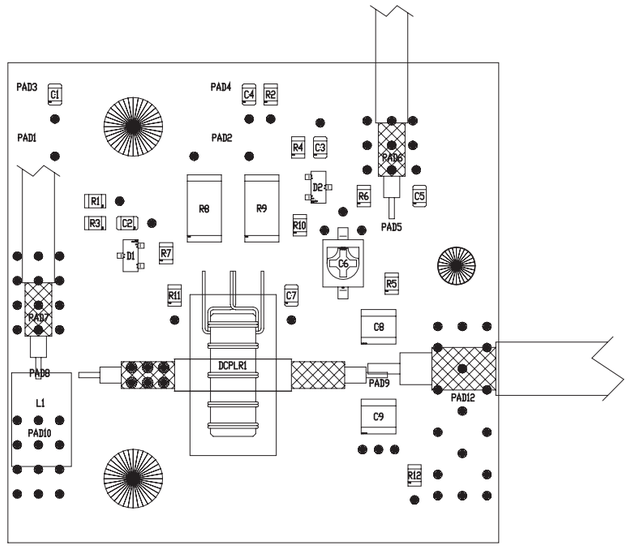


Description: RF PA 1KW TEX1002LCD			
Designer: L. GASPERINI	**Size:** A3	**Page:** 1 of 1	
Part No.: SL241RF1001	**Rev.** 1.1	**Date:** 17/03/2015	R.V.R. ELETTRONICA

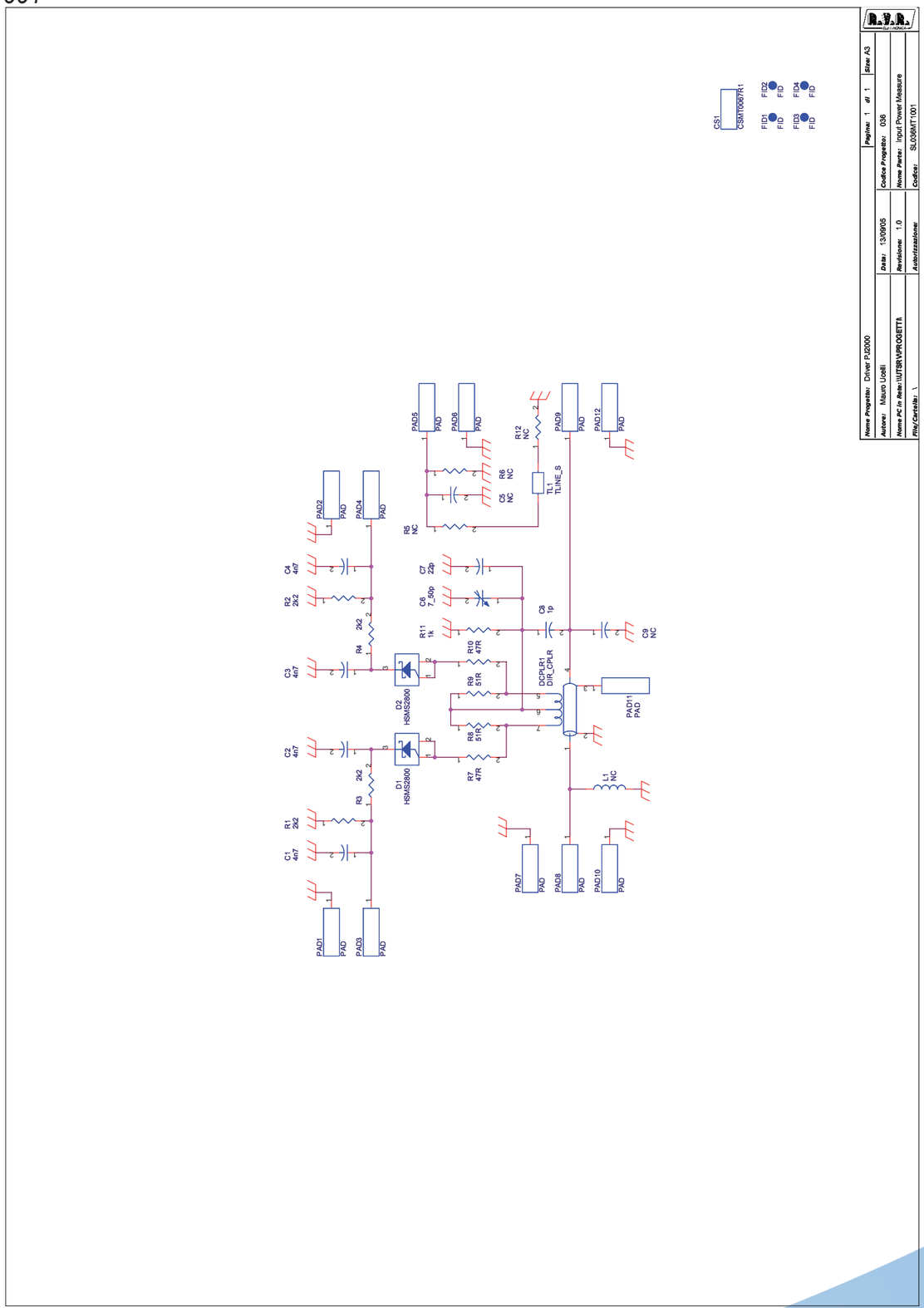
RF PA 1KW TEX1002 Revised: 17/03/2015
SL241RF1001 Revision: 1.1
TEX1002
Luca Gasperini

Item	Quantity	Reference	Part	description	code2
1	1	COAX1	RG178 60mm in binocolo ferrite	Cavo RG178 60mm calza/calza in binocolo ferrite	Inp
2	2	COAX2, COAX3	Cavo RG316/25 - 80mm	Cavo RG316/25 79mm calza/calza (91mm tot.)	Inp
3	2	COAX5, COAX4	Cavo RG303/12 - 70mm	Cavo RG316/25 72mm calza/calza (90mm tot.)	Out
4	2	COAX6, COAX8	Cavo RG316/25 - 78mm	Cavo RG316/25 76mm calza/calza (90mm tot.)	Out
5	1	COAX7	RG304 DOPPIA CALZA - 175mm	Cavo RG303 175mm calza/calza (197mm tot.)	Out
6	1	CS1	CSRF0285R2	Circuito stampato	Inp
7	1	CS2	CSRF0362R1	Circuito stampato	Out
8	1	C1	NC	Cond. SMD 0805	Inp
9	2	C2, C4	470p	Cond. SMD 1212 HQ	Inp
10	6	C3, C8, C9, C10, C11, C44	470pF	Cond. SMD 1212 HQ	Out
11	1	C5	22p	Cond. SMD 1212 HQ	Inp
12	1	C6	68p	Cond. SMD 1212 HQ	Inp
13	1	C7	470n	Cond. SMD 0805	Inp
14	1	C12	10pF	Cond. SMD 1212 HQ	Out
15	4	C13, C14, C26, C28	470p	Cond. SMD 1212 HQ	Out
16	3	C15, C34, C35, C40	NC	Cond. SMD 1212 HQ	Inp/out
17	1	C16	2n2	Cond. SMD 0805 COG	Inp
18	5	C17, C19, C21, C23, C25	1n	Cond. SMD 0805	Inp
19	1	C18	1n	Cond. SMD 1206	Inp
20	2	C22, C20	100p	Cond. SMD 1212 HQ	Out
21	2	C42, C24	4n7	Cond. SMD 0805	Inp
22	1	C27	1uF_100V	Cond. Ceramico	Out
23	1	C31	10pF	Cond. SMD 1212 HQ	Inp
24	3	C32, C33, C37	8p2	Cond. SMD 1212 HQ	Out
25	2	C36, C38	680n_100V	Cond. Poliestere p 10mm	Out
26	1	C41	NC	Cond. multistrato p 5mm	Inp
27	1	D1	6V8 1W	MELF SMD Zener Diode	Inp
28	1	D2	SM4007	Diodo SMD cont. SMA	Inp
29	1	D3	NC	Diodo SMD cont. SMA	Inp
30	1	D4	4V7 1/2W	Diodo SMD cont. SMA	Inp
31	3	FID1, FID2, FID3	FID	Fiducial CS	Inp
32	3	FID4, FID5, FID6	FID	Fiducial CS	Out
33	2	FIX1, FIX2	FIX55	Foro fissaggio 5.5mm	Inp
34	4	FIX3, FIX4, FIX5, FIX6	FIX35	Foro fissaggio 3.5mm	Inp
35	4	FIX10, FIX11, FIX12, FIX13	FIX35	Foro fissaggio 3.5mm	Out
36	2	L11, L1	LINK SU 3 mm h. 4 mm filo 0,5	Induttanza cilindrica	Inp
37	1	L2	Wire	Filo R. Arg. 1mm lung. 10mm	Inp
38	1	L3	1,5 sp su d. 9mm	1.5 Spire Filo R. Arg. 1mm, Avvolte su 8mm	Out
39	1	L4	8 sp d. 5 mm filo 2 mm	8spire R. Smalt.2mm su 5mm lung. 12mm includen	Out
40	1	L6	NC	3spire filo R. Arg.1mm avvolte su 4.5mm lung. 5mm	Inp
41	2	L7, L8	Cil-Fe	Cilindretto di ferrite	Out
42	2	L10, L9	NC	Ind. SMD 1008	Inp
43	1	MOS1	MRFE6VP61K25H	PP Power mosfet RF	
44	1	PAD1	BIAS Input	Pad SMD saldare	
45	1	PAD2	RF Output	Pad SMD saldare	
46	1	PAD3	RF input	Pad SMD saldare	
47	1	PAD5	PAD	Pad SMD saldare	
48	1	RV1	1K	Trimm. multi SMD PVG5 Murata	Inp
49	5	R1, R2, R7, R8, R19	NC	Res. 2W	Inp
50	2	R3, R5	100R	Res. SMD 0805 1%	Inp
51	1	R4	3K32	Res. SMD 0805 1%	Inp
52	1	R6	22K	Res. SMD 0805 1%	Inp
53	2	R10, R9	1K	Res. SMD 0805 1%	Inp
54	3	R11, R12, R13	NC	Res. SMD 0805 1%	Inp
55	1	R14	NC	Res. SMD 1206 1%	Inp
56	1	R15	NTC 10K	Res. NTC passo 5mm	Inp
57	2	R17, R16	10R	Res. SMD 2512 5%	Out
58	1	R18	22R	Res. 2W	Out
59	4	R20, R21, R22, R23	47R	Res. SMD 0805 1%	Inp
60	2	R25, R24	22H	Res. SMD 2512 1%	Out
61	4	TL1, TL2, TL5, TL6	*	Linea strip CS	Inp
62	2	TL3, TL4	*	Linea strip CS	Out

SL036MT1001

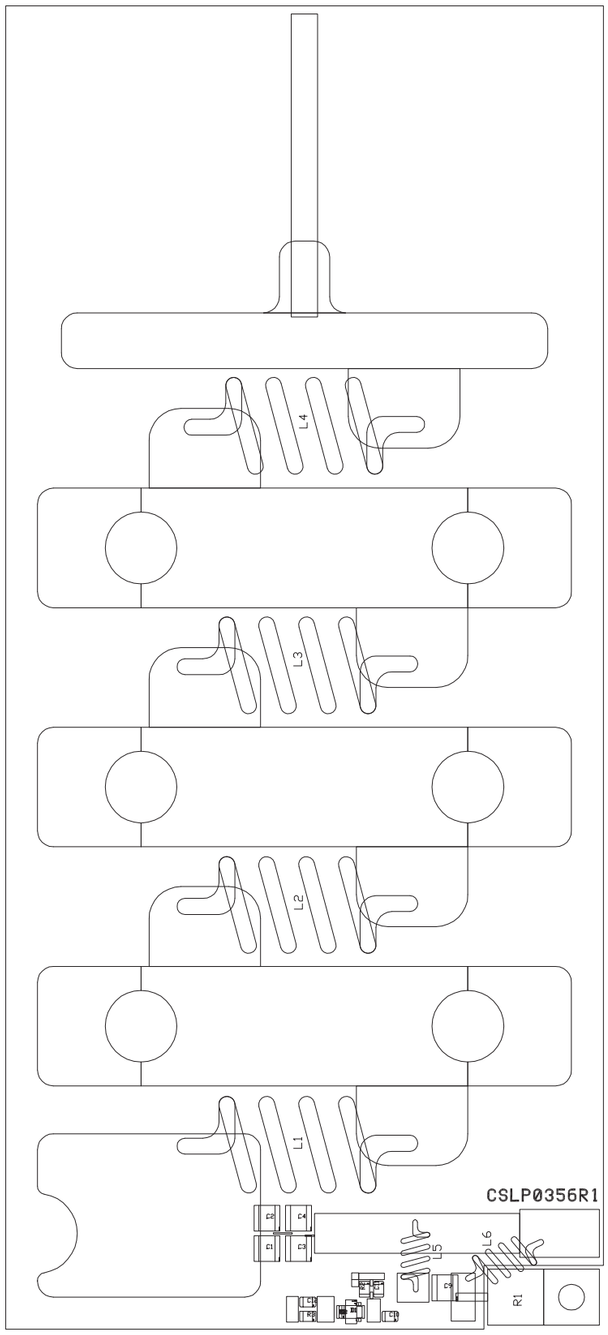


NOME PROGETTO: DRIVER LOW POWER			NOME PARTE: INPUT POWER MEASURE				
AUTORE: UCELLI	DATA: 13/09/2005	REVISIONE: 1.0	SCALA: 1:1	SIZE: A4	PAGINA: 1 DI 1		
ARCHIVIAZIONE ELETTRONICA: "CARTELLA PROGETTI" SU "UT_SRV"		CODICE PROGETTO: 036		CODICE DISEGNO: SL036MT1001			
MATERIALE: <>		TRATTAMENTO: <>		PROFILO: <>		STATO: PROGETTUALE	



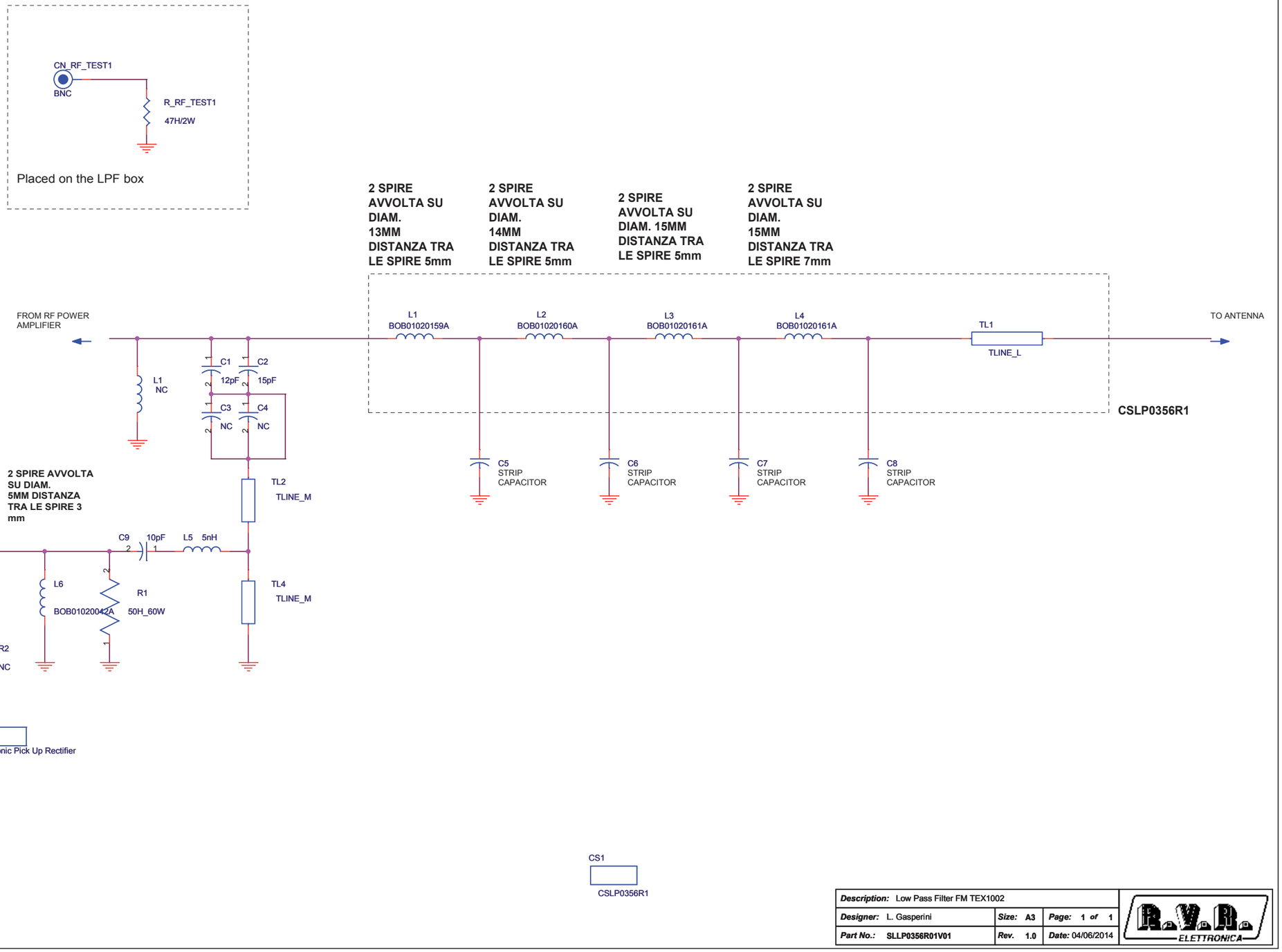
Input Power Measure
SL036MT1001
Revision: 1.0
Driver PJ2000
036
Mauro Ucelli
13/09/2005

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



NOME PROGETTO: TEX1002LCD			NOME PARTE: LOW PASS FILTER FM TEX1002LCD				
AUTORE: L. GASPERINI			DATA: 04/06/2014	REVISIONE: 1.0	SCALA: 1:1	SIZE: A4	PAGINA: 1 DI 1
ARCHIVIAZIONE ELETTRONICA: "CARTELLA RILASCIATI" SU "RVRUT"		CODICE PROGETTO: 241		CODICE DISEGNO: SLLP0356R01V01			
MATERIALE: <>	TRATTAMENTO: <>		PROFILO: <>		STATO: ESECUTIVO		

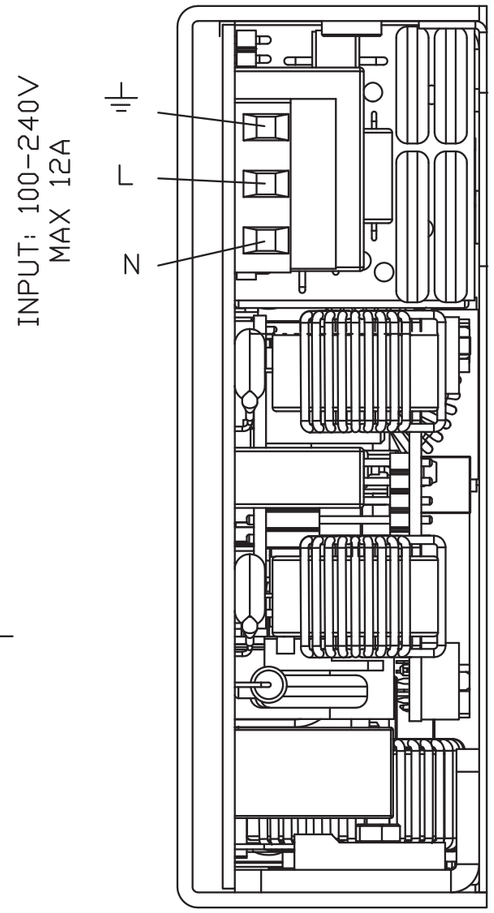
SLLP0356R01V01



Low Pass Filter FM TEX1002 Revised: 04/06/2014
SLLP0356R01V01 Revision: 1.0
TEX1002
L. Gasperini

Item	Quantity	Reference	Part	DESCRIPTION
1	2	L1, D1	NC	
2	1	CN_RF_TEST1	BNC	
3	1	CS1	CSLP0356R1	Circuito stampato
4	1	C1	12pF	Cond. SMD 1212 HQ
5	1	C2	15pF	Cond. SMD 1212 HQ
6	2	C3, C4	NC	Cond. SMD 1212 HQ
7	3	C5, C6, C7	54pFTFL	
8	1	C8	27pFTFL	
9	1	C9	10pF	Cond. SMD 1212 HQ
10	3	C10, C11, C12	NC	Cond. SMD 0805
11	1	D1	NC	Diodo in vetro DO35
12	1	L1	BOB01020159A	
13	1	L2	BOB01020160A	
14	2	L3, L4	BOB01020161A	
15	1	L5	BOB01020174A	
16	1	L6	BOB01020042A	
17	1	PAD1	3° Armonic Pick Up Rectifier	Pad SMD saldare
18	1	R_RF_TEST1	47H/2W	
19	1	R1	50H_60W	Resistenza KDI 1 fix
20	2	R2, R3	NC	Res. SMD 0805
21	1	TL1	TLINE_L	Linea strip CS
22	3	TL2, TL3, TL4	TLINE_M	Linea strip CS

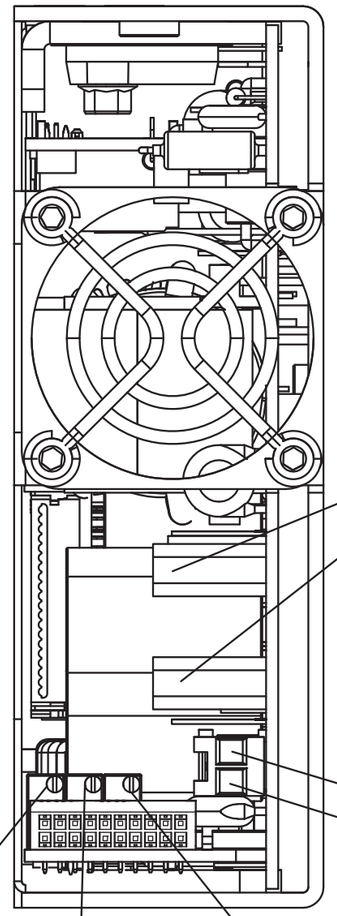
CONNECTION PSL4248



INPUT: 100-240V
MAX 12A

L
N

	PIN		
FOLD_BCK	2	1	INH_IN (INIBIT TO GND)
0V	4	3	I_OUT 10A/1V
STOP_IN (STOP TO GND)	6	5	STBY
LINE_KO_OC	8	7	WARN_OC
TR- (RS-485)	10	9	TR+ (RS-485)
0V	12	11	SHARE-BAS
EXTV_ADJ	14	13	0V
SENS-	16	15	SENS-
NC	18	17	0V
SENS+	20	19	NC



PWR V-
PWR V+

OUTPUT:
42-48V
MAX
1900W

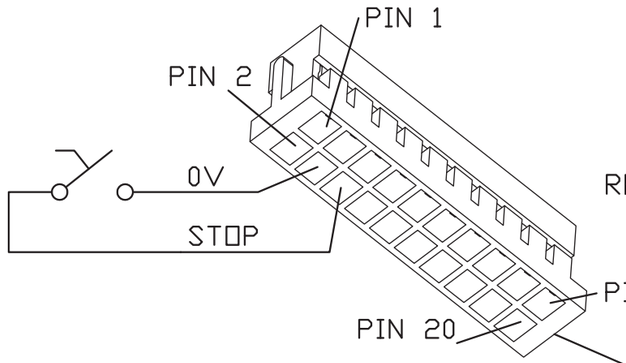
AUX +
AUX -

AUX: 24V
MAX 4A
ISOLATION MAX
500VDC

TR5
RESERVED

TR1
FOLDBACK

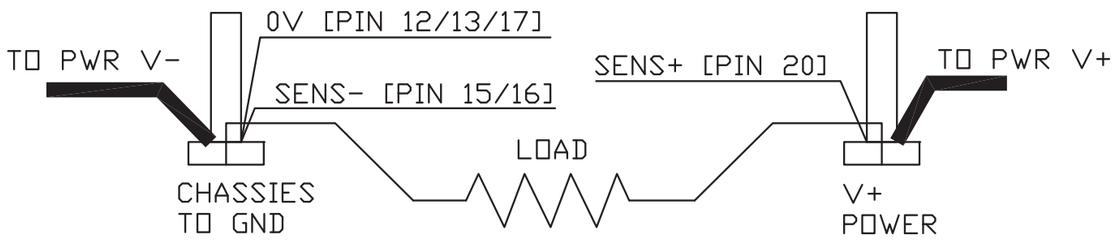
TR3
VOLTAGE
ADJ



PIN 1
PIN 2
0V
STOP
PIN 19
PIN 20

CONNECTOR MODEL: HRS DF11-20DS-2C
CONTACT MODEL: HRS DF11-2428SC

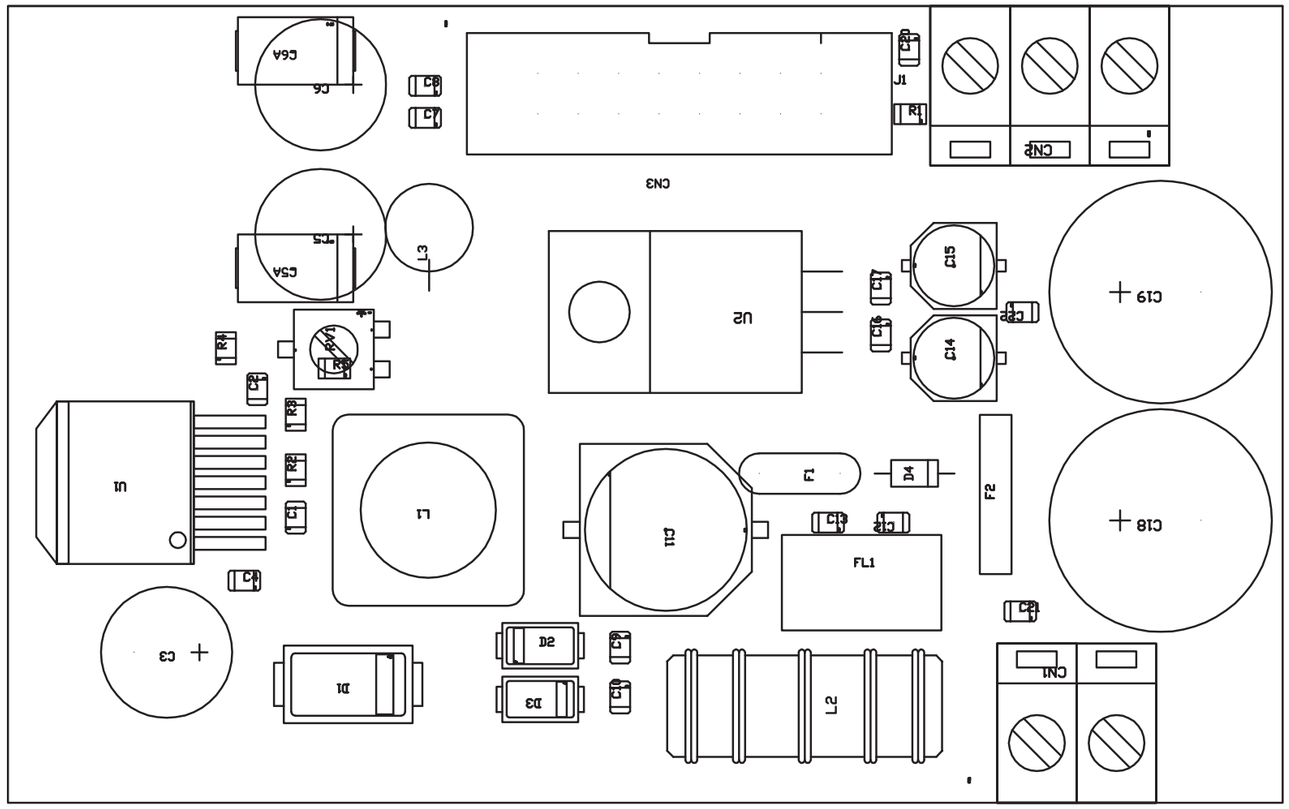
AUX CONNECTOR MODEL: AMP MOD I 280590
AUX CONTACT MODEL: AMP MODU 181299-1



TO PWR V-
0V [PIN 12/13/17]
SENS- [PIN 15/16]
SENS+ [PIN 20]
TO PWR V+
LOAD
CHASSIES
TO GND
V+
POWER

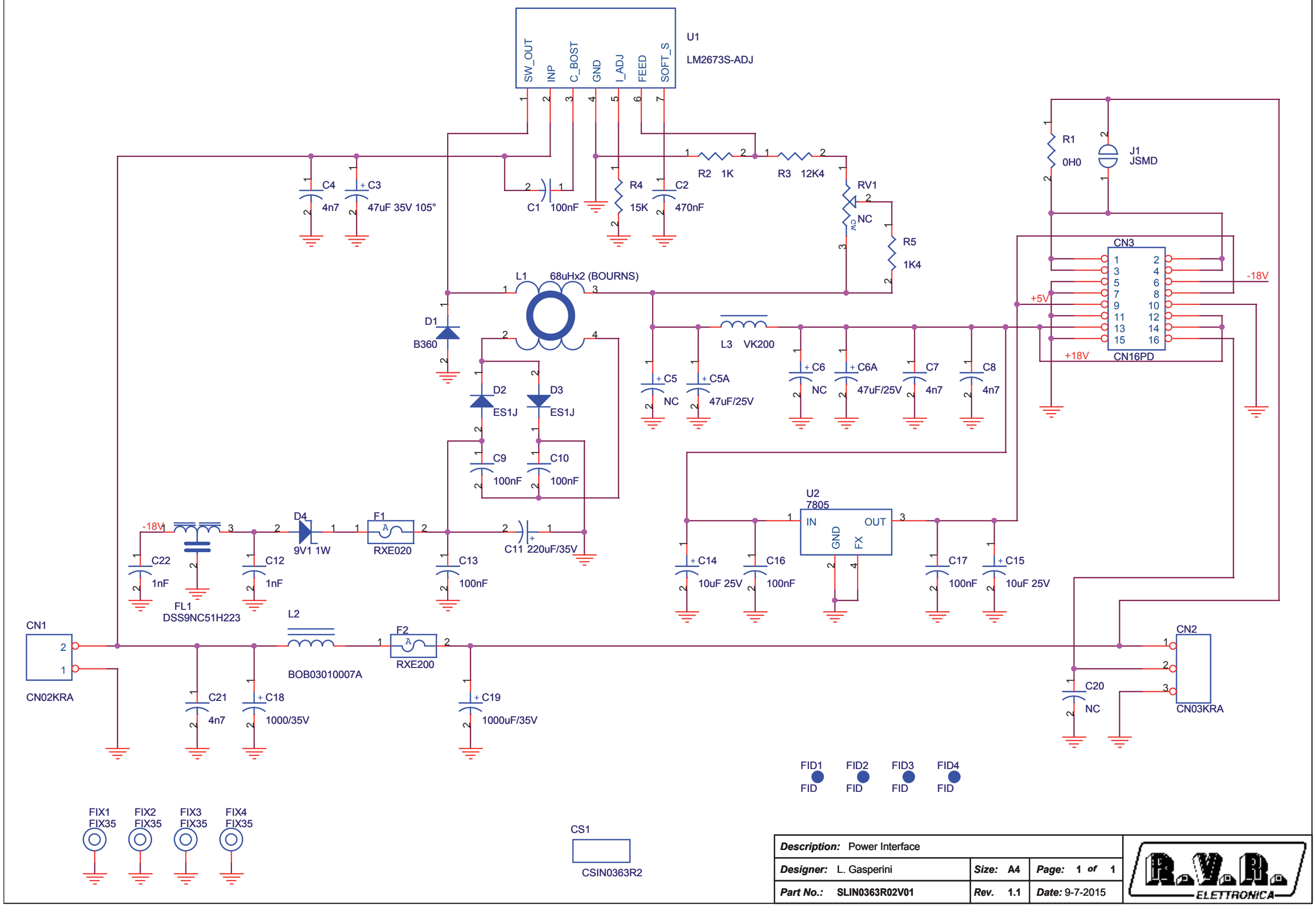
WEIGHT:
SCALE:1:1
SHEET 1 OF 1

SLIN0363R02V01



NOME PARTE:	INTERFACCIA ALIMENTAZIONE
DATA: 04-06-2015	REVISIONE: 1.0
SCALA: 2:1	SIZE: A4
PAGINA: 1 DI 1	
PROGETTO: 241	CODICE DISEGNO: SLIN0363R02V01
	STATO: ESECUTIVO
NOME PROGETTO:	TEX1002LCD
AUTORE:	L. GASPERINI
ARCHIVIAZIONE ELETTRONICA:	"CARTELLA RILASCIATI" SU "RVRUT"
CODICE PROGETTO:	
MATERIALE: <>	TRATTAMENTO: <>

SLIN0363R02V01

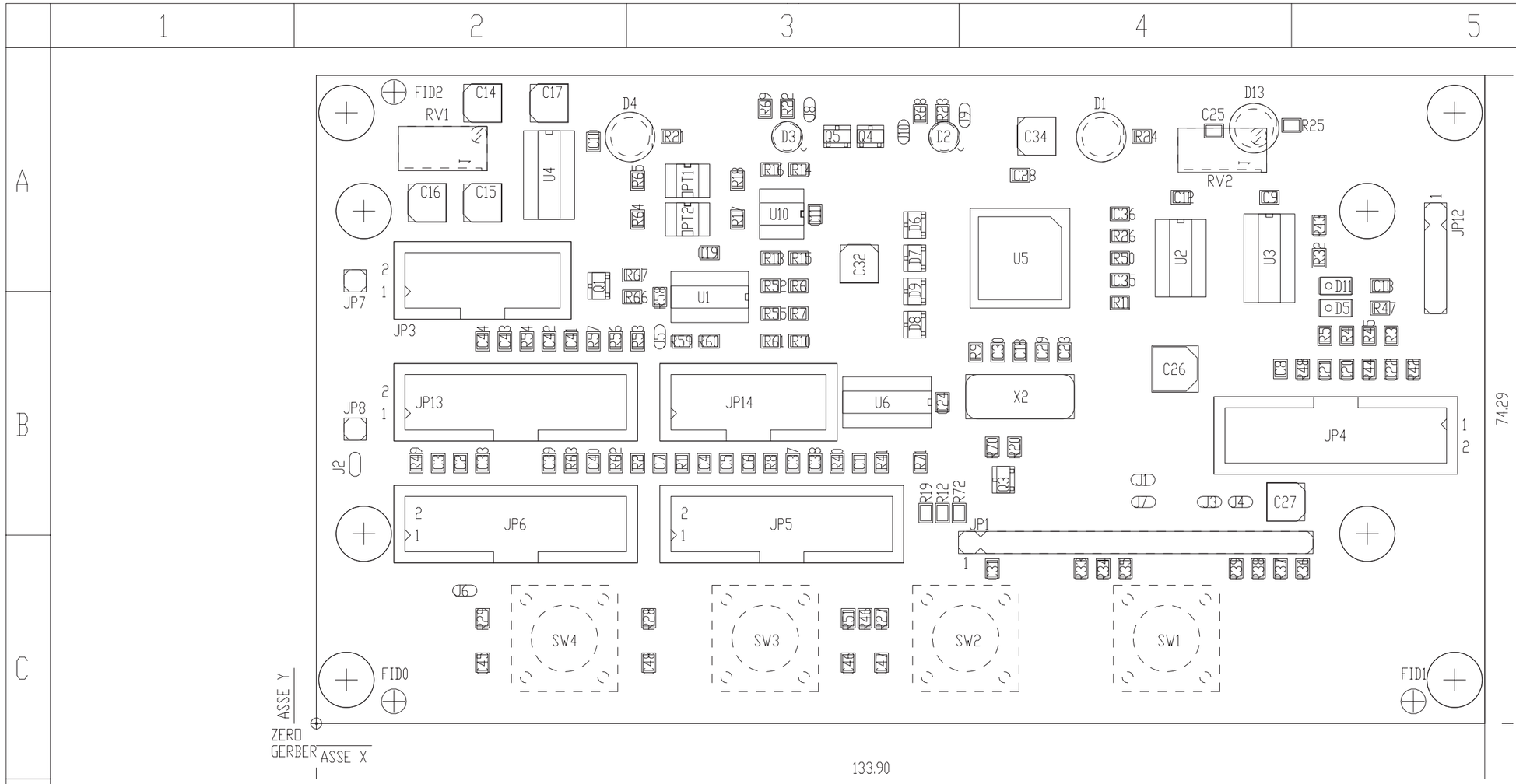


Description: Power Interface			
Designer: L. Gasperini	**Size:** A4	**Page:** 1 of 1	
Part No.: SLIN0363R02V01	**Rev.** 1.1	**Date:** 9-7-2015	

R.V.R. ELETTRONICA

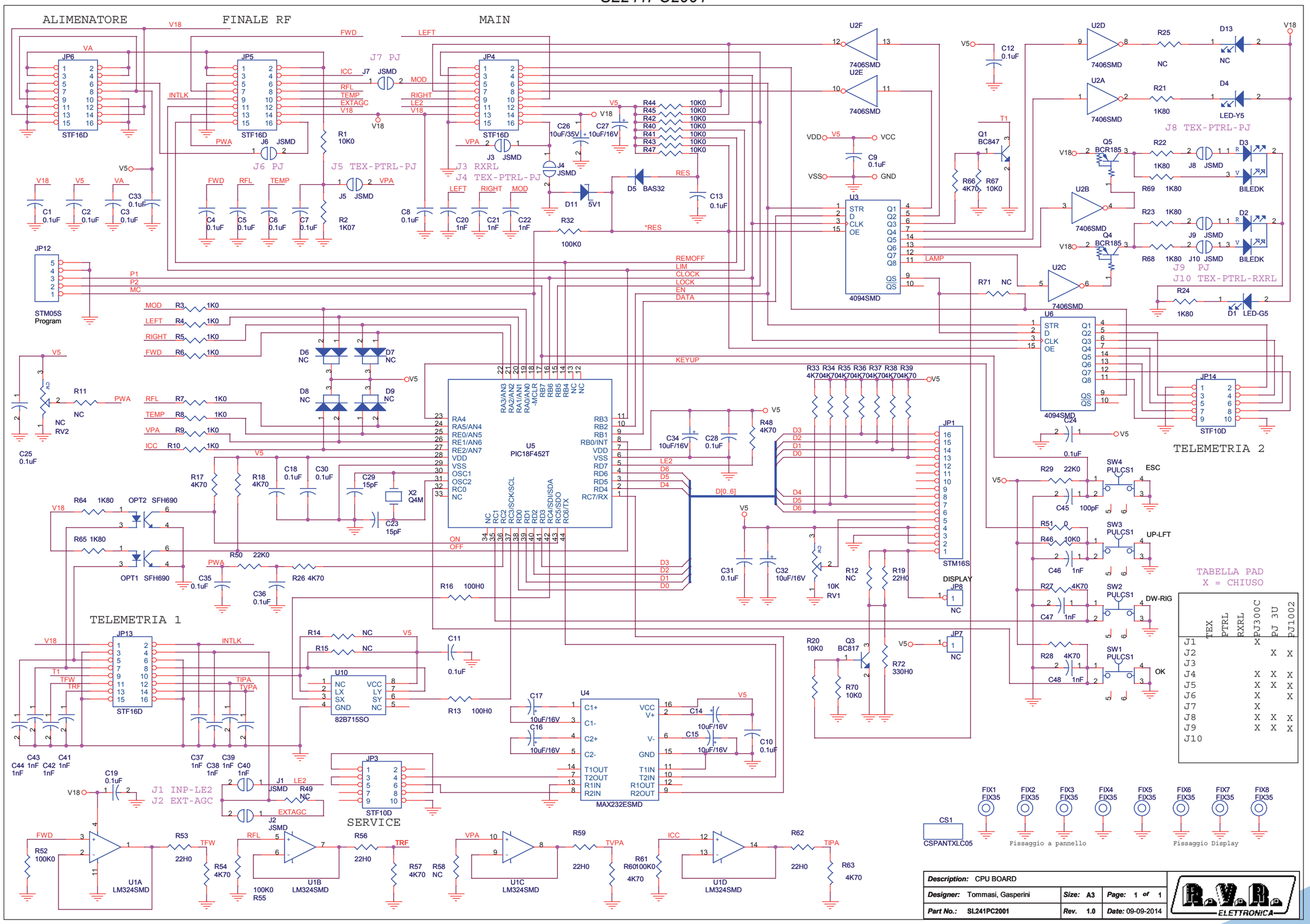
Power Interface Revised: 9-7-2015
SLIN0363R02V01 Revision: 1.1
Luca Gasperini

Item	Quantity	Reference	Part	{DESCRIPTION}
1	1	CN1	CN02KRA	Conn. tipo KRA a 2 poli
2	1	CN2	CN03KRA	Conn. tipo KRA a 3 poli
3	1	CS1	CSIN0363R2	Circuito stampato
4	6	C1, C9, C10, C13, C16, C17	100nF	Cond. SMD 0805
5	1	C2	470nF	Cond. SMD 0805
6	1	C3	47uF 35V 105°	Cond. Elettr. Dia 10 P5.08
7	4	C4, C7, C8, C21	4n7	Cond. SMD 0805
8	1	C11	220uF/35V	Cond. Elett. SMD d. 10mm
9	2	C14, C15	10uF 25V	Cond. Elett. SMD d. 5mm
10	2	C19, C18	1000uF/35V	Cond. Elettr. Dia 13 P5.08
11	1	D1	B360	MELF SMD Diode
12	2	D3, D2	ES1J	MELF SMD Diode
13	1	D4	9V1 1W	
14	4	FID1, FID2, FID3, FID4	FID	Fiducial CS
15	4	FIX1, FIX2, FIX3, FIX4	FIX35	Foro fissaggio 3.5mm
16	1	F1	RXE020	Fusibile autorip. 4 mm
17	1	F2	RXE185	Fusibile autorip. 10 mm
18	1	CN3	CN16PD	Conn.M.C.S.Dritto 16P alette.
19	1	L1	68uHx2 (BOURNS)	Ind. toroidale modo comune
20	1	L2	320uH	Induttanza toroidale
21	1	RV1	NC	Trimmer SMD
22	1	R1	NC	Res. SMD 0805
23	1	R2	1K	Res. SMD 0805
24	1	R3	12K4	Res. SMD 0805
25	1	R4	15K	Res. SMD 0805
26	1	R5	1K4	Res. SMD 0805
27	1	U1	LM2673S-ADJ	Regolatore switching DDPAK
28	1	U2	7805	Stabilizzatore TO220F Isolato
29	2	C12, C22	1nF	Cond. SMD 0805
30	1	L3	VK200	Ind. VK200
31	2	C5A, C6A	47uF 25V	Cond. Tant. CASE D
32	1	FL1	DSS9	Filt EMI DSS9
33	1	C20	NC	Cond. SMD 0805



DATA RILASCIO: 16/3/06			DIS. S.POL. CTR. A2 LATO PIANO DI MONTAGGIO VISTA LATO COMPONENTI
REV:			
DIM.SCHEDA: VEDI QUOTE TRATT: STANDARD COSTRUTTORE	DENOMINAZIONE SCHEDA PANEL BOARD		
MAT: FR4-74 1.6mm Cu 35um VISTA POSITIVA	CODICE CSPANTXLC005	RVR ELETTRONICA S.P.A.	SCALA 1:1

SL241PC2001

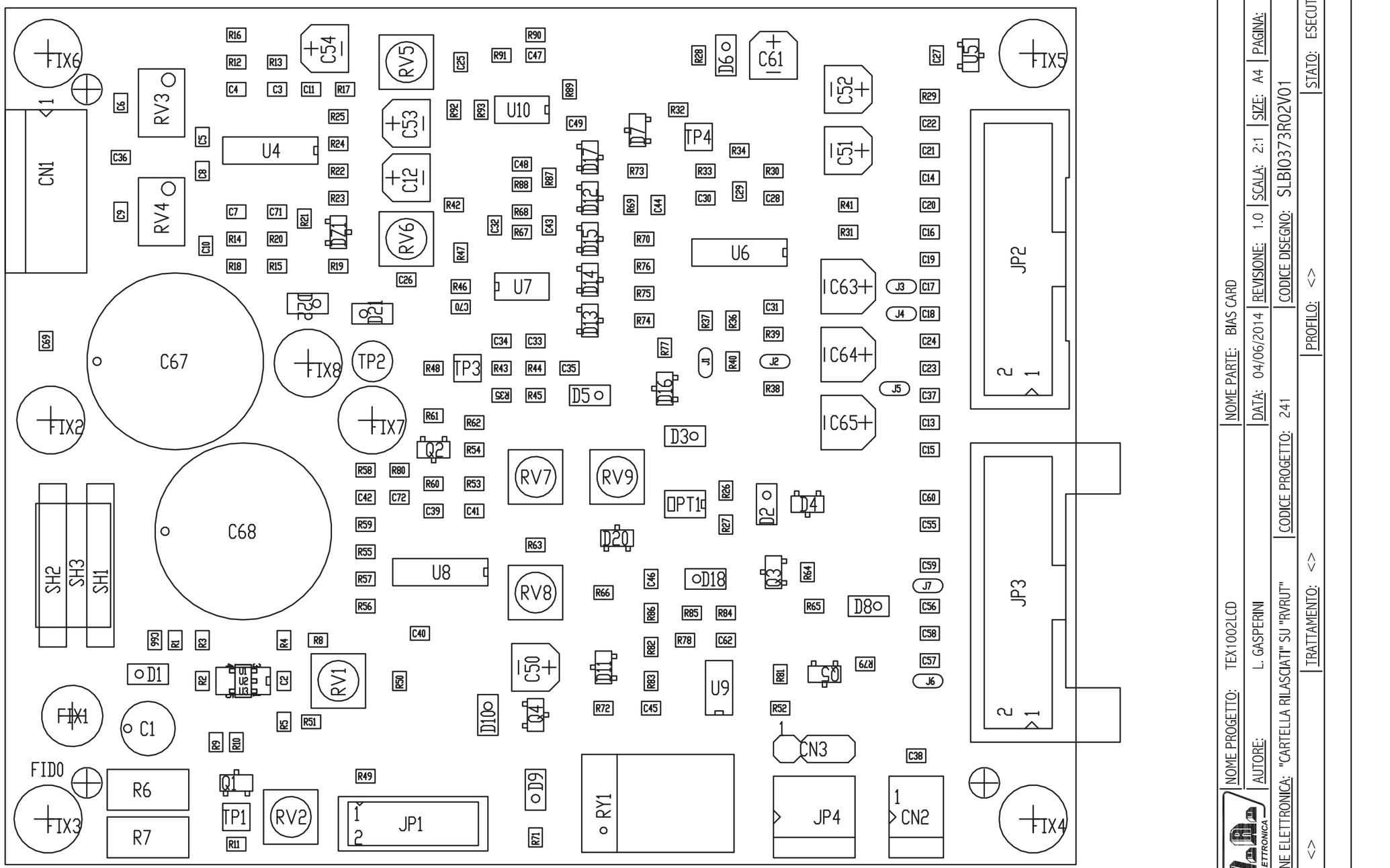


SL241PC2001
09-09-2014 Revision: 1.0
CPU BOARD

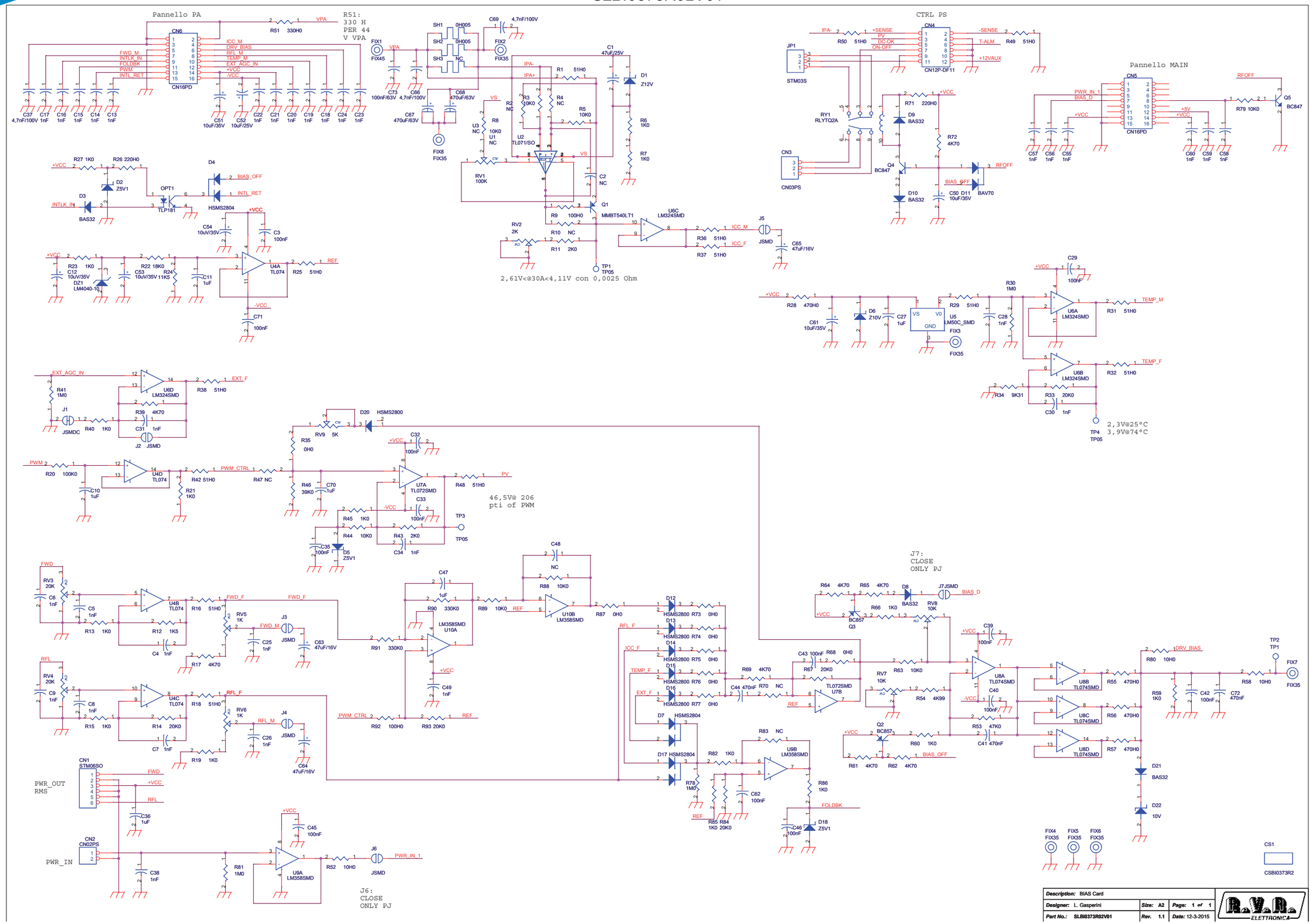
Tommasi

Item	Quantity	Reference	Part	Description
1	1	CS1	CSPANTXLC05	Circuito stampato
2	23	C1,C2,C3,C4,C5,C6,C7,C8, C9,C10,C11,C12,C13,C18, C19,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	14	C20,C21,C22,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 maschio 16 pin
17	2	JP3, JP14	CN10PD	STF10D
18	4	JP4,JP5,JP6,JP13	CN16PD	STF16D
19	2	JP7,JP8	NC	
20	1	JP12	STM05S	Strip maschio 5 pin
21	10	J1,J2,J3,J4,J5,J6,J7,J8, J9,J10	JSMD	Pad SMD a saldare
22	2	OPT1,OPT2	SFH690	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	8	R11,R12,R25,R49,R58,R71 R14,R15	NC	Res. SMD 0805 1%
33	2	R13,R16	100H0	Res. SMD 0805 1%
34	1	R72	330H0	Res. SMD 0805 1%
35	18	R17,R18,R26,R27,R28,R33, R34,R35,R36,R37,R38,R39, R48,R54,R57,R60,R63,R66	4K70	Res. SMD 0805 1%
36	8	R21,R22,R23,R24,R64,R65, R68,R69	1K80	Res. SMD 0805 1%
37	2	R29,R50	22K0	Res. SMD 0805 1%
38	4	R32,R52,R55,R61	100K0	Res. SMD 0805 1%
39	1	R51	0H0	Res. SMD 0805 1%
40	5	R19,R53,R56,R59,R62	22H0	Res. SMD 0805 1%
41	4	SW1,SW2,SW3,SW4	PULCS1	Pulsante cs
42	1	U1	LM324SMD	Quad Op. SMD SO14
43	1	U2	7406SMD	Hex inv OC SMD SO14
44	2	U3,U6	4094SMD	Shift Reg. SMD SO16
45	1	U4	MAX232ESMD	RS232 Driver SMD SO16
46	1	U5	PIC18F452T	TQFP44 SMD Microprocessor
47	1	U10	82B715SO	IIC Bus driver SMD SO8
48	1	X2	Q4M	Quarzo SMD HC49SMD

SLBI0373R02V01



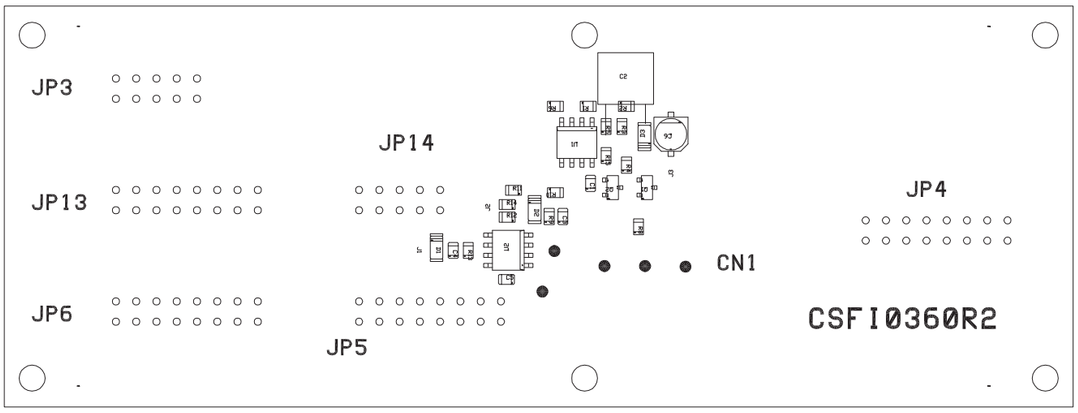
SLBI0373R02V01



SLBI0373R02V01

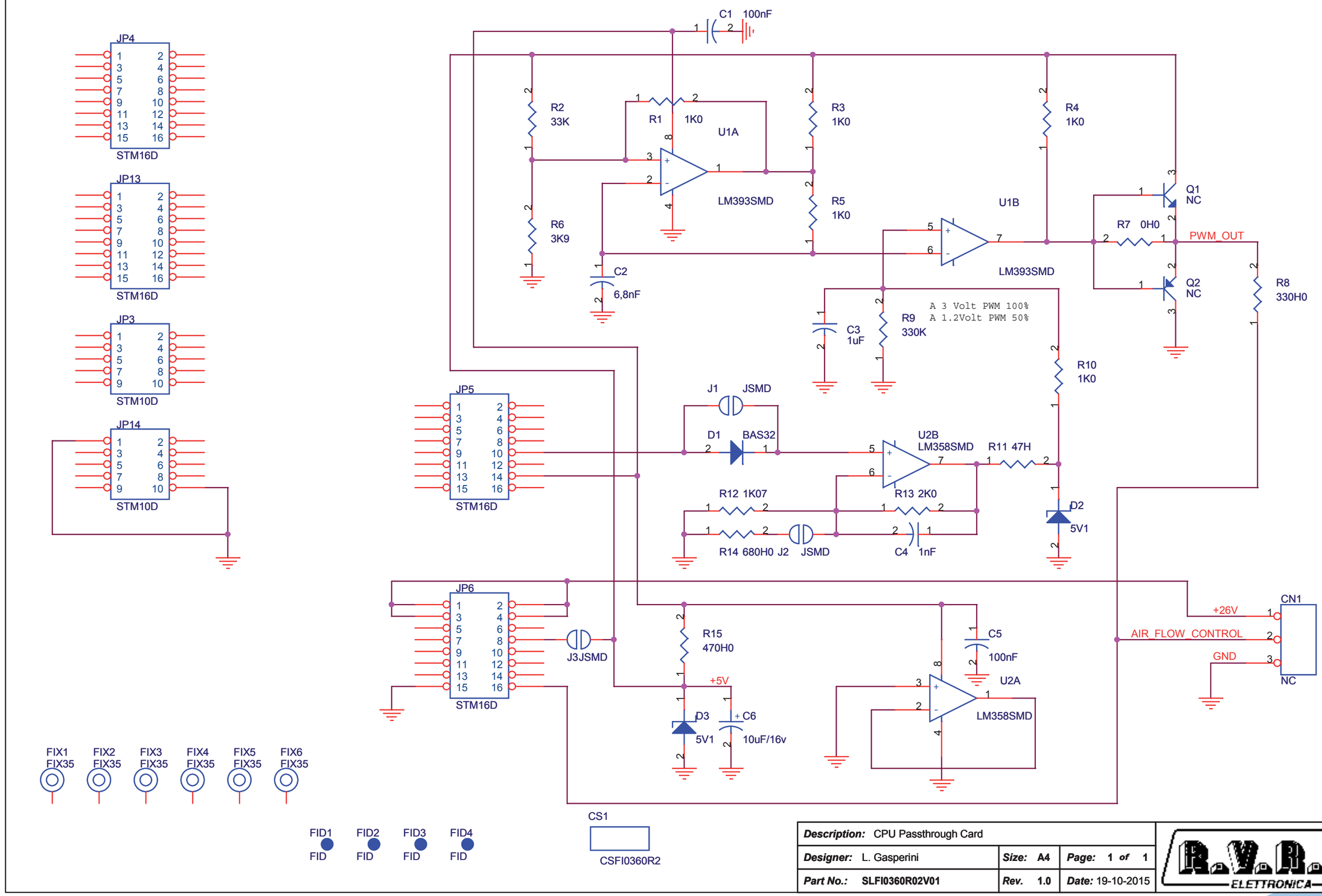
Scheda Bias Revised: 12-3-2015
SLBI0373R02V01 Revision: 1.1
TEX/PJ1000GL 2U
Tommasi A. / Gasperini L.

Item	Quantity	Reference	Part	DESCRIPTION
1	1	CN1	STM06SO	Srtip maschio 6 pin 90°
2	1	CN2	CN02PS	Connettore 2 poli Mascon
3	1	JP1	STM03S	STRIP MASCHIO 3 PIN
4	1	CS1	CSBI0373R2	Circuito stampato
5	1	C1	47uF/25V	Cond. Elettr. Dia 5 P2.54
6	2	C2, C48	NC	Cond. SMD 0805
7	13	C3, C29, C32, C33, C35, C39, C40, C42, C43, C45, C46, C62, C71	100nF	Cond. SMD 0805
8	32	C4, C5, C6, C7, C8, C9, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C28, C30, C31, C34, C38, C49, C55, C56, C57, C58, C59, C60	1nF	Cond. SMD 0805
9	6	C10, C11, C27, C36, C47, C70	1uF	Cond. SMD 0805
10	6	C12, C53, C54, C50, C51, C61	10uF/35V	Cond. Elett. SMD d. 4mm
11	3	C37, C66, C69	4,7nF/100V	Cond. SMD 0805
12	3	C41, C44, C72	470nF	Cond. SMD 0805
13	1	C52	10uF/25V	Cond. Elett. SMD d. 4mm
14	3	C63, C64, C65	47uF/16V	Cond. Elett. SMD d. 5mm
15	2	C68, C67	470uF/63V	Cond. Elettr. Dia 16 P5 o 7.5
16	1	DZ1	LM4040-10	Diodi Zener SMD SOT23
17	1	D1	Z12V	MINIMELF SMD Zener Diode
18	3	D2, D5, D18	Z5V1	MINIMELF SMD Zener Diode
19	5	D3, D8, D9, D10, D21	BAS32	MINIMELF SMD Diode
20	3	D4, D7, D17	HSMS2804	Doppio Diodo SMD SOT23
21	1	D6, D22	10V	MINIMELF SMD Zener Diode
22	1	D11	BAV70	Doppio Diodo SMD SOT23
23	6	D12, D13, D14, D15, D16, D20	HSMS2800	Diodo SMD SOT23
24	1	FIX1	FIX45	Foro fissaggio 4.5mm
25	7	FIX2, FIX3, FIX4, FIX5, FIX6, FIX7, FIX8	FIX35	Foro fissaggio 3.5mm
26	1	CN4	CN12P-DF11	Connettore 12 poli DF11 12pin p. 2mm
27	2	CN5, CN6	CN16PD	Conn.M.C.S.Dritto 16P alette.
28	1	CN3	CN03PS	Connettore 3 poli Mascon
29	1	J1	JSMDC	Pad SMD a saldare chiuso
30	6	J2, J3, J4, J5, J6, J7	JSMD	Pad SMD a saldare
31	1	OPT1	TLP181	Optoisolatore SMD SO6
32	1	Q1	MMBT540LT1	Trans. PNP SOT23
33	2	Q2, Q3	BC857	Trans. PNP SOT23
34	2	Q5, Q4	BC847	Trans. NPN SOT23
35	1	RV1	100K	Trimmer SMD
36	1	RV2	2K	Trimmer SMD
37	2	RV4, RV3	20K	Trimmer Rg V 3269W SMD
38	2	RV5, RV6	1K	Trimmer SMD
39	2	RV8, RV7	10K	Trimmer SMD
40	1	RV9	5K	Trimmer SMD
41	1	RY1	RLYTQ2A	Rele' TQ2
42	14	R1, R16, R18, R25, R29, R31, R32, R36, R37, R38, R42, R48, R49, R50	51H0	Res. SMD 0805 1%
43	6	R2, R4, R10, R47, R70, R83	NC	Res. SMD 0805 1%
44	8	R3, R5, R8, R44, R63, R88, R89, R79	10K0	Res. SMD 0805 1%
45	3	R6, R7, R59	1K0	Res. SMD 2512 1%
46	2	R9, R92	100H0	Res. SMD 0805 1%
47	2	R43, R11	2K0	Res. SMD 0805 1%
48	1	R12	1K5	Res. SMD 0805 1%
49	13	R13, R15, R19, R21, R23, R27, R40, R45, R60, R66, R82, R85, R86	1K0	Res. SMD 0805 1%
50	6	R14, R33, R53, R67, R84, R93	20K0	Res. SMD 0805 1%
51	8	R17, R39, R61, R62, R64, R65, R69, R72	4K70	Res. SMD 0805 1%
52	1	R20	100K0	Res. SMD 0805 1%
53	1	R22	18K0	Res. SMD 0805 1%
54	1	R24	11K5	Res. SMD 0805 1%
55	2	R71, R26	220H0	Res. SMD 0805 1%
56	4	R28, R55, R56, R57	470H0	Res. SMD 0805 1%
57	4	R30, R41, R78, R81	1M0	Res. SMD 0805 1%
58	1	R34	9K31	Res. SMD 0805 1%
59	8	R35, R68, R73, R74, R75, R76, R77, R87	0H0	Res. SMD 0805 1%
60	1	R46	39K0	Res. SMD 0805 1%
61	1	R51	330H0	Res. SMD 0805 1%
62	1	R54	4K99	Res. SMD 0805 1%
63	3	R52, R58, R80	10H0	Res. SMD 0805 1%
65	2	R90, R91	330K0	Res. SMD 0805 1%
66	2	SH2, SH1	0H005	Shunt OAR 3W
67	1	SH3	NC	Shunt WSR2..3 3W
68	3	TP1, TP3, TP4	TP05	Test point
69	1	TP2	TP1	Test point
70	1	U1	NC	High side current sense
71	1	U2	TL071/SO	Single Op. SMD SO8
72	1	U3	NC	Single Op Amp SOT23-5
73	1	U4, U8	TL074	Quad Op. SMD SO14
74	1	U5	LM50C_SMD	Temperature sensor
75	1	U6	LM324SMD	Quad Op. SMD SO14
76	1	U7	TL072SMD	Dual Op. SMD SO8
77	2	U9, U10	LM358SMD	Dual Op. SMD SO8
78	1	C73	100nF/63V	Cond. Poliestere



R.V.R. ELETTRONICA	NOME PROGETTO: TEX1002LCD		NOME PARTE: CPU PASSTHROUGH CARD				
	AUTORE: L. GASPERINI		DATA: 25/05/2015	REVISIONE: 1.0	SCALA: 1:1	SIZE: A4	PAGINA: 1 DI 1
ARCHIVIAZIONE ELETTRONICA: "CARTELLA RILASCIATI" SU "RVRUT"		CODICE PROGETTO: 241		CODICE DISEGNO: SLFI0360R02V01			
MATERIALE: <>		TRATTAMENTO: <>		PROFILO: <>		STATO: ESECUTIVO	

SLFI0360R02V01



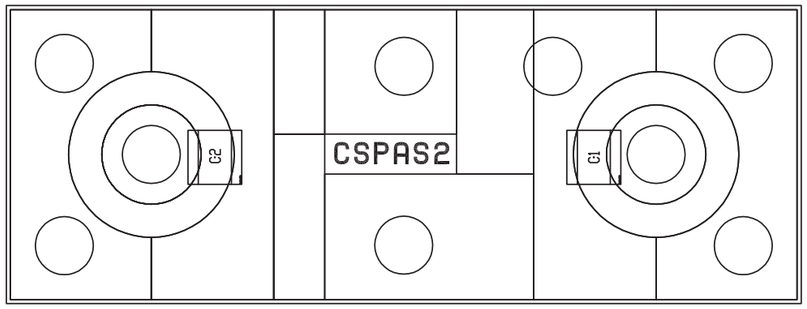
Description: CPU Passthrough Card			
Designer: L. Gasperini	**Size:** A4	**Page:** 1 *of* 1	
Part No.: SLFI0360R02V01	**Rev.** 1.0	**Date:** 19-10-2015	

R.V.R. ELETTRONICA

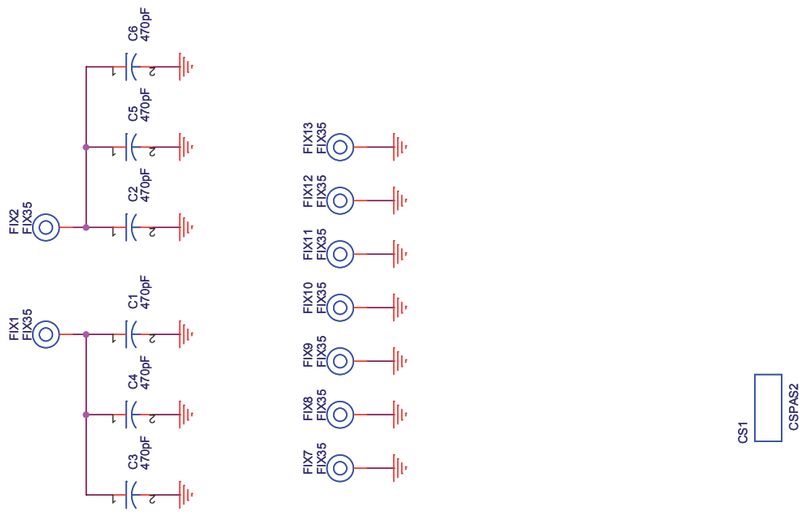
CPU Passthrough Card Revised: 25-5-2015
SLFI0360R02V01 Revision: 1.0
L. Gasperini

Item	Quantity	Reference	Part	{description}
1	1	CN1	NC	Conn. tipo KRA a 3 poli
2	1	CS1	CSFI0360R2	Circuito stampato
3	2	C1, C5	100nF	Cond. SMD 0805
4	1	C2	6n8	Cond. Poliestre P. 5 mm
5	1	C3	1uF	Cond. SMD 0805
6	1	C4	1nF	Cond. SMD 0805
7	1	C6	10uF/16v	
8	1	D1	BAS32	
9	2	D3, D2	5V1	MINIMELF SMD Zener Diode
10	4	FID1, FID2, FID3, FID4	FID	Fiducial CS
11	6	FIX1, FIX2, FIX3, FIX4, FIX5, FIX6	FIX35	Foro fissaggio 3.5mm
12	2	JP3, JP14	STM10D	Strip maschio 10 pin doppia fila
13	4	JP4, JP5, JP6, JP13	STM16D	Strip maschio 8+8 pin
14	3	J1, J2, J3	JSMD	
15	2	Q2, Q1	NC	
16	5	R1, R3, R5, R10, R4	1K0	Res. SMD 0805 1%
17	1	R2	33K	Res. SMD 0805 1%
18	1	R7	0H0	Res. SMD 0603
19	1	R6	3K9	Res. SMD 0805 1%
20	1	R8	330H0	Res. SMD 0805 1%
21	1	R9	330K	Res. SMD 0805 1%
22	1	R11	47H	Res. SMD 0805
23	1	R12	1K07	Res. SMD 0805
24	1	R13	2K0	Res. SMD 0805
25	1	R14	680H0	Res. SMD 0805
26	1	R15	470H0	Res. SMD 0805 1%
27	1	U1	LM393SMD	Dual Comp. SMD SO8
28	1	U2	LM358SMD	Dual Op. SMD SO8

SL241FI1001



NOME PROGETTO: TEX1002LCD			NOME PARTE: PASS THROUGH FILTER				
AUTORE: L. GASPERINI	DATA: 04/06/2014	REVISIONE: 1.0	SCALA: 3:1	SIZE: A4	PAGINA: 1 DI 1		
ARCHIVIAZIONE ELETTRONICA: "CARTELLA RILASCIATI" SU "RVRUT"		CODICE PROGETTO: 241		CODICE DISEGNO: SL241FI1001			
MATERIALE: <>		TRATTAMENTO: <>		PROFILO: <>		STATO: ESECUTIVO	



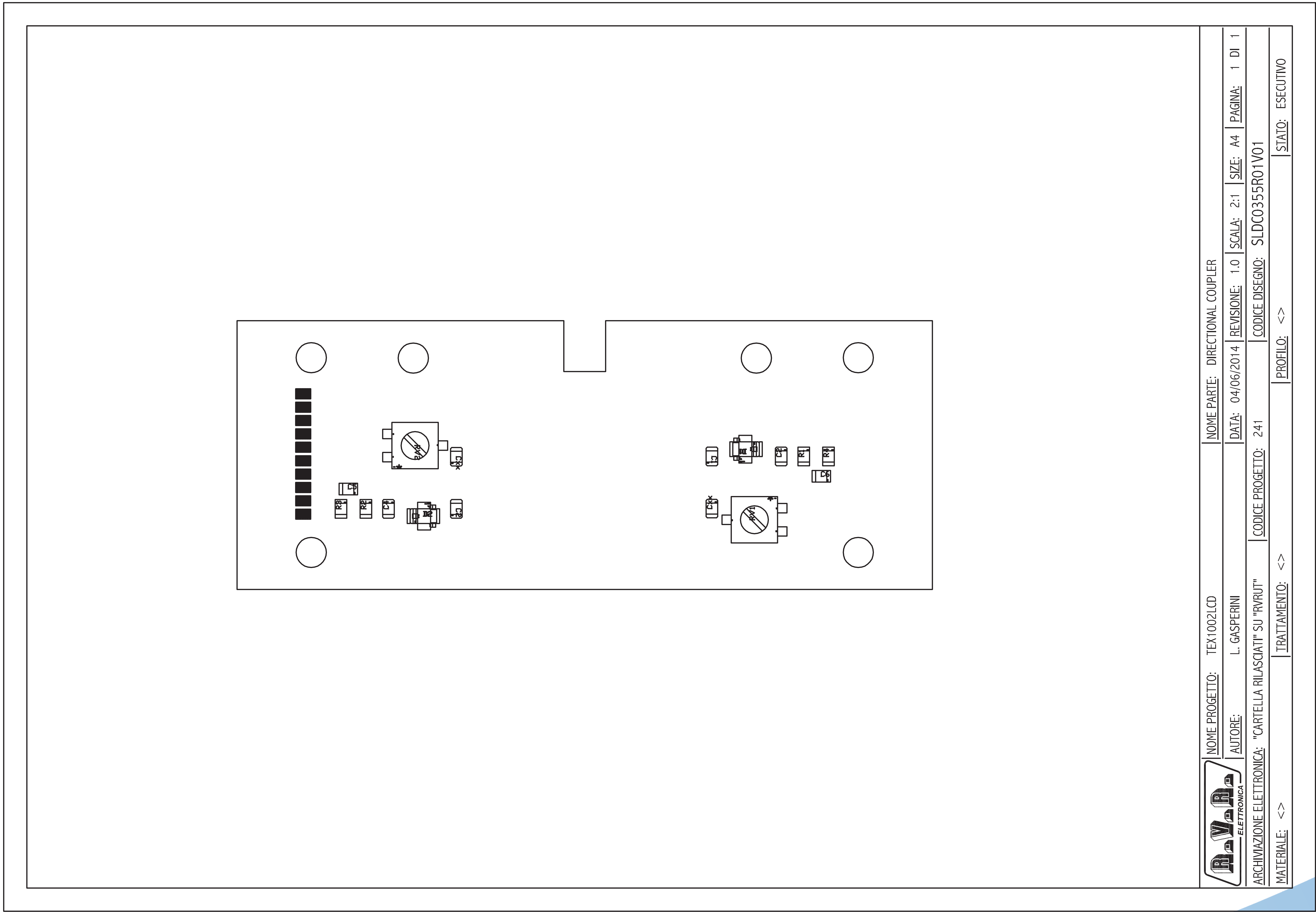
Description:	Pass Through Filter
Designer:	L. Gasperini
Part No.:	SL241FI1001
Size:	A4
Rev.	1.1
Page:	1 of 1
Date:	12-3-15

SL241FI1001

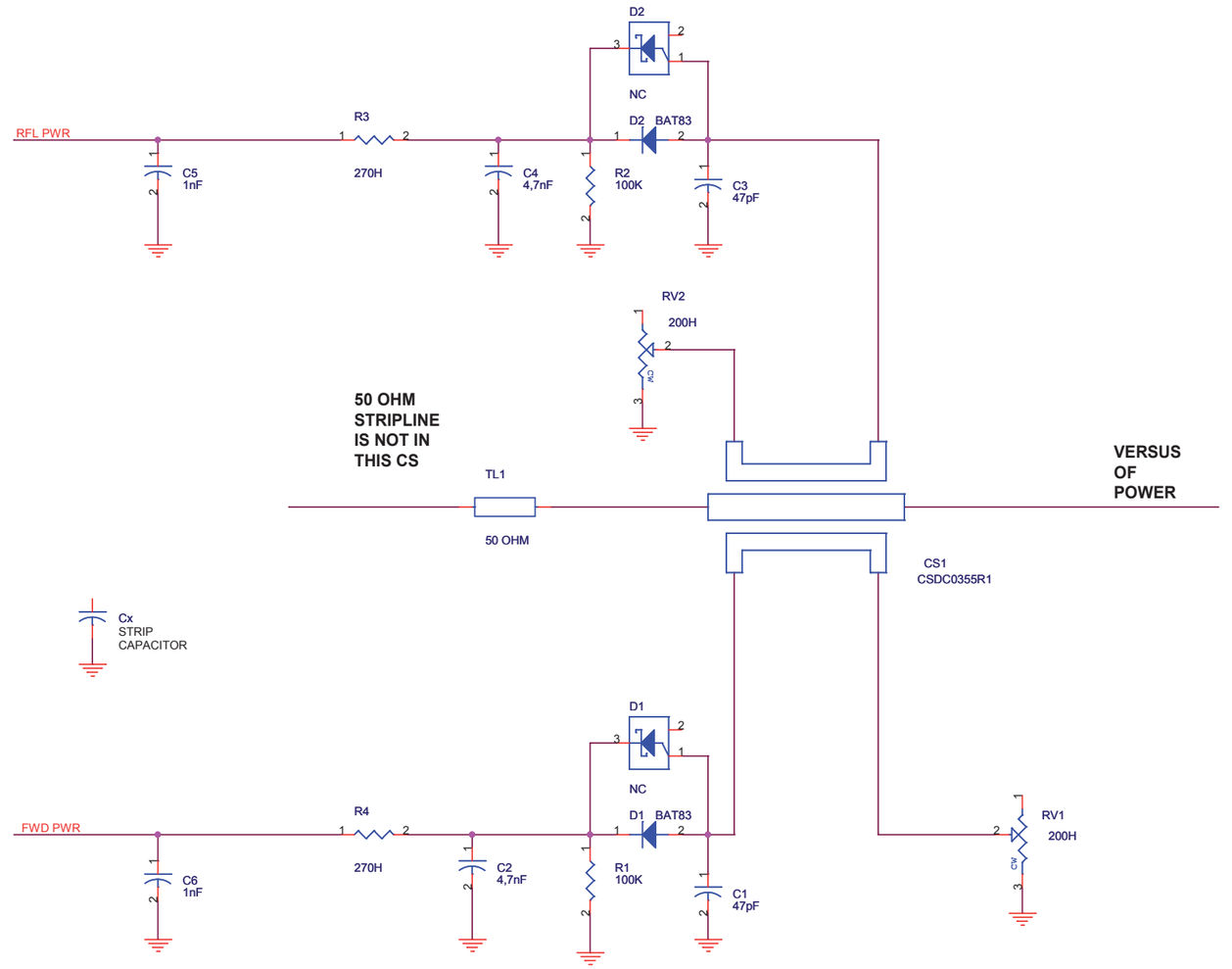
Pass Through Filter Revised: 12-3-15
SL241FI1001 Revision: 1.1
TEX1002
Luca Gasperini

Item	Quantity	Reference	Part	DESCRIPTION
1	1	CS1	CSPAS2	Circuito stampato
2	6	C1, C2, C3, C4, C5, C6	470pF	Cond. SMD 1212 HQ
3	9	FIX1, FIX2, FIX7, FIX8, FIX9, FIX10, FIX11, FIX12, FIX13	FIX35	Foro fissaggio 3.5mm

SLDC0355R01V01



SLDC0355R01V01

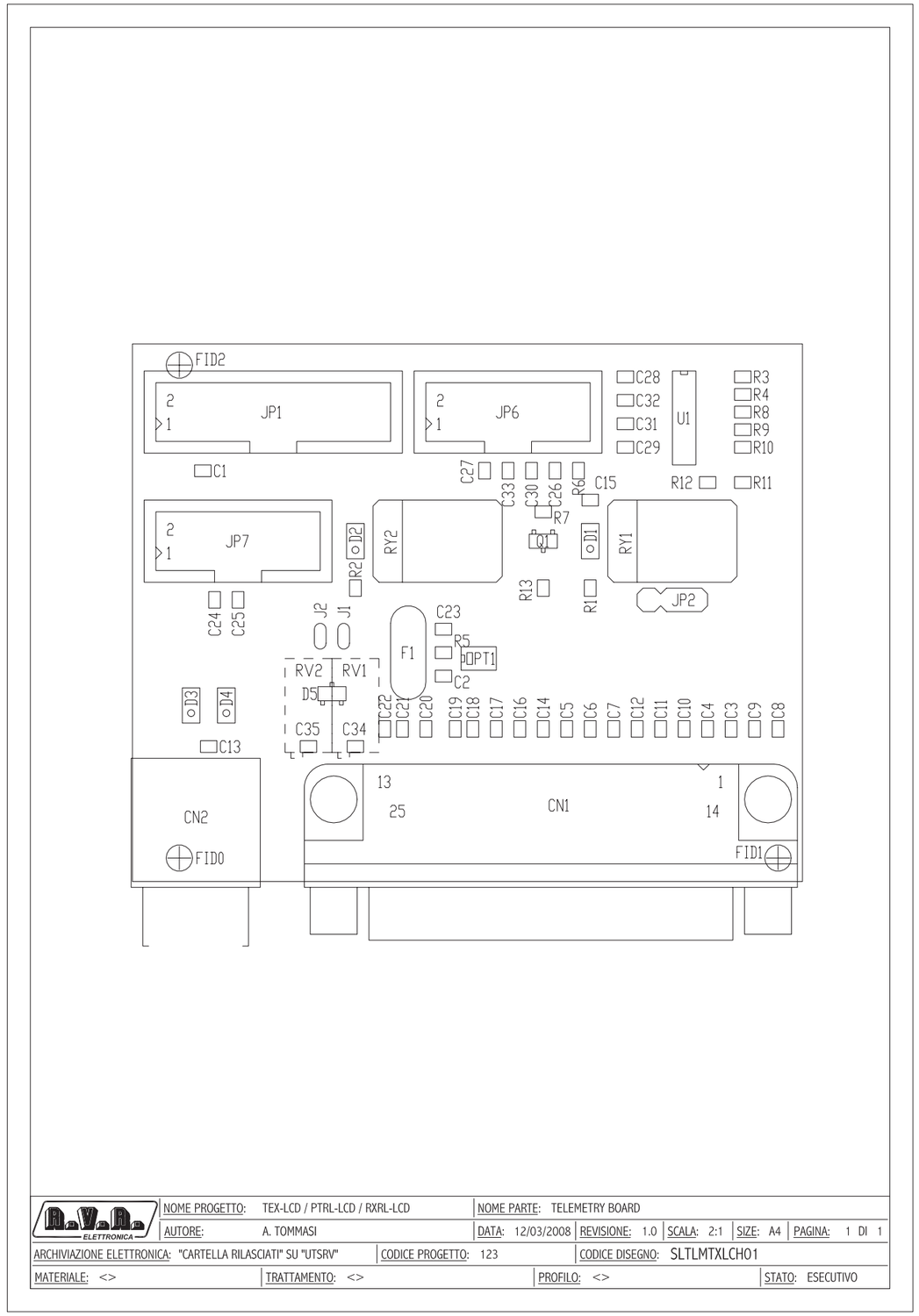


Description: Directional Coupler			
Designer: L. Gasperini	**Size:** A3	**Page:** 1 *of* 1	
Part No.: SLDC0355R01V01	**Rev.** 1.0	**Date:** 04/06/2014	

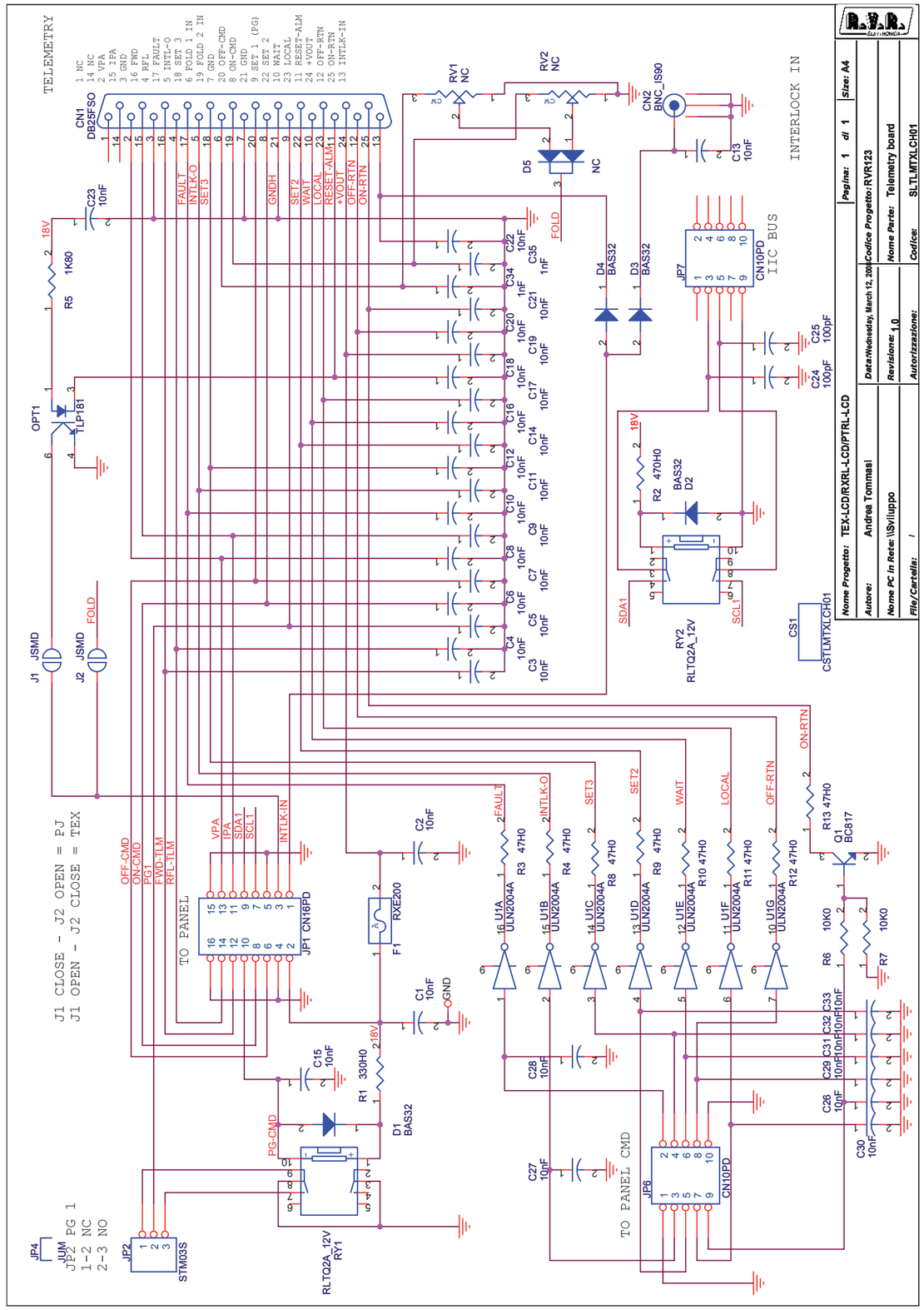
Directional Coupler Revised: 04/06/2014
SLDC0355R01V01 Revision: 1.0
TEX1002
L. Gasperini

Item	Quantity	Reference	Part	DESCRIPTION
1	1	CS1	CSDC0355R1	Circuito stampato
2	1	Cx	27pFTFL	
3	2	C3, C1	47pF	Cond. SMD 0805
4	2	C2, C4	4,7nF	Cond. SMD 0805
5	2	C6, C5	1nF	Cond. SMD 0805
6	2	D1, D2	BAT83	MINIMELF SMD Diode
8	2	RV2, RV1	200H	Trimmer SMD
9	2	R1, R2	100K	Res. SMD 0805
10	2	R3, R4	270H	Res. SMD 0805
11	1	TL1	50 OHM	Linea strip CS
12	1	TL1	50 OHM	Linea strip CS

SLTLMTXLCH01



NOME PROGETTO:	TEX-LCD / PTRL-LCD / RXRL-LCD			NOME PARTE:	TELEMETRY BOARD			
AUTORE:	A. TOMMASI	DATA:	12/03/2008	REVISIONE:	1.0	SCALA:	2:1	SIZE: A4	PAGINA: 1 DI 1
ARCHIVIAZIONE ELETTRONICA:	"CARTELLA RILASCIATI" SU "UTSRV"			CODICE PROGETTO:	123	CODICE DISEGNO:	SLTLMTXLCH01	
MATERIALE:	<>	TRATTAMENTO:	<>	PROFILO:	<>	STATO:	ESECUTIVO	



SLTLMTXLCH01

Telemetry board Revised: March, June 12, 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