



TEX300LCD

TECHNICAL ANNEX
VOLUME 2



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Manufactured by R.V.R. ELETTRONICA S.r.l. 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 TEX300LCD. L'appendice è composta dalle seguenti sezioni:

This part of the manual contains the technical details about the different boards of the TEX300LCD. This appendix is composed of the following sections:

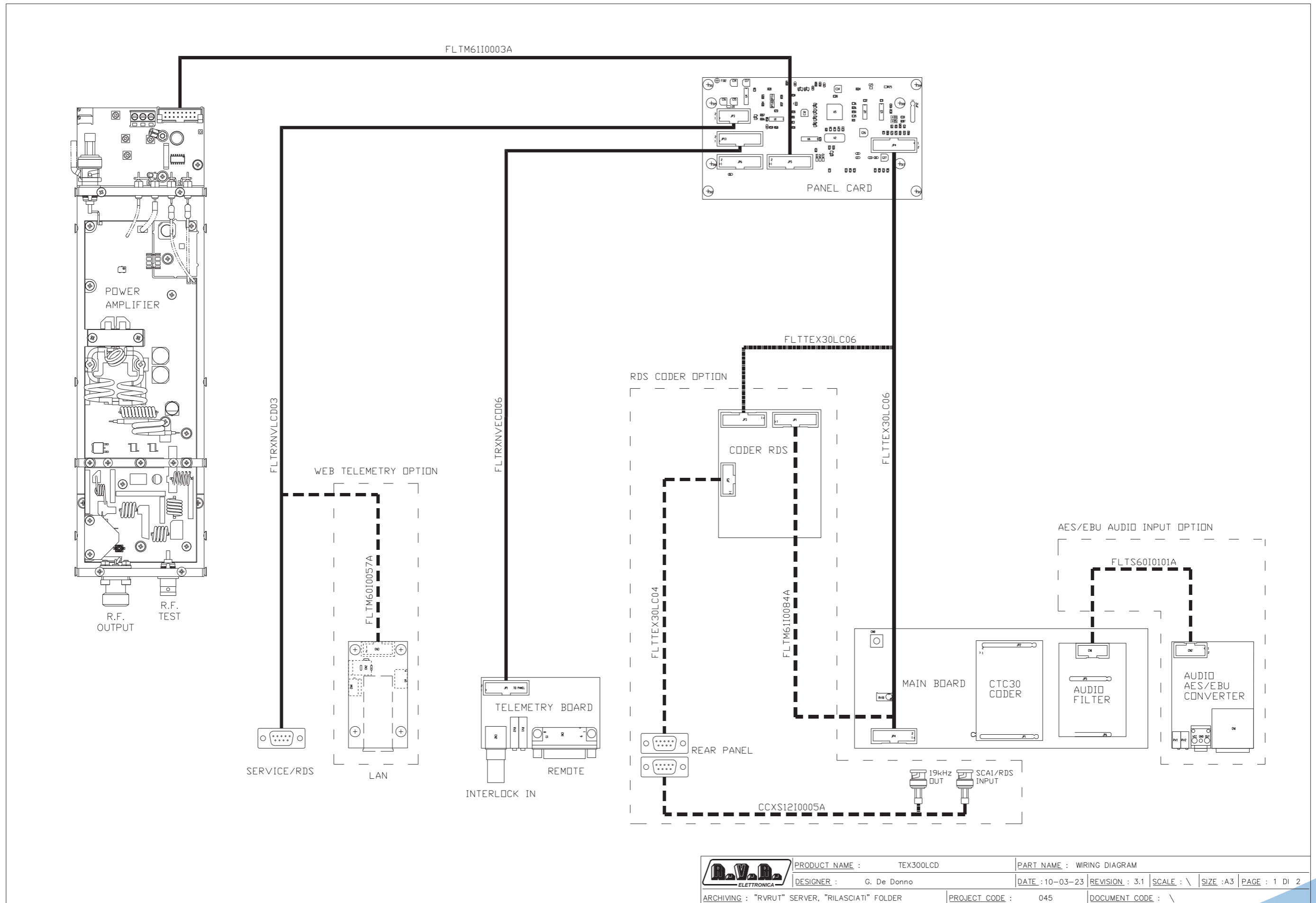
| Description | RVR Code | Vers. | Pages |
|-------------------------|----------------|-------|-------|
| Wiring Diagrams | / | 3.0 | 1 |
| Main Board | SLMA0383R02V01 | 1.1 | 3 |
| Stereo Coder Card | SLCTC30V03 | 1.2 | 9 |
| 15kHz Audio Filter Card | SLAU0469R01V02 | 1.0 | 12 |
| Control Card | SLCNTMOS07.300 | 1.3 | 15 |
| PA RF Power Supply | SLPS0468R01V02 | 1.0 | 18 |
| Power Amplifier | SLRF0484R03V01 | 1.1 | 20 |
| Panel Card | SLPC0436R01V01 | 1.1 | 24 |
| Power Supply | KPSL5012R01A | 1.0 | 27 |
| Telemetry Card | SLTLMTXLCD03 | 1.1 | 36 |

Document History

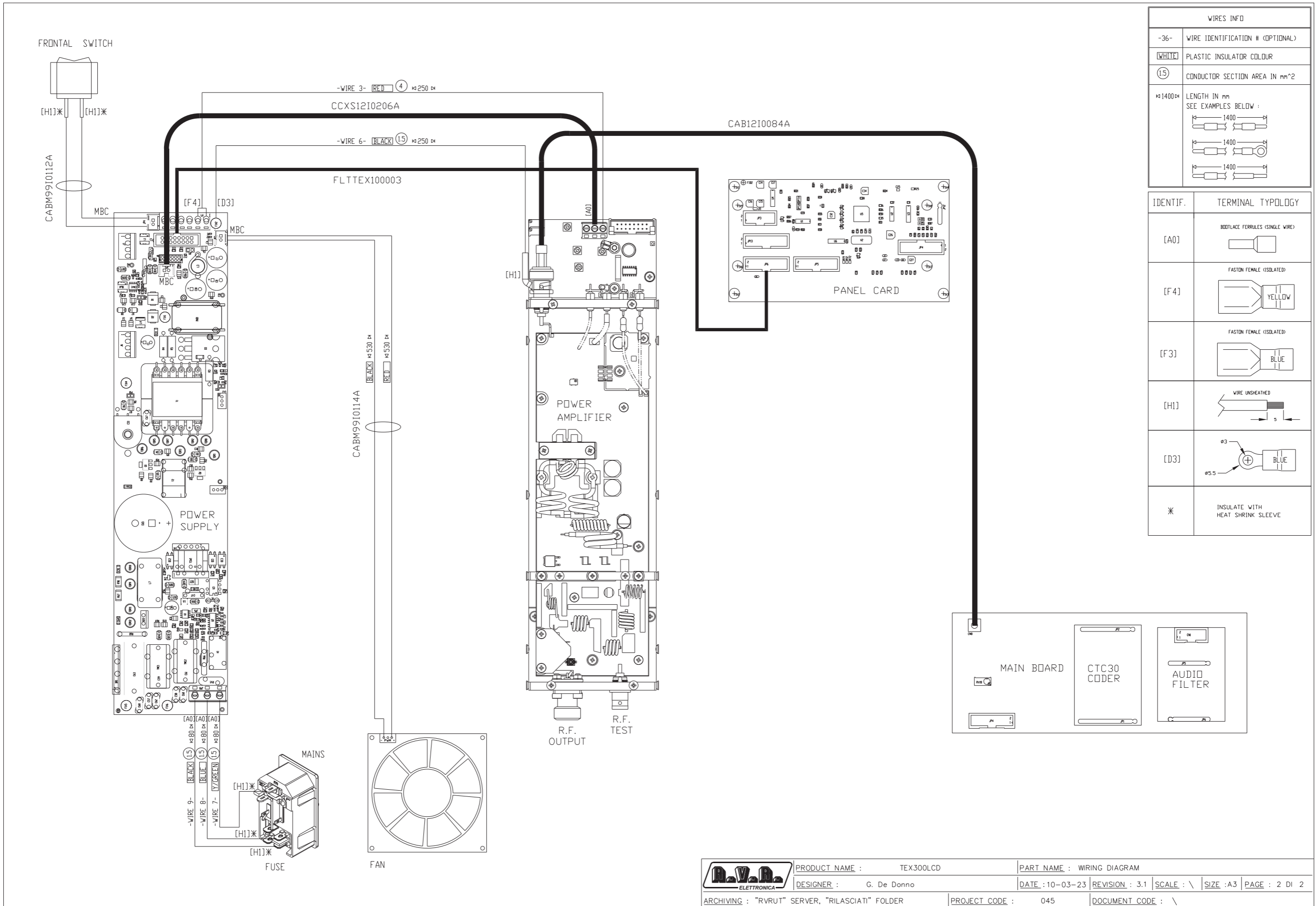
| Date | Version | Reason | Code | Editor |
|------------|---------|---|------|------------|
| 26/06/2019 | 2.0 | First Release (Version 2) | / | J.H. Berti |
| 10/03/2023 | 2.1 | SLMA0383R02V01, SLCNTMOS07.300, SLPS0468R01V02, SLRF0408R03V01 & SLTL0509R01V01 upgrade | / | J.H. Berti |

TEX300LCD

| Spare Parts Name | Spare Parts Code |
|-----------------------------|---------------------------|
| Switching power supply | KPSL5012R01A + SP-SRG085A |
| Mosfet with plate | KKTRNMRFE6VP660 |
| RF final section | SP-FIN045A |
| Main audio card + PLL + VCO | SP-MBD175A |
| CPU panel & Display | SP-PAN175A |
| Telemetry | SP-TLM175A |
| Fan | VTL9G0824G102 |



| | | | | | |
|-------------|-------------------------------------|----------------|-------------|-----------------|---|
| | PRODUCT NAME : | TEX300LCD | PART NAME : | WIRING DIAGRAM | |
| | DESIGNER : | G. De Donno | DATE : | 10-03-23 | |
| ARCHIVING : | "RVRUT" SERVER, "RILASCIATI" FOLDER | PROJECT CODE : | 045 | DOCUMENT CODE : | \ |
| | | | REVISION : | 3.1 | |
| | | | SCALE : | \ | |
| | | | SIZE : | A3 | |
| | | | PAGE : | 1 DI 2 | |

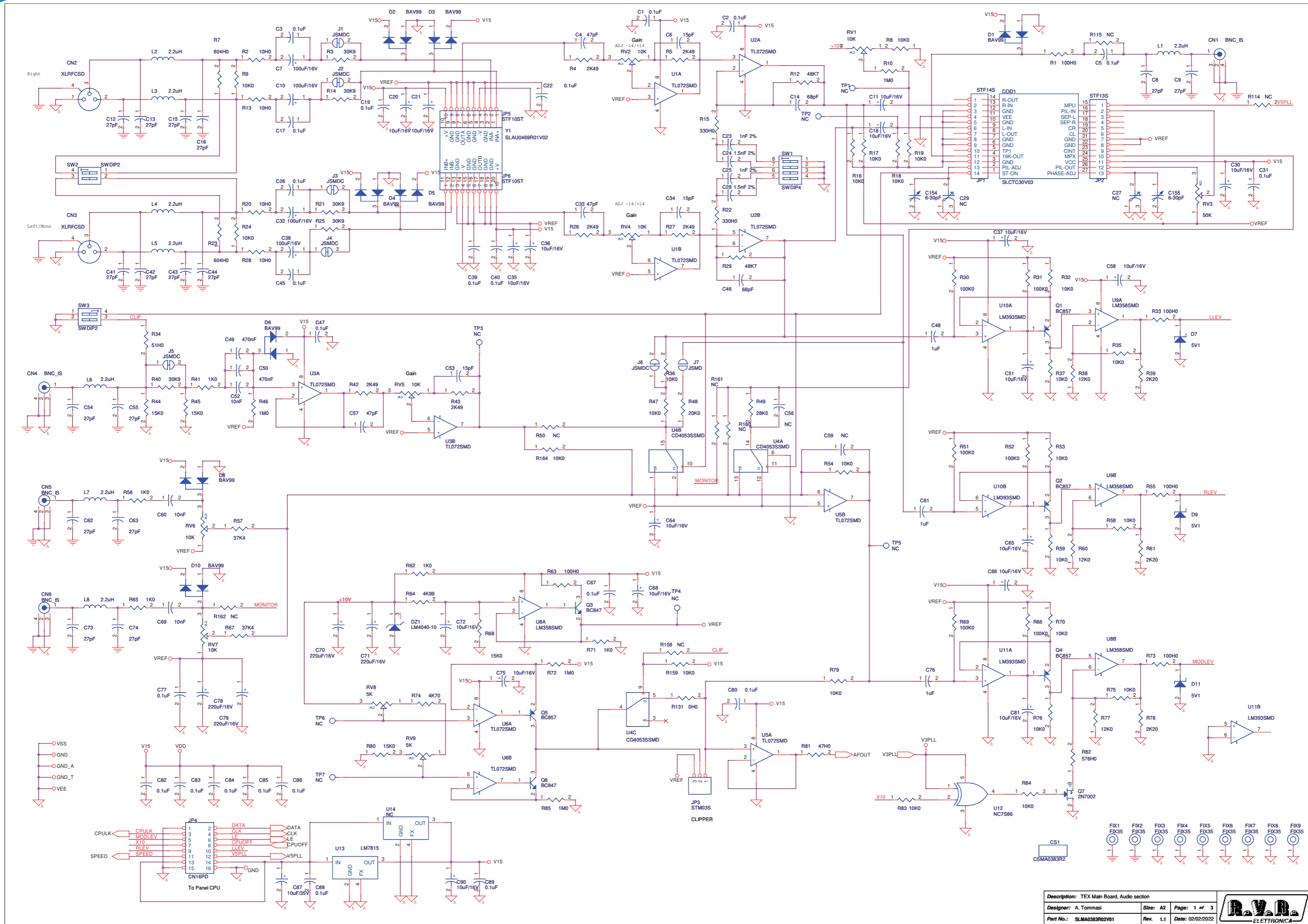


| WIRES INFO | |
|------------|---|
| -36- | WIRE IDENTIFICATION # (OPTIONAL) |
| WHITE | PLASTIC INSULATOR COLOUR |
| 1.5 | CONDUCTOR SECTION AREA IN mm ² |
| 1400 | LENGTH IN mm SEE EXAMPLES BELOW : |
| | |
| | |
| | |

| IDENTIF. | TERMINAL TYPOLOGY |
|----------|-------------------------------------|
| [A0] | BOOTLACE FERRULES (SINGLE WIRE) |
| [F 4] | FASTON FEMALE (ISOLATED) |
| [F 3] | FASTON FEMALE (ISOLATED) |
| [H1] | WIRE UNSHEATHED |
| [D3] | |
| * | INSULATE WITH HEAT SHRINK SLEEVE |

| | | | | | |
|--|--------------------------|----------------------------|----------------|-----------|-----------|
| | PRODUCT NAME : TEX300LCD | PART NAME : WIRING DIAGRAM | | | |
| | DESIGNER : G. De Donno | DATE : 10-03-23 | REVISION : 3.1 | SCALE : \ | SIZE : A3 |
| ARCHIVING : "RVUT" SERVER, "RILASCIATI" FOLDER | PROJECT CODE : 045 | DOCUMENT CODE : \ | | | |

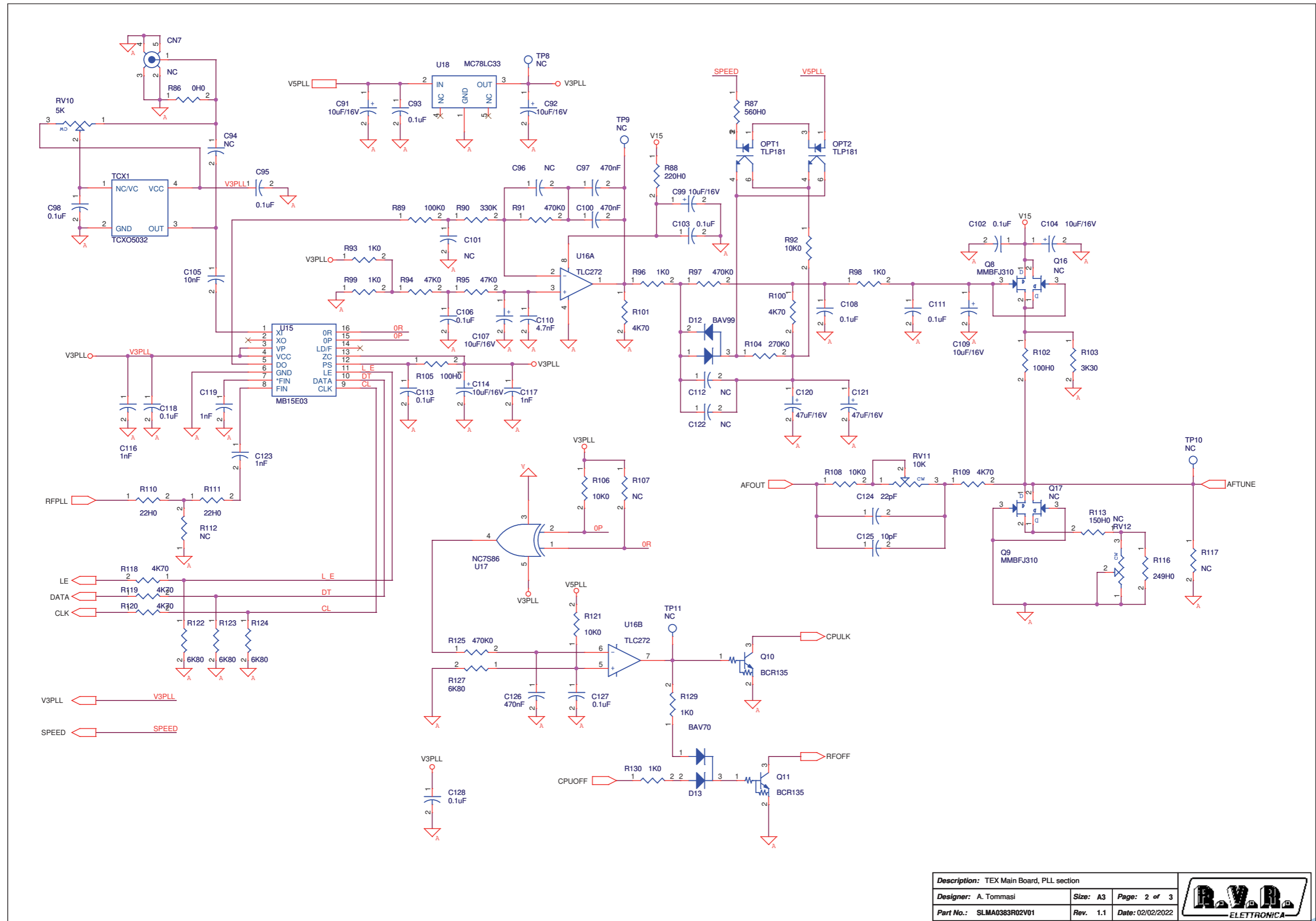
SLMA0383R02V01



| | | |
|--|----------|------------------|
| Description: TEX Main Board, Audio section | | |
| Designer: A. Tommasi | Size: A2 | Page: 1 of 3 |
| Part No.: SLMA0383R02V01 | Rev. 1.1 | Date: 02/02/2022 |

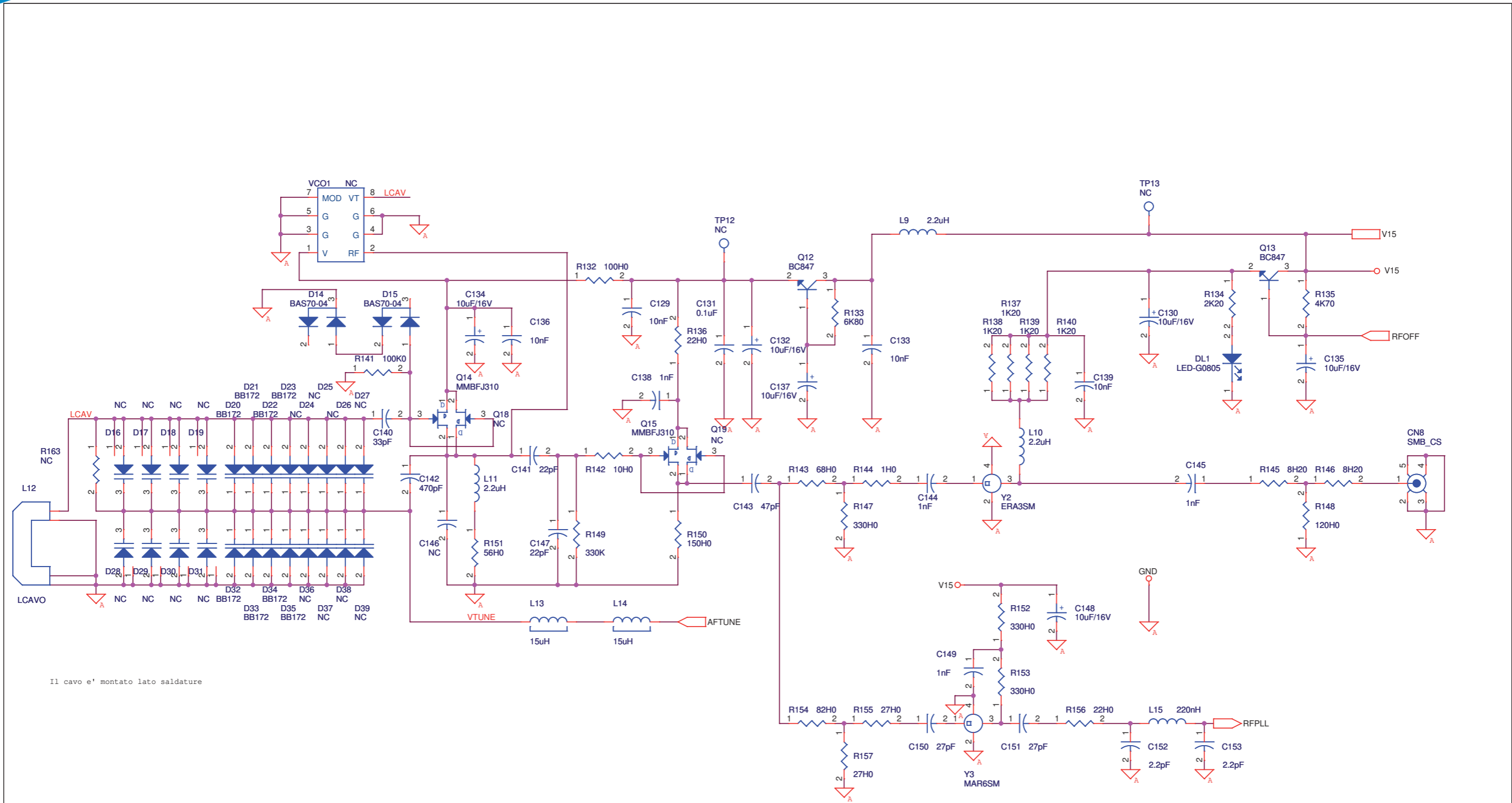


SLMA0383R02V01



| | | |
|---|------------------|-------------------------|
| Description: TEX Main Board, PLL section | | |
| Designer: A. Tommasi | Size: A3 | Page: 2 of 3 |
| Part No.: SLMA0383R02V01 | Rev.: 1.1 | Date: 02/02/2022 |





Il cavo e' montato lato saldature

| | | | |
|--|----------|------------------|--|
| Description: TEX Main Board, VCO section | | | |
| Designer: A. Tommasi | Size: A3 | Page: 3 of 3 | |
| Part No.: SLMA0383R02V01 | Rev. 1.1 | Date: 02/02/2022 | |

SLMA0383R02V01

TEX Main Board Revised: 02/02/2022
 SLMA0383R02V01 Revision: 1.1
 A. Tommasi

| Item | Quantity | Reference | Part | Description |
|------|----------|--|------------|-----------------------------------|
| 1 | 4 | CN1, CN4, CN5, CN6 | BNC_JS | BNC conn. 10x10 PCB |
| 2 | 2 | CN2, CN3 | XLRFCSD | XLR fem. PCB conn. |
| 3 | 1 | CN7 | NC | SMB pcb conn. |
| 4 | 1 | CN8 | SMB_CS | SMB pcb conn. |
| 5 | 1 | COD1 | SLCTC30V03 | Stereo coder CTC30 |
| 6 | 1 | CS1 | CSMA0383R2 | PCB |
| 7 | 36 | C1, C2, C3, C5, C17, C19, C22, C26, C31, C39, C40, C45, C47, C67, C77, C80, C82, C83, C84, C85, C86, C88, C89, C93, C95, C98, C102, C103, C106, C108, C111, C113, C118, C127, C128, C131 | 0.1uF | 0805 SMD capacitor |
| 8 | 4 | C4, C33, C57, C143 | 47pF | 0805 SMD capacitor |
| 9 | 3 | C6, C34, C53 | 15pF | 0805 SMD capacitor |
| 10 | 4 | C7, C10, C32, C38 | 100uF/16V | SMD electr. cap. 6.3mm |
| 11 | 18 | C8, C9, C12, C13, C15, C16, C41, C42, C43, C44, C54, C55, C62, C63, C73, C74, C150, C151 | 27pF | 0805 SMD capacitor |
| 12 | 30 | C11, C18, C20, C21, C30, C35, C36, C37, C51, C58, C64, C65, C66, C68, C72, C75, C81, C90, C91, C92, C99, C104, C107, C114, C130, C132, C134, C135, C137, C148 | 10uF/16V | Cond. Elett. SMD d. 4mm |
| 13 | 2 | C14, C46 | 68pF | 0805 SMD capacitor |
| 14 | 2 | C23, C25 | 1nF 2% | 0805 SMD capacitor COG |
| 15 | 2 | C24, C28 | 1.5nF 2% | 0805 SMD capacitor COG |
| 16 | 2 | C27, C29 | NC | Ceramic comp. dia. 7mm |
| 17 | 3 | C48, C61, C76 | 1uF | 0805 SMD capacitor |
| 18 | 3 | C49, C50, C126 | 470nF | 0805 SMD capacitor |
| 19 | 8 | C52, C60, C69, C105, C129, C133, C136, C139 | 10nF | 0805 SMD capacitor |
| 20 | 6 | C56, C59, C94, C96, C101, C146 | NC | 0805 SMD capacitor |
| 21 | 4 | C70, C71, C78, C79 | 220uF/16V | SMD electr. cap. 6.3mm |
| 22 | 1 | C87 | 10uF/35V | SMD electr. cap. 5mm |
| 23 | 2 | C97, C100 | 470nF | 1206 SMD capacitor |
| 24 | 1 | C109 | 10uF/16V | SMD tantalium cap. size C |
| 25 | 1 | C110 | 4.7nF | 0805 SMD capacitor |
| 26 | 2 | C112, C122 | NC | 1206 SMD capacitor |
| 27 | 8 | C116, C117, C119, C123, C138, C144, C145, C149 | 1nF | 0805 SMD capacitor |
| 28 | 2 | C120, C121 | 47uF/16V | SMD tantalium cap. size D |
| 29 | 3 | C124, C141, C147 | 22pF | 0805 SMD capacitor |
| 30 | 1 | C125 | 10pF | 0805 SMD capacitor |
| 31 | 1 | C140 | 33pF | 0805 SMD capacitor |
| 32 | 1 | C142 | 470pF | 0805 SMD capacitor |
| 33 | 2 | C152, C153 | 2.2pF | 0805 SMD capacitor |
| 34 | 2 | C154, C155 | 6-30pF | Var. comp. Murata TZB4A |
| 35 | 1 | DL1 | LED-G0805 | SMD 0805 green led |
| 36 | 1 | DZ1 | LM4040-10 | SMD SOT23 precision Zener |
| 37 | 9 | D1, D2, D3, D4, D5, D6, D8, D10, D12 | BAV99 | Dual diode SMD SOT23 |
| 38 | 3 | D7, D9, D11 | 5V1 | MINIMELF SMD Zener Diode |
| 39 | 1 | D13 | BAV70 | Dual diode SMD SOT23 |
| 40 | 2 | D14, D15 | BAS70-04 | Dual diode SMD SOT23 |
| 41 | 8 | D16, D17, D18, D19, D28, D29, D30, D31 | NC | Dual diode Varicap SMD SOT23 |
| 42 | 8 | D20, D21, D22, D23, D32, D33, D34, D35 | BB172 | Varicap diode SOD323 |
| 43 | 8 | D24, D25, D26, D27, D36, D37, D38, D39 | NC | Varicap diode SOD323 |
| 44 | 9 | FIX1, FIX2, FIX3, FIX4, FIX5, FIX6, FIX7, FIX8, FIX9 | FIX35 | Fixing hole 3.5mm |
| 45 | 1 | JP1 | STF145 | Female strip 14 pin |
| 46 | 1 | JP2 | STF135 | Female strip 13 pin |
| 47 | 1 | JP3 | STM035 | Male strip 3 pin |
| 48 | 1 | JP4 | CN16PD | 16 way pcb conn. with holder |
| 49 | 2 | JP5, JP6 | STF10ST | Male strip 10 pin turned |
| 50 | 6 | J1, J2, J3, J4, J5, J6 | JSMDC | 2 pad SMD jumper half closed |
| 51 | 1 | J7 | JSMC | pad SMD jumper |
| 52 | 11 | L1, L2, L3, L4, L5, L6, L7, L8, L9, L10, L11 | 2.2uH | SMD inductor 3225 (1210) |
| 53 | 1 | L12 | LCAVO | Induttanza a cavo RG |
| 54 | 2 | L13, L14 | 15uH | SMD inductor 3225 (1210) shielded |
| 55 | 1 | L15 | 220nH | SMD inductor 3225 (1210) |
| 56 | 2 | OPT1, OPT2 | TLP181 | Optocoupler SMD SO6 |
| 57 | 4 | Q1, Q2, Q4, Q5 | BC857 | PNP trans. SOT23 |
| 58 | 4 | Q3, Q6, Q12, Q13 | BC847 | NPN trans. SOT23 |
| 59 | 1 | Q7 | 2N7002 | Trans. FET SOT23 |
| 60 | 4 | Q8, Q9, Q14, Q15 | MMBFJ310 | Trans. FET SOT23 |
| 61 | 2 | Q10, Q11 | BCR135 | Digital NPN trans. SOT23 |
| 62 | 4 | Q16, Q17, Q18, Q19 | NC | Trans. FET SOT23 |
| 63 | 2 | RV1, RV11 | 10K | Trimmer Rg V 3269W SMD |
| 64 | 5 | RV2, RV4, RV5, RV6, RV7 | 10K | Trimmer Rg V 3296W |
| 65 | 1 | RV3 | 50K | Trimmer Rg V 3296W |
| 66 | 2 | RV8, RV9 | 5K | Trimmer Rg V 3269W SMD |
| 67 | 1 | RV10 | 5K | Trimmer Rg V 3296W |
| 68 | 1 | RV12 | NC | Trimmer SMD |

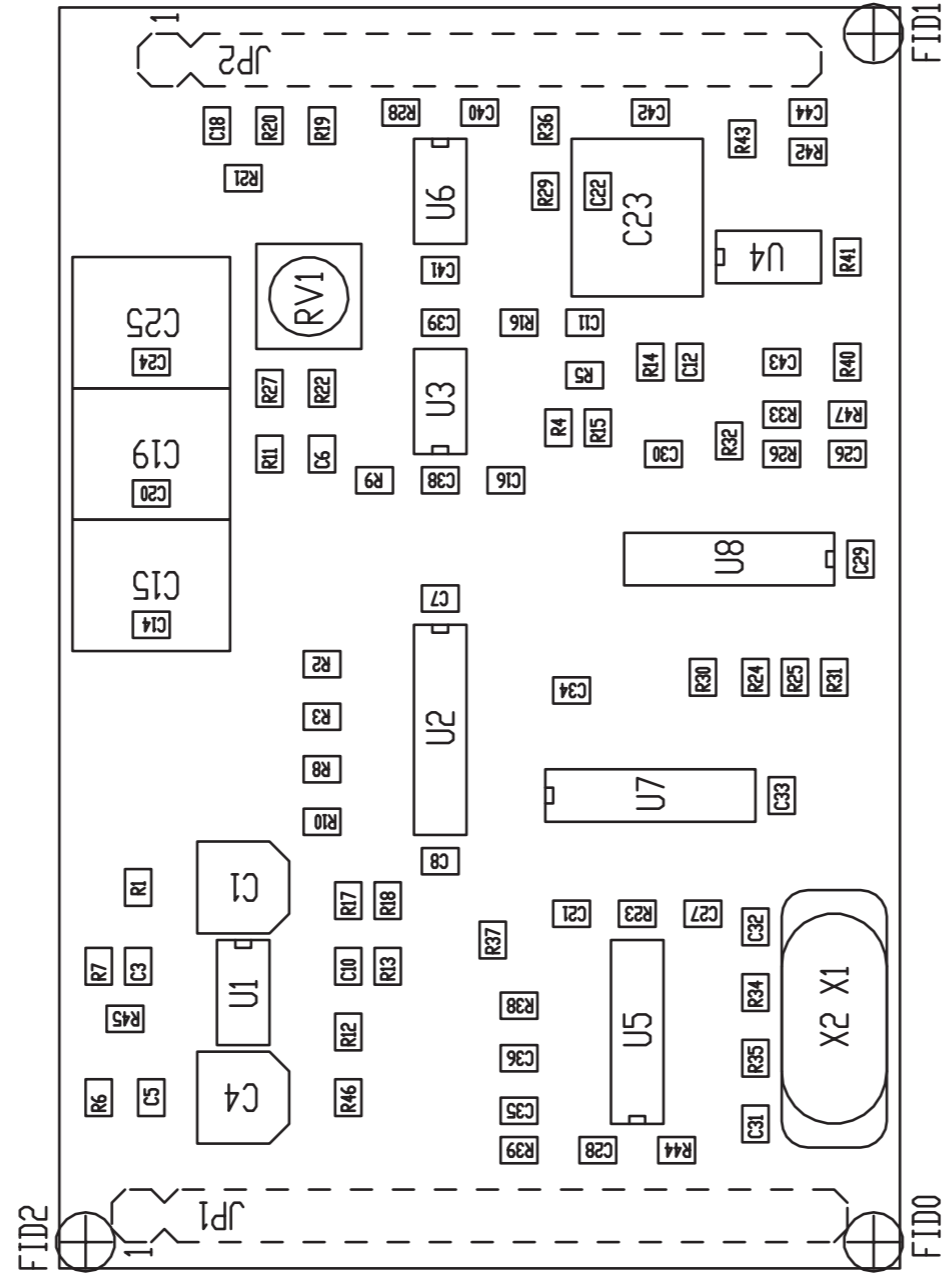
| Item | Quantity | Reference | Part | Description |
|------|----------|---|----------------|----------------------------|
| 69 | 8 | R1, R33, R55, R63, R73, R102, R105, R132 | 100H0 | 0805 SMD res. |
| 70 | 5 | R2, R13, R20, R28, R142 | 10H0 | 0805 SMD res. |
| 71 | 5 | R3, R14, R21, R25, R40 | 30K9 | 0805 SMD res. |
| 72 | 6 | R4, R5, R26, R27, R42, R43 | 2K49 | 0805 SMD res. |
| 73 | 2 | R7, R23 | 604H0 | 0805 SMD res. |
| 74 | 28 | R8, R9, R16, R17, R18, R19, R24, R32, R35, R36, R37, R47, R53, R54, R58, R59, R70, R75, R76, R79, R83, R84, R92, R106, R108, R121, R159, R164 | 10K0 | 0805 SMD res. |
| 75 | 4 | R10, R46, R72, R85 | 1M0 | 0805 SMD res. |
| 76 | 2 | R12, R29 | 48K7 | 0805 SMD res. |
| 77 | 5 | R15, R22, R147, R152, R153 | 330H0 | 0805 SMD res. |
| 78 | 8 | R30, R31, R51, R52, R66, R69, R89, R141 | 100K0 | 0805 SMD res. |
| 79 | 1 | R34 | 51H0 | 0805 SMD res. |
| 80 | 3 | R38, R60, R77 | 12K0 | 0805 SMD res. |
| 81 | 4 | R39, R61, R78, R134 | 2K20 | 0805 SMD res. |
| 82 | 11 | R41, R56, R62, R65, R71, R93, R96, R98, R99, R129, R130 | 1K0 | 0805 SMD res. |
| 83 | 4 | R44, R45, R68, R80 | 15K0 | 0805 SMD res. |
| 84 | 1 | R48 | 20K0 | 0805 SMD res. |
| 85 | 1 | R49 | 28K0 | 0805 SMD res. |
| 86 | 11 | R50, R107, R112, R114, R115, R117, R158, R160, R161, R162, R163 | NC | 0805 SMD res. |
| 87 | 2 | R57, R67 | 37K4 | 0805 SMD res. |
| 88 | 1 | R64 | 4K99 | 0805 SMD res. |
| 89 | 8 | R74, R100, R101, R109, R118, R119, R120, R135 | 4K70 | 0805 SMD res. |
| 90 | 1 | R81 | 47H0 | 0805 SMD res. |
| 91 | 1 | R82 | 576H0 | 0805 SMD res. |
| 92 | 2 | R86, R131 | 0H0 | 0805 SMD res. |
| 93 | 1 | R87 | 560H0 | 0805 SMD res. |
| 94 | 1 | R88 | 220H0 | 0805 SMD res. |
| 95 | 2 | R90, R149 | 330K0 | 0805 SMD res. |
| 96 | 3 | R91, R97, R125 | 470K0 | 0805 SMD res. |
| 97 | 2 | R94, R95 | 47K0 | 0805 SMD res. |
| 98 | 1 | R103 | 3K30 | 0805 SMD res. |
| 99 | 1 | R104 | 270K0 | 0805 SMD res. |
| 100 | 4 | R110, R111, R136, R156 | 22H0 | 0805 SMD res. |
| 101 | 2 | R113, R150 | 150H0 | 0805 SMD res. |
| 102 | 1 | R116 | 249H0 | 0805 SMD res. |
| 103 | 5 | R122, R123, R124, R127, R133 | 6K80 | 0805 SMD res. |
| 104 | 4 | R137, R138, R139, R140 | 1K20 | 0805 SMD res. |
| 105 | 1 | R143 | 68H0 | 0805 SMD res. |
| 106 | 1 | R144 | 1H0 | 0805 SMD res. |
| 107 | 2 | R145, R146 | 8H20 | 0805 SMD res. |
| 108 | 1 | R148 | 120H0 | 0805 SMD res. |
| 109 | 1 | R151 | 56H0 | 0805 SMD res. |
| 110 | 1 | R154 | 82H0 | 0805 SMD res. |
| 111 | 2 | R155, R157 | 27H0 | 0805 SMD res. |
| 112 | 1 | SW1 | SWDIP4 | 4 ways switch slide dip |
| 113 | 2 | SW2, SW3 | SWDIP2 | 2 ways switch slide dip |
| 114 | 1 | TCX1 | 10MHz | TCXO SMD 5x3.2mm |
| 115 | 13 | TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13 | NC | Test point |
| 116 | 5 | U1, U2, U3, U5, U6 | TL072SMD | Dual Op. SMD SO8 |
| 117 | 1 | U4 | CD4053SSMD | Analog Switch SMD SO16 |
| 118 | 2 | U8, U9 | LM358SMD | Dual Op. SMD SO8 |
| 119 | 2 | U10, U11 | LM393SMD | Dual Comp. SMD SO8 |
| 120 | 2 | U12, U17 | NC7S86 | XOR Port |
| 121 | 1 | U13 | LM7815 | Voltage reg. TO220 |
| 122 | 1 | U14 | NC | Voltage reg. SMD D2PAK |
| 123 | 1 | U15 | MB15E03 | Integrated PLL |
| 124 | 1 | U16 | TLC272 | Dual Op. SMD SO8 |
| 125 | 1 | U18 | MC78LC33 | SOT23-5 voltage regulator" |
| 126 | 1 | VCO1 | NC | VCO SKY 8 pin FVC7MD |
| 127 | 1 | Y1 | SLAU0469R01V02 | Audio stereo filter |
| 128 | 1 | Y2 | ERA35M | Hybrid MAR/ERA |
| 129 | 1 | Y3 | MAR65M | Hybrid MAR/ERA |

SLMA0383R01V01

| | | |
|-----|--|----------|
| | R53,R54,R58,R59,R70,R75, R76,R79,R83,R84,R92,R106, R108,R121,R159,R164 | |
| 74 | 4 R10,R46,R72,R85 | 1M0 |
| 75 | 2 R12,R29 | 48K7 |
| 76 | 5 R15,R22,R147,R152,R153 | 330H0 |
| 77 | 8 R30,R31,R51,R52,R66,R69, R89,R141 | 100K0 |
| 78 | 1 R34 | 51H0 |
| 79 | 3 R38,R60,R77 | 12K0 |
| 80 | 4 R39,R61,R78,R134 | 2K20 |
| 81 | 11 R41,R56,R62,R65,R71,R93, R96,R98,R99,R129,R130 | 1K0 |
| 82 | 4 R44,R45,R68,R80 | 15K0 |
| 83 | 1 R48 | 20K0 |
| 84 | 1 R49 | 28K0 |
| 85 | 12 R50,R107,R114,R115,R116, R117,R158,R160,R161,R162, R163,R112 | NC |
| 86 | 2 R57,R67 | 37K4 |
| 87 | 1 R64 | 4K99 |
| 88 | 8 R74,R100,R101,R109, R118,R119,R120,R135 | 4K70 |
| 89 | 1 R81 | 47H0 |
| 90 | 1 R82 | 576H0 |
| 91 | 2 R86,R131 | 0H0 |
| 92 | 1 R87 | 560H0 |
| 93 | 1 R88 | 220H0 |
| 94 | 2 R90,R149 | 330K |
| 95 | 3 R91,R97,R125 | 470K0 |
| 96 | 2 R94,R95 | 47K0 |
| 97 | 1 R103 | 3K30 |
| 98 | 1 R104 | 270K0 |
| 99 | 4 R110,R111,R136,R156 | 22H0 |
| 100 | 2 R113,R150 | 150H0 |
| 101 | 1 R116 | 249H0 |
| 102 | 5 R122,R123,R124,R127,R133 | 6K80 |
| 103 | 4 R137,R138,R139,R140 | 1K20 |
| 104 | 1 R143 | 68H0 |
| 105 | 1 R144 | 1H0 |
| 106 | 2 R145,R146 | 8H20 |
| 107 | 1 R148 | 120H0 |
| 108 | 1 R151 | 56H0 |
| 109 | 1 R154 | 82H0 |
| 110 | 2 R155,R157 | 27H0 |
| 111 | 1 SW1 | SWDIP4 |
| 112 | 2 SW2,SW3 | SWDIP2 |
| 113 | 1 TCX1 | TCXO5032 |
| 114 | 13 TP1,TP2,TP3,TP4,TP5,TP6, TP7,TP8,TP9,TP10,TP11, TP12,TP13 | NC |
| 115 | 5 U1,U2,U3,U5,U6 | TL072SMD |

| | | |
|-----|-----------|----------------|
| 116 | 1 U4 | CD4053SSMD |
| 117 | 2 U8,U9 | LM358SMD |
| 118 | 2 U10,U11 | LM393SMD |
| 119 | 2 U12,U17 | NC7S86 |
| 120 | 1 U13 | LM7815 |
| 121 | 1 U14 | NC |
| 122 | 1 U15 | MB15E03 |
| 123 | 1 U16 | TLC272 |
| 124 | 1 U18 | MC78LC33 |
| 125 | 1 VCO1 | NC |
| 126 | 1 Y1 | SLAU0469R01V02 |
| 127 | 1 Y2 | ERA3SM |
| 128 | 1 Y3 | MAR6SM |

SLCTC30V03



NOME PROGETTO: PTX-LCD

NOME PARTE: CODER CARD

AUTORE: A. TOMMASI

PAGINA: 1 DI 1

ARCHIVIAZIONE ELETTRONICA: \\VRUT\

REVISIONE: 1.0

SCALE: 2:1

SIZE: A4

MATERIALE:

TRATTAMENTO:

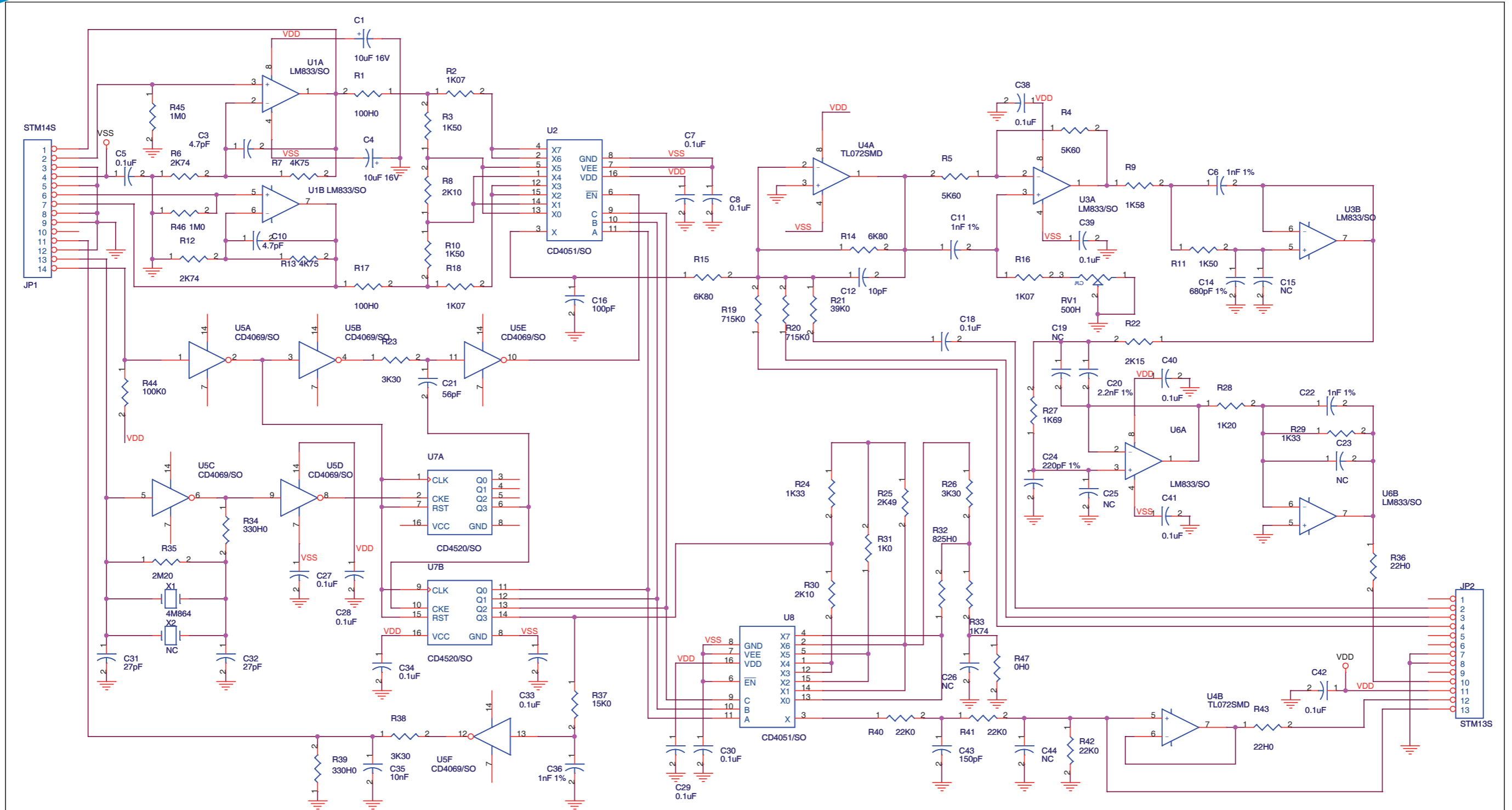
CODICE PROGETTO: 011

CODICE DISEGNO: SLCTC30V03

PROFILO:

STATO: ESECUTIVO

SLCTC30V03



CS1
CSCTC30V03

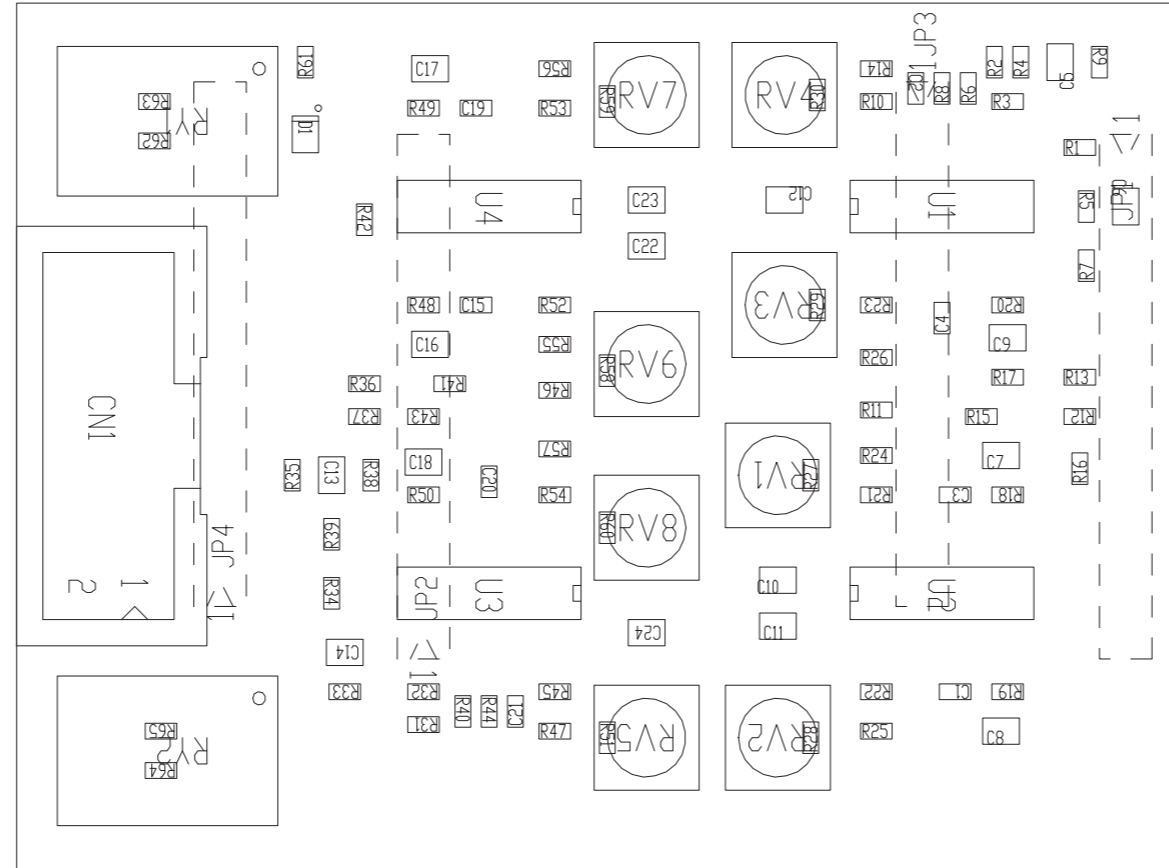
| | | |
|-------------------------|----------|------------------|
| Description: Coder Card | | |
| Designer: A. Tommasi | Size: A3 | Page: 1 of 1 |
| Part No.: SLCTC30V03 | Rev. 1.2 | Date: 26/01/2015 |



SLCTC30V03

Coder Card Revised: 26/01/2015
 SLCTC30V03 Revision: 1.2
 A. Tommasi

| Item | Q.ty | Reference | Part | Description |
|------|------|--|------------|--------------------------------|
| 1 | 1 | CS1 | CSCTC30V03 | Circuito stampato |
| 2 | 2 | C1, C4 | 10uF 16V | Cond. Elett. SMD d. 4mm |
| 3 | 2 | C3, C10 | 4.7pF | Cond. SMD 0805 |
| 4 | 15 | C5, C7, C8, C18, C27, C28, C29, C30, C33, C34, C38, C39, C40, C41, C42 | 0.1uF | Cond. SMD 0805 |
| 5 | 4 | C6, C11, C22, C36 | 1nF 1% | Cond. SMD 0805 COG |
| 6 | 1 | C12 | 10pF | Cond. SMD 0805 |
| 7 | 1 | C14 | 680pF 1% | Cond. SMD 0805 COG |
| 8 | 4 | C15, C19, C23, C25 | NC | Cond. Poliestere p 5mm (5*7mm) |
| 9 | 1 | C16 | 100pF | Cond. SMD 0805 |
| 10 | 1 | C20 | 2.2nF 1% | Cond. SMD 0805 COG |
| 11 | 1 | C21 | 56pF | Cond. SMD 0805 |
| 12 | 1 | C24 | 220pF 1% | Cond. SMD 0805 COG |
| 13 | 1 | C26 | NC | Cond. SMD 0805 |
| 14 | 2 | C31, C32 | 27pF | Cond. SMD 0805 |
| 15 | 1 | C35 | 10nF | Cond. SMD 0805 |
| 16 | 1 | C43 | 150pF | Cond. SMD 0805 |
| 17 | 1 | C44 | NC | Cond. SMD 0805 |
| 18 | 1 | JP1 | STM14S | Strip maschio 14 pin |
| 19 | 1 | JP2 | STM13S | Strip maschio 13 pin |
| 20 | 1 | RV1 | 500H | Trimmer SMD |
| 21 | 2 | R1, R17 | 100H0 | Res. SMD 0805 |
| 22 | 3 | R2, R16, R18 | 1K07 | Res. SMD 0805 |
| 23 | 3 | R3, R10, R11 | 1K50 | Res. SMD 0805 |
| 24 | 2 | R4, R5 | 5K60 | Res. SMD 0805 |
| 25 | 2 | R6, R12 | 2K74 | Res. SMD 0805 |
| 26 | 2 | R7, R13 | 4K75 | Res. SMD 0805 |
| 27 | 2 | R8, R30 | 2K10 | Res. SMD 0805 |
| 28 | 1 | R9 | 1K58 | Res. SMD 0805 |
| 29 | 2 | R14, R15 | 6K80 | Res. SMD 0805 |
| 30 | 2 | R19, R20 | 715K0 | Res. SMD 0805 |
| 31 | 1 | R21 | 39K0 | Res. SMD 0805 |
| 32 | 1 | R22 | 2K15 | Res. SMD 0805 |
| 33 | 3 | R23, R26, R38 | 3K30 | Res. SMD 0805 |
| 34 | 2 | R24, R29 | 1K33 | Res. SMD 0805 |
| 35 | 1 | R25 | 2K49 | Res. SMD 0805 |
| 36 | 1 | R27 | 1K69 | Res. SMD 0805 |
| 37 | 1 | R28 | 1K20 | Res. SMD 0805 |
| 38 | 1 | R31 | 1K0 | Res. SMD 0805 |
| 39 | 1 | R32 | 825H0 | Res. SMD 0805 |
| 40 | 1 | R33 | 1K74 | Res. SMD 0805 |
| 41 | 2 | R34, R39 | 330H0 | Res. SMD 0805 |
| 42 | 1 | R35 | 2M20 | Res. SMD 0805 |
| 43 | 2 | R36, R43 | 22H0 | Res. SMD 0805 |
| 44 | 1 | R37 | 15K0 | Res. SMD 0805 |
| 45 | 3 | R40, R41, R42 | 22K0 | Res. SMD 0805 |
| 46 | 1 | R44 | 100K0 | Res. SMD 0805 |
| 47 | 2 | R45, R46 | 1M0 | Res. SMD 0805 |
| 48 | 1 | R47 | 0H0 | Res. SMD 0805 |
| 49 | 3 | U1, U3, U6 | LM833/SO | Dual Op. SMD SO8 |
| 50 | 2 | U2, U8 | CD4051/SO | Analog Switch SMD SO16 |
| 51 | 1 | U4 | TL072SMD | Dual Op. SMD SO8 |
| 52 | 1 | U5 | CD4069/SO | Hex inverter SO14 |
| 53 | 1 | U7 | CD4520/SO | Dual binary counter |
| 54 | 1 | X1 | 4M864 | Quarzo SMD HC49SMD |
| 55 | 1 | X2 | NC | Quarzo HC18 |



PRODUCT NAME : TEX-LCD

DESIGNER : FRANCESCHI A.

ARCHIVING : "RVRUT" SERVER, "RILASCIATI" FOLDER

PART NAME : AUDID FILTER 15KHZ

DATE : 03/05/17

REVISION : 1.0

SCALE : 2:1

SIZE : A4

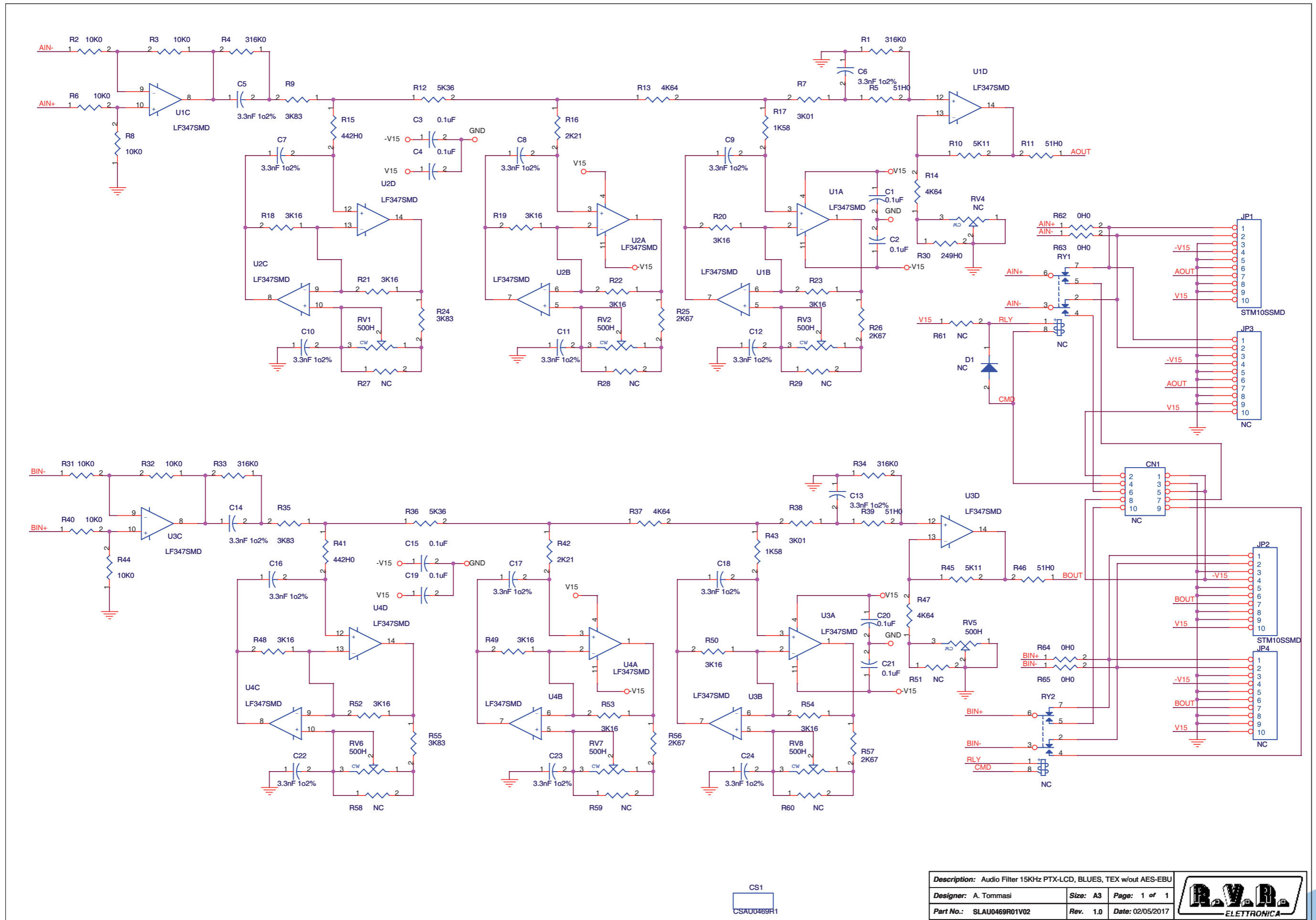
PAGE : 1

DI 1

DOCUMENT CODE : SLAU0469R01V**

PROJECT CODE : 057

SLAU0469R01V02



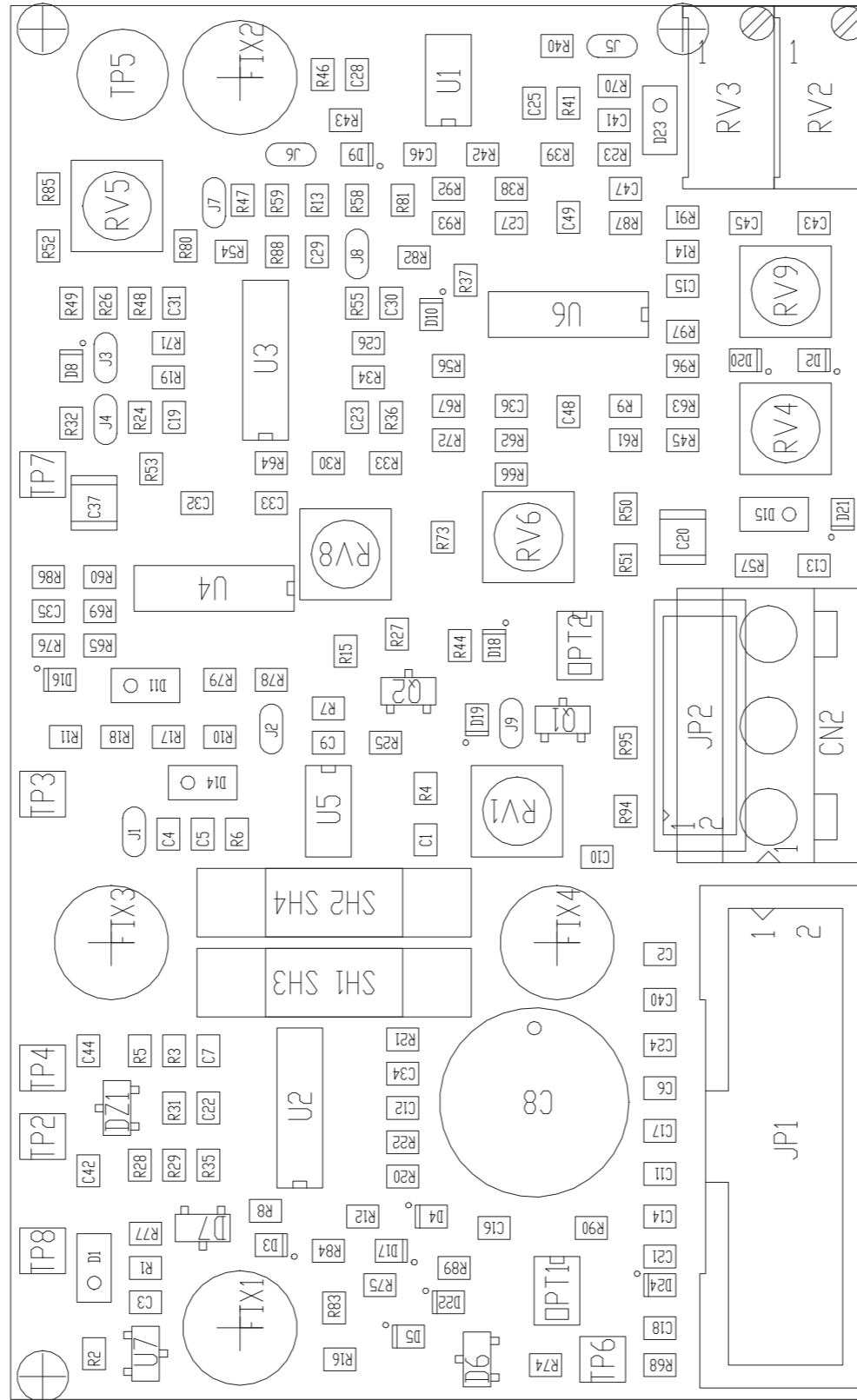
| | | |
|---|----------|------------------|
| Description: Audio Filter 15KHz PTX-LCD, BLUES, TEX w/out AES-EBU | | |
| Designer: A. Tommasi | Size: A3 | Page: 1 of 1 |
| Part No.: SLAU0469R01V02 | Rev. 1.0 | Date: 02/05/2017 |



SLAU0469R01V02

Audio Filter 15KHz PTX-LCD, BLUES, TEX w/out AES-EBU Revised: 02/05/2017
 SLAU0469R01V02 Revision: 1.0
 A. Tommasi

| Item | Quantity | Reference | Part | Description |
|------|----------|---|------------|----------------------------------|
| 1 | 1 | CN1 | NC | Conn. 10 poli Flat cs con alette |
| 2 | 1 | CS1 | CSAU0469R1 | Circuito stampato |
| 3 | 8 | C1, C2, C3, C4, C15, C19, C20, C21 | 0.1uF | Cond. SMD 0603 |
| 4 | 16 | C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C16, C17, C18, C22, C23, C24 | 3.3nF 1o2% | Cond. SMD 0805 COG |
| 5 | 1 | D1 | NC | SOD323 SMD Diode |
| 6 | 2 | JP1, JP2 | STM10SSMD | Male strip 10 pin SMD |
| 7 | 2 | JP3, JP4 | NC | Male strip 10 pin SMD |
| 8 | 7 | RV1, RV2, RV3, RV5, RV6, RV7, RV8 | 500H | Trimmer SMD V 3314 |
| 9 | 1 | RV4 | NC | Trimmer SMD V 3314 |
| 10 | 2 | RY1, RY2 | NC | Rele' FTR-B3G |
| 11 | 4 | R1, R4, R33, R34 | 316K0 | Res. SMD 0603 |
| 12 | 8 | R2, R3, R6, R8, R31, R32, R40, R44 | 10K0 | Res. SMD 0603 |
| 13 | 4 | R5, R11, R39, R46 | 51H0 | Res. SMD 0603 |
| 14 | 2 | R7, R38 | 3K01 | Res. SMD 0603 |
| 15 | 4 | R9, R24, R35, R55 | 3K83 | Res. SMD 0603 |
| 16 | 2 | R10, R45 | 5K11 | Res. SMD 0603 |
| 17 | 2 | R12, R36 | 5K36 | Res. SMD 0603 |
| 18 | 4 | R13, R14, R37, R47 | 4K64 | Res. SMD 0603 |
| 19 | 2 | R15, R41 | 442H0 | Res. SMD 0603 |
| 20 | 2 | R16, R42 | 2K21 | Res. SMD 0603 |
| 21 | 2 | R17, R43 | 1K58 | Res. SMD 0603 |
| 22 | 12 | R18, R19, R20, R21, R22, R23, R48, R49, R50, R52, R53, R54 | 3K16 | Res. SMD 0603 |
| 23 | 4 | R25, R26, R56, R57 | 2K67 | Res. SMD 0603 |
| 24 | 8 | R27, R28, R29, R51, R58, R59, R60, R61 | NC | Res. SMD 0603 |
| 25 | 1 | R30 | 249H0 | Res. SMD 0603 |
| 26 | 4 | R62, R63, R64, R65 | 0H0 | Res. SMD 0603 |
| 27 | 4 | U1, U2, U3, U4 | LF347SMD | Quad Op. SMD SO14 |



PRODUCT NAME : TEX

DESIGNER : FRANCESCHI A.

ARCHIVING : "RVRUT" SERVER, "RILASCIATI" FOLDER

PART NAME : CNTMOS PA RF R:07

DATE : 18/05/16

REVISION : 1.0

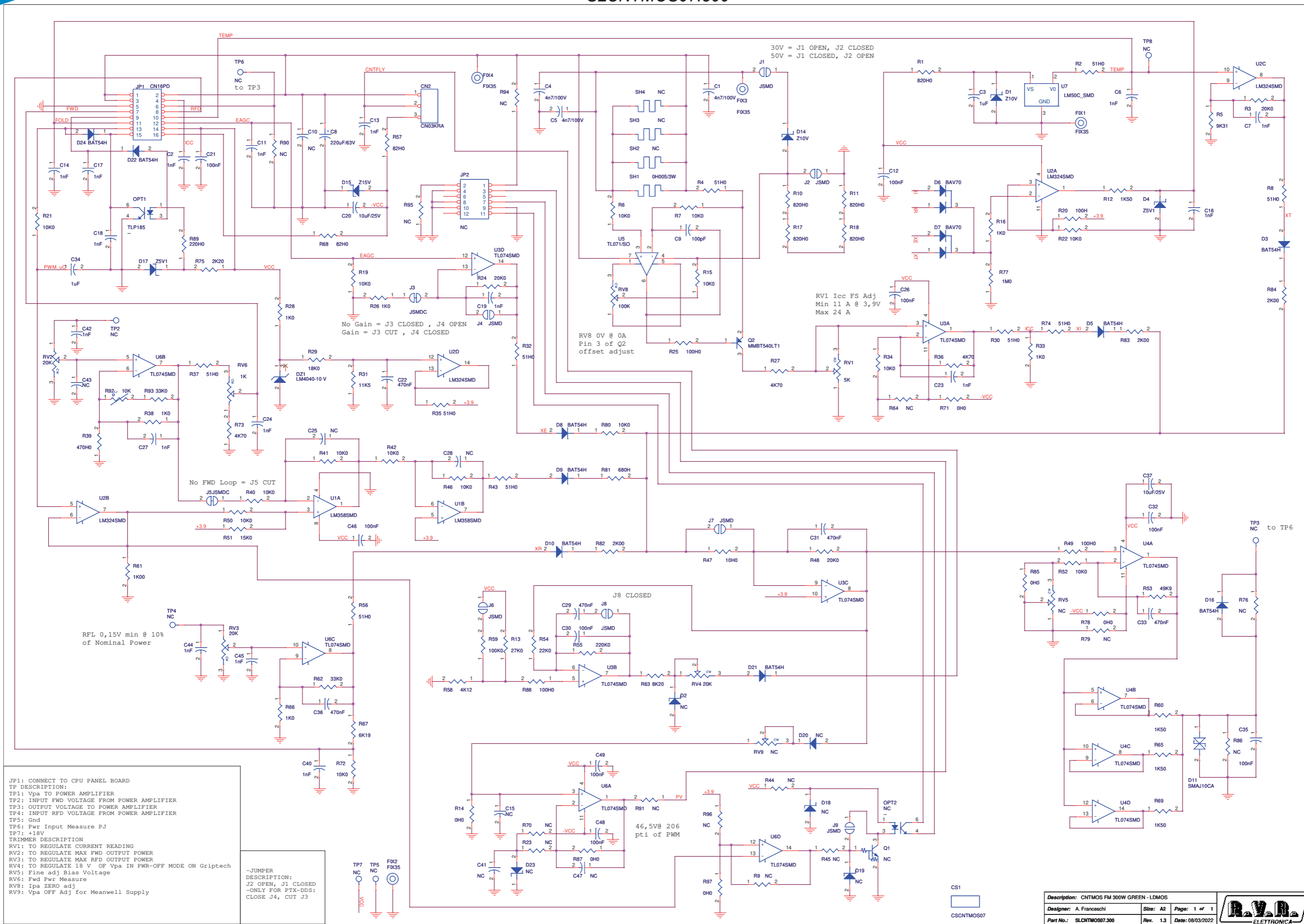
SCALE : 1:1

SIZE : A4

PAGE : 1

DI 1

DOCUMENT CODE : SLCNTMOS07.**



JP1: CONNECT TO CPU PANEL BOARD
 TP DESCRIPTION:
 TP1: Vpa TO POWER AMPLIFIER
 TP2: INPUT FWD VOLTAGE FROM POWER AMPLIFIER
 TP3: OUTPUT VOLTAGE TO POWER AMPLIFIER
 TP4: INPUT RFD VOLTAGE FROM POWER AMPLIFIER
 TP5: Gnd
 TP6: Pwr Input Measure PJ
 TP7: +18V
 TRIMMER DESCRIPTION
 RV1: TO REGULATE CURRENT READING
 RV2: TO REGULATE MAX FWD OUTPUT POWER
 RV3: TO REGULATE MAX RFD OUTPUT POWER
 RV4: TO REGULATE 18 V OF Vpa IN FWR-OFF MODE ON Griptech
 RV5: Fine adj Bias Voltage
 RV6: Fwd Pwr Measure
 RV8: Ipa ZERO adj
 RV9: Vpa OFF Adj for Meanwell Supply

-JUMPER
 DESCRIPTION:
 J2 OPEN, J1 CLOSED
 -ONLY FOR PTX-DDS:
 CLOSE J4, CUT J3

| | | |
|--|----------|------------------|
| Description: CNTMOS FM 300W GREEN - LD MOS | | |
| Designer: A. Franceschi | Size: A2 | Page: 1 of 1 |
| Part No.: SLCNTMOS7.300 | Rev: 1.3 | Date: 08/03/2022 |



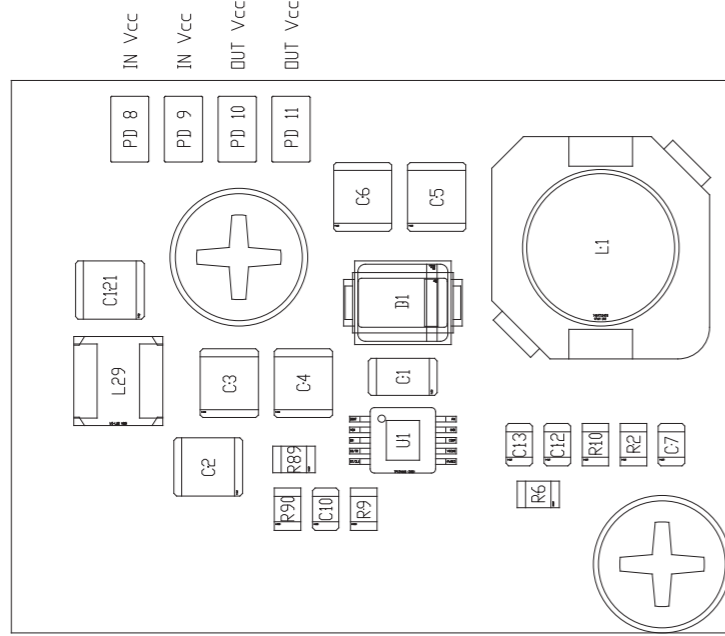
SLCNTMOS07.300

CNTMOS FM 300W GREEN - LDMOS Revised: Tuesday, March 08, 2022
 SLCNTMOS07.300 Revision: 1.3
 A. Franceschi

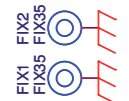
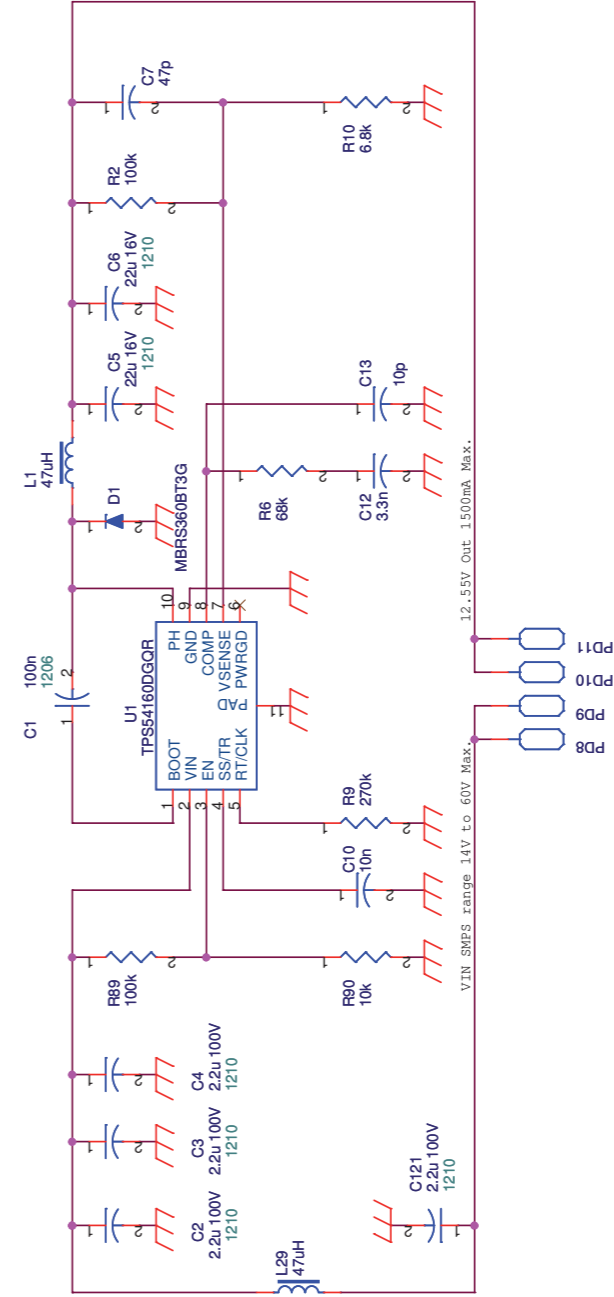
| Item | Quantity | Reference | Part | Description |
|------|----------|--|-------------|---------------------------------|
| 1 | 1 | CN2 | CN03KRA | Conn. tipo KRA a 3 poli |
| 2 | 1 | CS1 | CSCNTMOS07 | Circuito stampato |
| 3 | 3 | C1, C4, C5 | 4n7/100V | Cond. SMD 0805 |
| 4 | 17 | C2, C6, C7, C11, C13, C14, C16, C17, C18, C19, C23, C24, C27, C40, C42, C44, C45 | 1nF | Cond. SMD 0805 |
| 5 | 2 | C3, C34 | 1uF | Cond. SMD 0805 |
| 6 | 1 | C8 | 220uF/63V | Cond. Elettr. Dia 10 P5.08 |
| 7 | 1 | C9 | 100pF | Cond. SMD 0805 |
| 8 | 7 | C10, C15, C25, C28, C41, C43, C47 | NC | Cond. SMD 0805 |
| 9 | 9 | C12, C21, C26, C30, C32, C35, C46, C48, C49 | 100nF | Cond. SMD 0805 |
| 10 | 2 | C20, C37 | 10uF/25V | Cond. SMD 1210 |
| 11 | 5 | C22, C29, C31, C33, C36 | 470nF | Cond. SMD 0805 |
| 12 | 1 | DZ1 | LM4040-10 V | Diodi Zener SMD SOT23 |
| 13 | 2 | D1, D14 | Z10V | MINIMELF SMD Zener Diode |
| 14 | 3 | D2, D18, D19 | NC | SOD323 Zener Diode |
| 15 | 9 | D3, D5, D8, D9, D10, D16, D21, D22, D24 | BAT54H | SOD323 SMD Diode |
| 16 | 2 | D4, D17 | Z5V1 | SOD323 Zener Diode |
| 17 | 2 | D6, D7 | BAV70 | Doppio Diode SMD SOT23 |
| 18 | 1 | D11 | SMAJ10CA | Transzorb SMA |
| 19 | 1 | D15 | Z15V | MINIMELF SMD Zener Diode |
| 20 | 1 | D20 | NC | SOD323 SMD Diode |
| 21 | 1 | D23 | NC | MINIMELF SMD Zener Diode |
| 22 | 4 | FIX1, FIX2, FIX3, FIX4 | FIX35 | Foro fissaggio 3.5mm |
| 23 | 1 | JP1 | CN16PD | Conn.M.C.S.Dritto 16P alette. |
| 24 | 1 | JP2 | NC | Conn. 12 poli DF11 12pin p. 2mm |
| 25 | 7 | J1, J2, J4, J6, J7, J8, J9 | J5MD | Pad SMD a saldare |
| 26 | 2 | J3, J5 | J5MDC | Pad SMD a saldare chiuso |
| 27 | 1 | OPT1 | TLP185 | Optocoupler SMD SO6 |
| 28 | 1 | OPT2 | NC | Optocoupler SMD SO6 |
| 29 | 1 | Q1 | NC | Trans./Res. NPN SOT23 |
| 30 | 1 | Q2 | MMBT540LT1 | Trans. PNP SOT23 |
| 31 | 1 | RV1 | 5K | Trimmer SMD |
| 32 | 2 | RV2, RV3 | 20K | Trimmer Rg V 3296W |
| 33 | 1 | RV4 | 20K | Trimmer SMD |
| 34 | 2 | RV5, RV9 | NC | Trimmer SMD |
| 35 | 1 | RV6 | 1K | Trimmer SMD |
| 36 | 1 | RV8 | 100K | Trimmer SMD |
| 37 | 5 | R1, R10, R11, R17, R18 | 820H0 | Res. SMD 0805 1% |
| 38 | 10 | R2, R4, R8, R30, R32, R35, R37, R43, R56, R74 | 51H0 | Res. SMD 0805 1% |
| 39 | 3 | R3, R24, R48 | 20K0 | Res. SMD 0805 1% |
| 40 | 1 | R5 | 9K31 | Res. SMD 0805 1% |
| 41 | 15 | R6, R7, R15, R19, R21, R22, R34, R40, R41, R42, R46, R50, R52, R72, R80 | 10K0 | Res. SMD 0805 1% |
| 42 | 14 | R9, R23, R44, R45, R64, R70, R76, R79, R86, R90, R91, R94, R95, R96 | NC | Res. SMD 0805 1% |
| 43 | 4 | R12, R60, R65, R69 | 1K50 | Res. SMD 0805 1% |
| 44 | 1 | R13 | 27K0 | Res. SMD 0805 1% |
| 45 | 6 | R14, R71, R78, R85, R87, R97 | 0H0 | Res. SMD 0805 1% |
| 46 | 6 | R16, R26, R28, R33, R38, R66 | 1K0 | Res. SMD 0805 1% |
| 47 | 1 | R20 | 100H | Res. SMD 0805 1% |
| 48 | 3 | R25, R49, R88 | 100H0 | Res. SMD 0805 1% |
| 49 | 3 | R27, R36, R73 | 4K70 | Res. SMD 0805 1% |
| 50 | 1 | R29 | 18K0 | Res. SMD 0805 1% |
| 51 | 1 | R31 | 11K5 | Res. SMD 0805 1% |
| 52 | 1 | R39 | 470H0 | Res. SMD 0805 1% |
| 53 | 1 | R47 | 10H0 | Res. SMD 0805 1% |
| 54 | 1 | R51 | 15K0 | Res. SMD 0805 1% |
| 55 | 1 | R53 | 49K9 | Res. SMD 0805 1% |
| 56 | 1 | R54 | 22K0 | Res. SMD 0805 1% |
| 57 | 1 | R55 | 220K0 | Res. SMD 0805 1% |
| 58 | 2 | R57, R68 | 82H0 | Res. SMD 0805 1% |
| 59 | 1 | R58 | 4K12 | Res. SMD 0805 1% |
| 60 | 1 | R59 | 100K0 | Res. SMD 0805 1% |
| 61 | 1 | R61 | 1K00 | Res. SMD 0805 1% |
| 62 | 2 | R62, R93 | 33K0 | Res. SMD 0805 1% |
| 63 | 1 | R63 | 8K20 | Res. SMD 0805 1% |
| 64 | 1 | R67 | 6K19 | Res. SMD 0805 1% |
| 65 | 1 | R75 | 2K20 | Res. SMD 0805 1% |
| 66 | 1 | R77 | 1M0 | Res. SMD 0805 1% |

| Item | Quantity | Reference | Part | Description |
|------|----------|------------------------------|-----------|-----------------------------|
| 67 | 1 | R81 | 680H | Res. SMD 0805 1% |
| 68 | 3 | R82, R83, R84 | 2K00 | Res. SMD 0805 1% |
| 69 | 1 | R89 | 220H0 | Res. SMD 0805 1% |
| 70 | 1 | R92 | 10K | Res. NTC SMD 0805 |
| 71 | 1 | SH1 | 0H005/3W | Shunt passo 15.2mm fori 2mm |
| 72 | 1 | SH2 | NC | Shunt passo 15.2mm fori 2mm |
| 73 | 2 | SH3, SH4 | NC | Shunt SMD 2512 |
| 74 | 6 | TP2, TP3, TP4, TP6, TP7, TP8 | NC | Foro dia. 1mm |
| 75 | 1 | TP5 | NC | Foro dia. 2mm |
| 76 | 1 | U1 | LM358SMD | Dual Op. SMD SO8 |
| 77 | 1 | U2 | LM324SMD | Quad Op. SMD SO14 |
| 78 | 3 | U3, U4, U6 | TL074SMD | Quad Op. SMD SO14 |
| 79 | 1 | U5 | TL071/SO | Single Op. SMD SO8 |
| 80 | 1 | U7 | LM50C_SMD | Temperature sensor |

SLPS0468R01V02



| | |
|--|----------------------------|
| DESCRIPTION : POWER SUPPLY PA RF 50W 50V | PART_CODE : SLPS0468R01V** |
| DESIGNER : FRANCESCHI A. | DATE: 19/04/2017 |
| | REVISION: 1.0 |
| | SCALE: 3:1 |
| | SIZE: A4 |
| | PAGINA: 1 DI 1 |

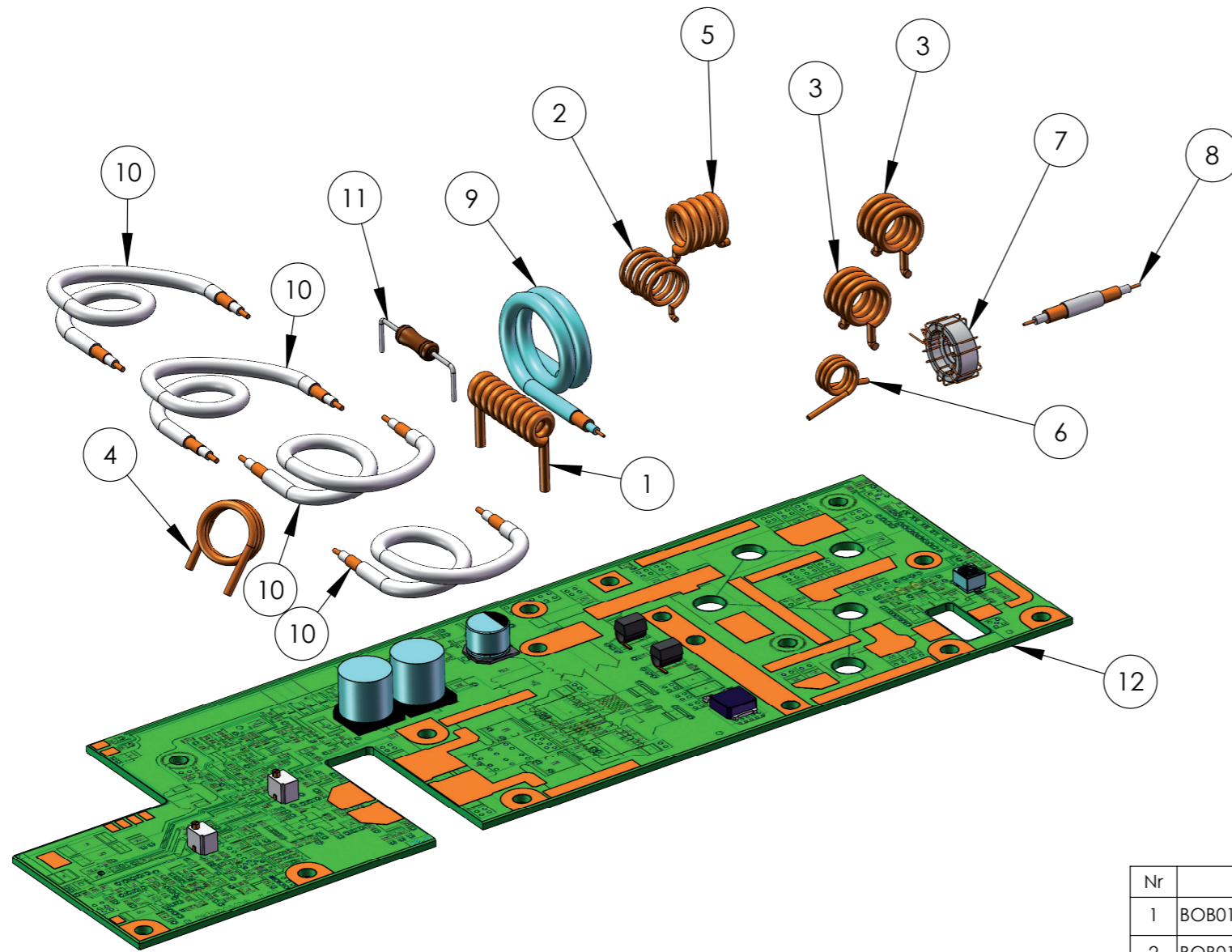


| | |
|---|------------------|
| Description: POWER SUPPLY PA RF 50V 1A5 | |
| Designer: Mauro Lucelli | Size: A4 |
| Part No.: SLPS0468R01V02 | Rev. 1.0 |
| Page: 1 of 1 | Date: 11/03/2019 |

SLPS0468R01V02

POWER SUPPLY PA RF 50V 1A5
 SLPS0468R01V02
 Revision: 1.0
 11/03/2019
 Mauro Ucelli

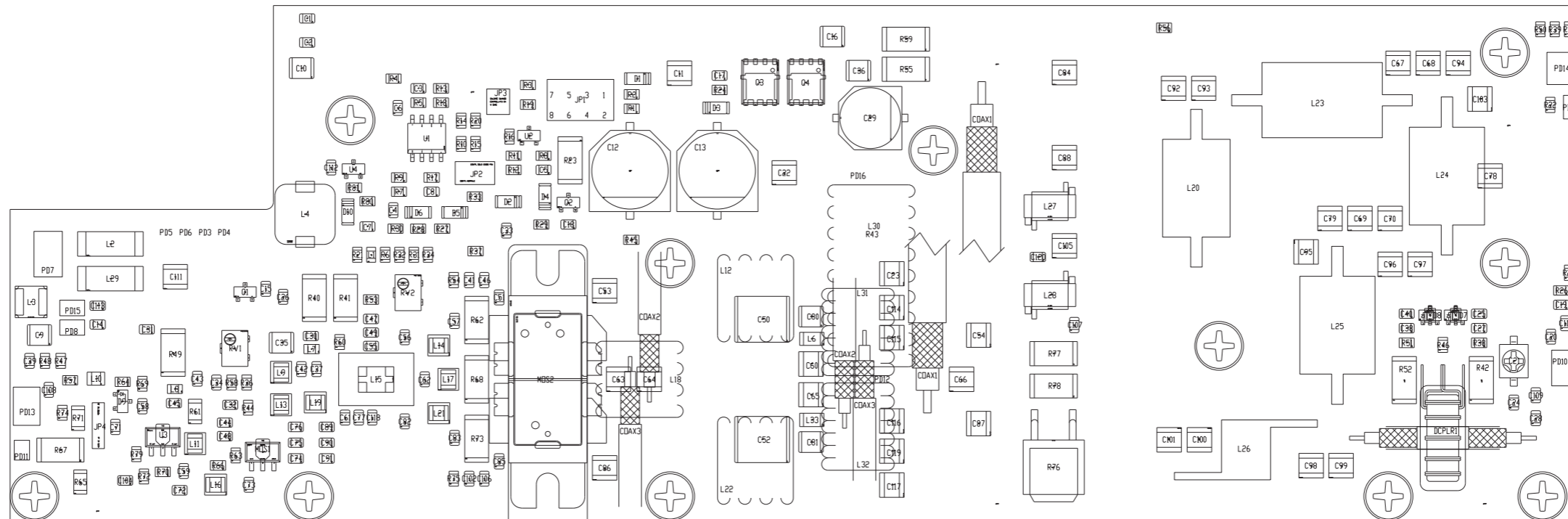
| Item | Quantity | Reference | Part | Description |
|------|----------|---------------------|--------------|----------------------------------|
| 1 | 1 | CS1 | CSPS0468R1 | Circuito stampato PA |
| 2 | 1 | C1 | 100n | Cond. SMD 1206 |
| 3 | 4 | C2,C3,C4,C121 | 2.2u 100V | Capacitor SMD 1210 MLCC X7R 100V |
| 4 | 2 | C5,C6 | 22u 16V | Capacitor SMD 1210 MLCC X7R 16V |
| 5 | 1 | C7 | 47p | Cond. SMD 0805 COG |
| 6 | 1 | C10 | 10n | SMD 0805 MLCC X7R |
| 7 | 1 | C12 | 3.3n | SMD 0805 MLCC X7R |
| 8 | 1 | C13 | 10p | Cond. SMD 0805 COG |
| 9 | 1 | D1 | MBRS360BT3G | SMB Size SCHOTTKY Diode |
| 10 | 4 | FID4,FID5,FID6,FID7 | FID | Fiducial CS |
| 11 | 2 | FIX1,FIX2 | FIX35 | |
| 12 | 1 | L1 | 47uH | PWR Ind Wurth E 7447714470 |
| 13 | 1 | L29 | 47uH | PWR Ind WE 74404042470 |
| 14 | 4 | PD8,PD9,PD10,PD11 | PAD | Pad for connection |
| 15 | 2 | R2,R89 | 100k | Res. SMD 0805 |
| 16 | 1 | R6 | 68k | Res. SMD 0805 |
| 17 | 1 | R9 | 270k | Res. SMD 0805 |
| 18 | 1 | R10 | 6.8k | Res. SMD 0805 |
| 19 | 1 | R90 | 10k | Res. SMD 0805 |
| 20 | 1 | U1 | TPS54160DGQR | Step-Down DC2DC Converter |



| Nr | Codice | Descrizione | QTY. |
|----|-----------------|--|------|
| 1 | BOB01010005A | 10 spire filo da 2mm smaltato su diametro 5mm | 1 |
| 2 | BOB01020165A | 5 Spire Filo R-Arg. D. 1mm avvolte su D. 6.5mm lunghezza 12mm | 1 |
| 3 | BOB01020184A | 4 Spire Filo R-Arg. D. 1.5mm avvolte su D. 6.5mm lunghezza 9mm | 2 |
| 4 | BOB01020244A | 2.5 Spire Filo R-Arg. D. 1.5mm avvolte su D. 9mm lunghezza 6.5mm | 1 |
| 5 | BOB01020245A | 5 Spire Filo R-Arg. D. 1.5mm avvolte su D. 6.5mm lunghezza 11mm | 1 |
| 6 | BOB01020246A | 3 Spire Filo R-Arg. D. 1mm avvolte su D. 5mm lunghezza 5.5mm | 1 |
| 7 | BOB03010001A | BOB. SU NUCLEO KITFTR1010SP | 1 |
| 8 | CCXS12N0224A | CAVO RG316/50 NON INTESTATO 26MM | 1 |
| 9 | CCXS18N0223A | CAVO RG142 50H NON-INT. 145MM | 1 |
| 10 | CCXS26N0225A | CAVO HF086-25-FEP NON INTEST. 120MM | 4 |
| 11 | RSM002J0022H | RES. STRATO METALLICO 2W. 5% 22H | 1 |
| 12 | SLRF0484R03V01S | SEM.SMD PA UNIT 300W FM | 1 |

| | | | | | |
|---|-----------------------|--|-------------------------|------------------------|--|
| GENERAL TOLERANCE UNI ISO 2768-f | PROFILE: MATERIAL: | DESCRIPTION: SEM.SCH. PA UNIT 300W FM | CODE: SLRF0484R03V01 | AUTHOR: ut02 | |
| | TREATMENT: | DATE: 30/05/2022 | PROJECT N°: 045 | TYPE: SCALE: 1:1 | |

SLRF0484R03V01



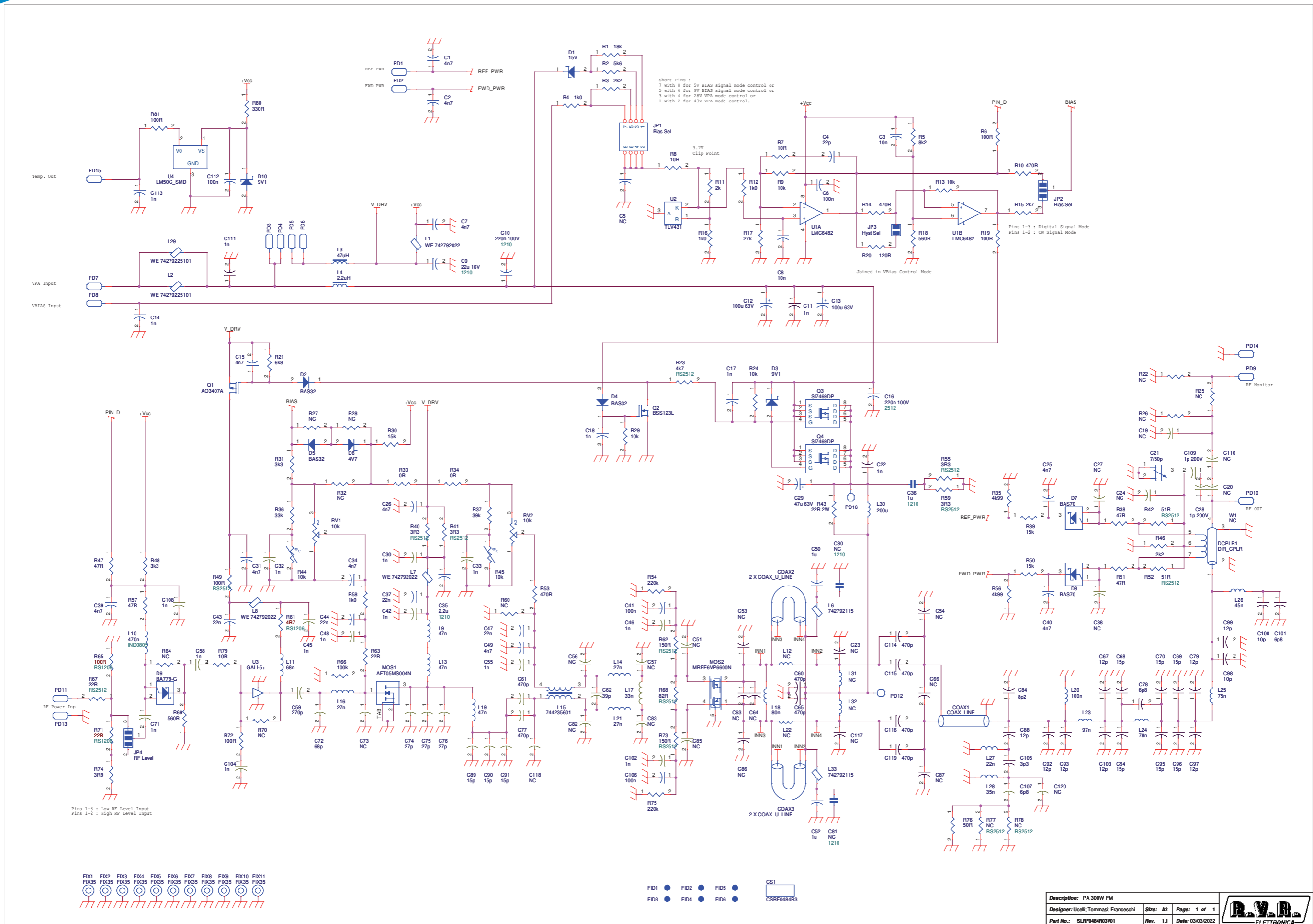
DESCRIPTION : RF PA 300W FM BAND

PART CODE : SLRF0484R03V01

DESIGNER : M. UCELLI

DATE: 13/10/2021 | REVISION: 1.0 | SCALE: 1:1 | SIZE: A4 | PAGINA: 1 DI 1

SLRF0484R03V01

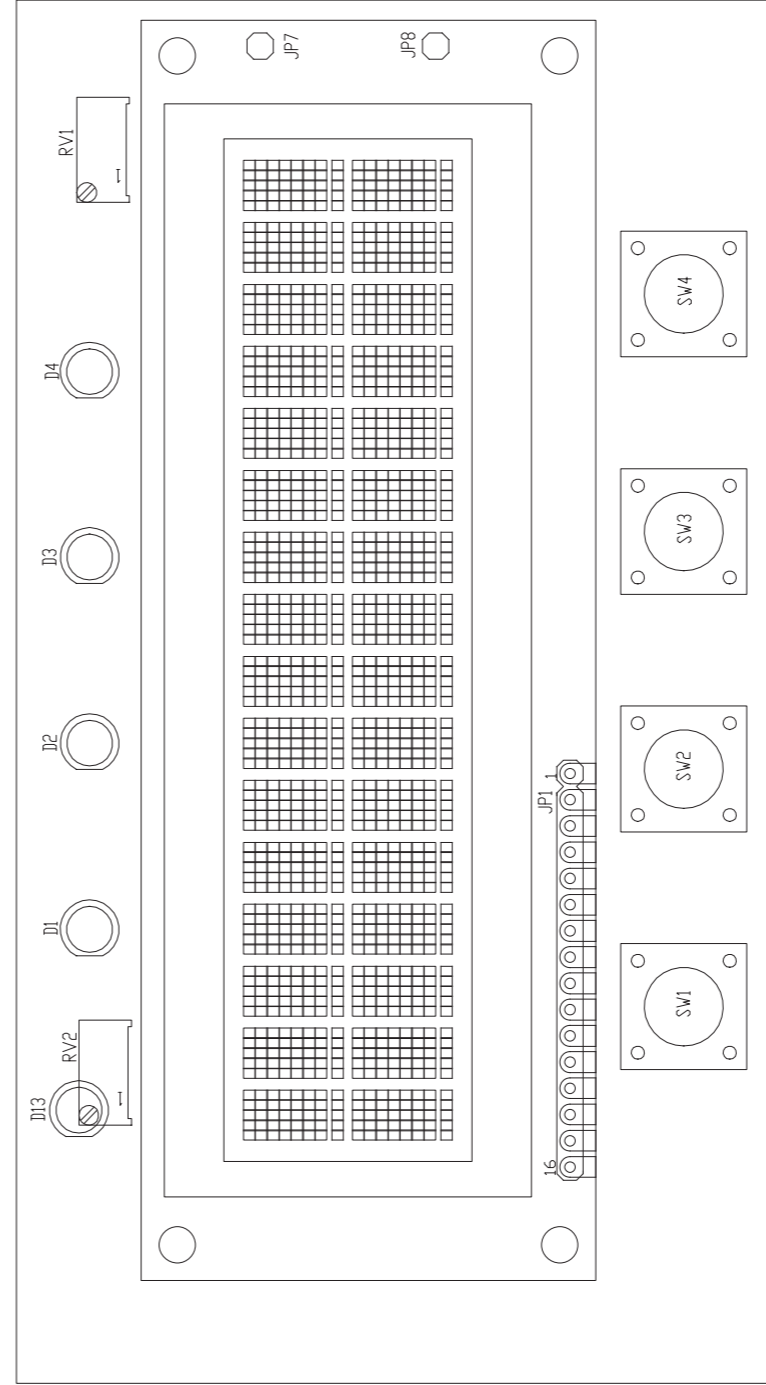
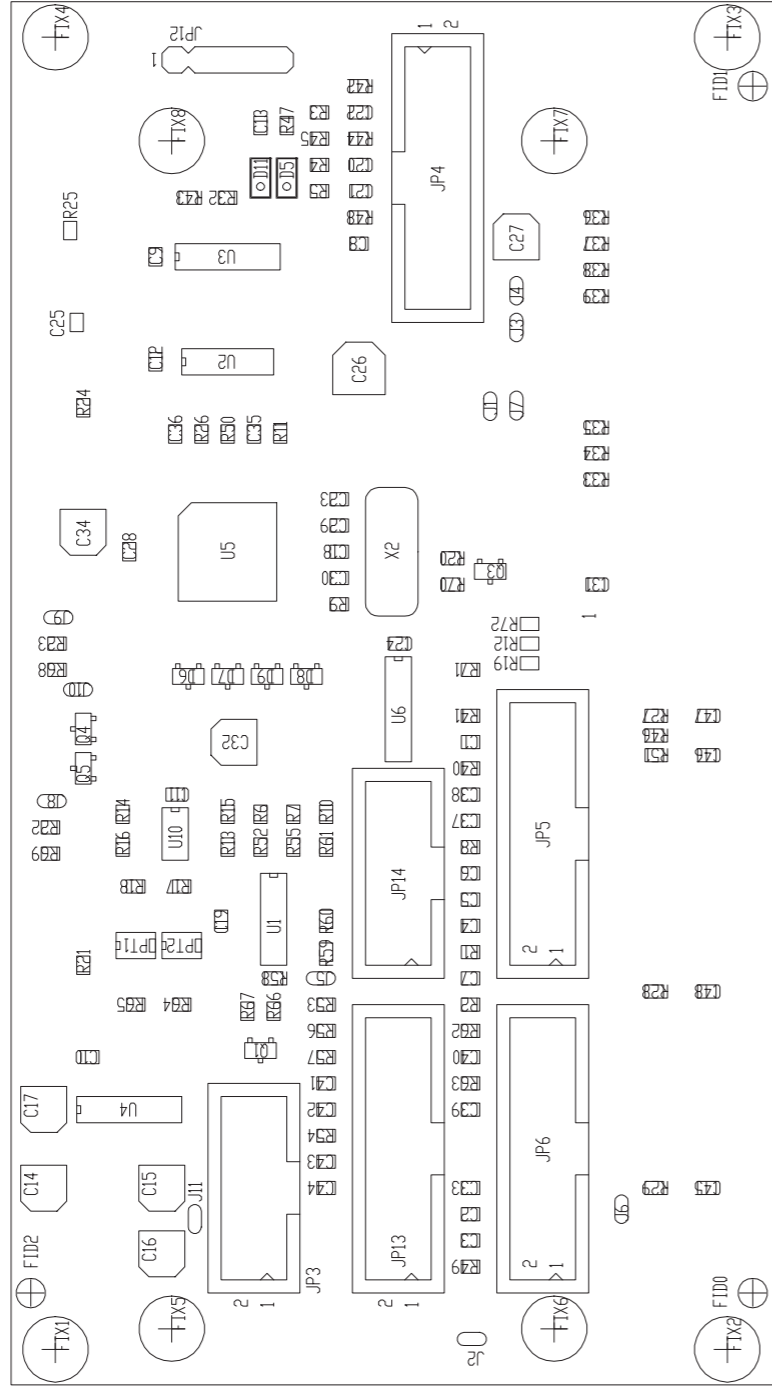


SLRF0484R03V01

PA 300W FM Revised: 03/03/2022
 SLRF0484R03V01 Revision: 1.1
 Mauro Ucelli

| Item | Quantity | Reference | Part | Description |
|------|----------|--|----------------|--|
| 1 | 1 | COAX1 | COAX_LINE | Coax cable |
| 2 | 2 | COAX2, COAX3 | COAX_U_LINE | U coax cable |
| 3 | 1 | C51 | CSRF0484R3 | Printed Circuit board |
| 4 | 11 | C1, C2, C7, C15, C25, C26, C31, C34, C39, C40, C49 | 4n7 | 0805 SMD capacitor |
| 5 | 2 | C3, C8 | 10n | 0805 SMD capacitor |
| 6 | 1 | C4 | 22p | 0805 COG SMD capacitor |
| 7 | 16 | C5, C19, C20, C24, C27, C38, C51, C56, C57, C73, C82, C83, C85, C110, C118, C120 | NC | 0805 COG SMD capacitor |
| 8 | 4 | C6, C41, C106, C112 | 100n | 0805 SMD capacitor |
| 9 | 1 | C9 | 22u 16V | Capacitor SMD 1210 MLCC X7R 16V |
| 10 | 2 | C10, C16 | 220n 100V | Capacitor SMD 1210 MLCC X7R 100V |
| 11 | 3 | C11, C22, C111 | 1n | 1212 HQ SMD capacitor |
| 12 | 2 | C12, C13 | 100u 63V | SMD electr. cap. 10mm |
| 13 | 17 | C14, C17, C18, C30, C32, C33, C42, C45, C46, C48, C55, C58, C71, C102, C104, C108, | 1n | 0805 COG SMD capacitor |
| 14 | 2 | C28, C109 | 1p 200V | 0805 COG SMD capacitor |
| 15 | 1 | C21 | 7/50p | Adj. Cap 7 / 50pF |
| 16 | 9 | C23, C53, C54, C63, C64, C66, C86, C87, C117 | NC | 1212 HQ SMD capacitor |
| 17 | 1 | C29 | 47u 63V | SMD electr. cap. 10mm |
| 18 | 1 | C35 | 2.2u | Capacitor SMD 1210 MLCC X7R 100V |
| 19 | 1 | C36 | 1u | Capacitor SMD 1210 MLCC X7R 100V |
| 20 | 4 | C37, C43, C44, C47 | 22n | 0805 SMD capacitor |
| 21 | 2 | C50, C52 | 1u | Cap. PolyE. SMD size 2824 100VDC |
| 22 | 1 | C59 | 270p | 0805 COG SMD capacitor |
| 23 | 6 | C60, C65, C114, C115, C116, C119 | 470p | 1212 HQ SMD capacitor |
| 24 | 2 | C61, C77 | 470p | 0805 COG SMD capacitor |
| 25 | 1 | C62 | 39p | 0805 COG SMD capacitor |
| 26 | 8 | C67, C79, C88, C92, C93, C97, C99, C103 | 12p | 1212 HQ SMD capacitor |
| 27 | 6 | C68, C69, C70, C94, C95, C96 | 15p | 1212 HQ SMD capacitor |
| 28 | 1 | C72 | 68p | 0805 COG SMD capacitor |
| 29 | 3 | C74, C75, C76 | 27p | 0805 COG SMD capacitor |
| 30 | 2 | C78, C101 | 6p8 | 1212 HQ SMD capacitor |
| 31 | 2 | C80, C81 | NC | Capacitor SMD 1210 MLCC X7R 100V |
| 32 | 1 | C84 | 8p2 | 1212 HQ SMD capacitor |
| 33 | 3 | C89, C90, C91 | 15p | 0805 COG SMD capacitor |
| 34 | 2 | C98, C100 | 10p | 1212 HQ SMD capacitor |
| 35 | 1 | C105 | 3p3 | 1212 HQ SMD capacitor |
| 36 | 1 | C107 | 6p8 | 0805 COG SMD capacitor |
| 37 | 1 | DCPLR1 | DIR_CPLR | Directional coupler |
| 38 | 1 | D1 | 15V | MINIMELF SMD Zener Diode |
| 39 | 3 | D2, D4, D5 | BAS32 | MINIMELF SMD Diode |
| 40 | 2 | D3, D10 | 9V1 | MINIMELF SMD Zener Diode |
| 41 | 1 | D6 | 4V7 | MINIMELF SMD Zener Diode |
| 42 | 2 | D7, D8 | BAS70 | Hot Carrier Schottky Diode |
| 43 | 1 | D9 | BA779-G | SOT23 Pin Diode |
| 44 | 6 | FID1, FID2, FID3, FID4, FID5, FID6 | FID | PCB fiducial |
| 45 | 11 | FIX1, FIX2, FIX3, FIX4, FIX5, FIX6, FIX7, FIX8, FIX9, FIX10, FIX11 | FIX35 | |
| 46 | 1 | JP1 | Bias Sel | Male strip 4+4 pin |
| 47 | 1 | JP2 | Bias Sel | * |
| 48 | 1 | JP3 | Hyst Sel | * |
| 49 | 1 | JP4 | RF Level | * |
| 50 | 3 | L1, L7, L8 | WE 742792022 | Ferrite Bead 0805 |
| 51 | 2 | L2, L29 | WE 74279225101 | Ferrite Bead 3412 |
| 52 | 1 | L3 | 47uH | PWR Ind WE 74404042470 |
| 53 | 1 | L4 | 2.2uH | PWR Ind WE 7443340220 |
| 54 | 2 | L6, L33 | 742792115 | Ferrite Bead 1206 |
| 55 | 3 | L9, L13, L19 | 47n | SMD inductor HQ 2520 (1008) |
| 56 | 1 | L10 | 470n | SMD inductor HQ 2012 (0805) |
| 57 | 1 | L11 | 68n | SMD inductor HQ 2520 (1008) |
| 58 | 2 | L12, L22 | NC | ? Spire Filo R-Arg. D. 7mm avvolte su D. 7mm lunghezza 7mm |
| 59 | 3 | L14, L16, L21 | 27n | SMD inductor HQ 2520 (1008) |
| 60 | 1 | L15 | 744235601 | WE-CNSW SMD Common Mode Line Filter |
| 61 | 1 | L17 | 33n | SMD inductor HQ 2012 (0805) |
| 62 | 1 | L18 | 80n | 2.5 Spire Filo R-Arg. D. 1.5mm avvolte su D. 9mm lunghezza 6.5mm |
| 63 | 1 | L20 | 100n | 5 Spire Filo R-Arg. D. 1mm avvolte su D. 6.5mm lunghezza 12mm |
| 64 | 1 | L23 | 97n | 5 Spire Filo R-Arg. D. 1.5mm avvolte su D. 6.5mm lunghezza 11mm |
| 65 | 1 | L24 | 78n | 4 Spire Filo R-Arg. D. 1.5mm avvolte su D. 6.5mm lunghezza 9mm |
| 66 | 1 | L25 | 75n | 4 Spire Filo R-Arg. D. 1.5mm avvolte su D. 6.5mm lunghezza 9.5mm |
| 67 | 1 | L26 | 45n | 3 Spire Filo R-Arg. D. 1mm avvolte su D. 5mm lunghezza 5.5mm |
| 68 | 1 | L27 | 22n | Air Coil Ind WE 744914122 |
| 69 | 1 | L28 | 35n | Air Coil Ind WE 744912133 |
| 70 | 1 | L30 | 200u | 10spire filo R. Smalt. 2mm Avvolte su 6mm |
| 71 | 2 | L31, L32 | NC | ? Spire Filo R.Smalt. D. 7mm avvolte su D. 7mm lunghezza 7mm |
| 72 | 1 | MOS1 | AFT05MS004N | RF Power LDMOS Transistor SOT-89 |
| 73 | 1 | MOS2 | MRF6VP6600N | RF Power LDMOS Transistors Push-Pull |
| 74 | 14 | PD1, PD2, PD3, PD4, PD5, PD6, PD7, PD8, PD9, PD10, PD11, PD13, PD14, PD15 | PAD | SMD pad |
| 75 | 2 | PD12, PD16 | PAD | Pad for connection |
| 76 | 1 | Q1 | AO3407A | SOT23 PMOS |

| Item | Quantity | Reference | Part | Description |
|------|----------|---|-----------|-----------------------------------|
| 77 | 1 | Q2 | BSS123L | SOT23 NMOS |
| 78 | 2 | Q3, Q4 | SI7469DP | P-Channel 80-V (D-S) MOSFET |
| 79 | 2 | RV1, RV2 | 10k | Trimmer SMD V 3314 |
| 80 | 1 | R1 | 18k | 0805 SMD res. |
| 81 | 1 | R2 | 5k6 | 0805 SMD res. |
| 82 | 2 | R3, R46 | 2k2 | 0805 SMD res. |
| 83 | 4 | R4, R12, R16, R58 | 1k0 | 0805 SMD res. |
| 84 | 1 | R5 | 8k2 | 0805 SMD res. |
| 85 | 4 | R6, R19, R72, R81 | 100R | 0805 SMD res. |
| 86 | 3 | R7, R8, R79 | 10R | 0805 SMD res. |
| 87 | 4 | R9, R13, R24, R29 | 10k | 0805 SMD res. |
| 88 | 3 | R10, R14, R53 | 470R | 0805 SMD res. |
| 89 | 1 | R11 | 2k | 0805 SMD res. |
| 90 | 1 | R15 | 2k7 | 0805 SMD res. |
| 91 | 1 | R17 | 27k | 0805 SMD res. |
| 92 | 2 | R18, R69 | 560R | 0805 SMD res. |
| 93 | 1 | R20 | 120R | 0805 SMD res. |
| 94 | 1 | R21 | 6k8 | 0805 SMD res. |
| 95 | 1 | R23 | 4k7 | 2512 1% SMD res. |
| 96 | 9 | R22, R25, R26, R27, R28, R32, R60, R64, R70 | NC | 0805 SMD res. |
| 97 | 3 | R30, R39, R50 | 15k | 0805 SMD res. |
| 98 | 2 | R31, R48 | 3k3 | 0805 SMD res. |
| 99 | 2 | R33, R34 | 0R | 0805 SMD res. |
| 100 | 2 | R35, R56 | 4k99 | 0805 SMD res. |
| 101 | 1 | R36 | 33k | 0805 SMD res. |
| 102 | 1 | R37 | 39k | 0805 SMD res. |
| 103 | 4 | R38, R47, R51, R57 | 47R | 0805 SMD res. |
| 104 | 4 | R40, R41, R55, R59 | 3R3 | 2512 1% SMD res. |
| 105 | 2 | R42, R52 | 51R | 2512 1% SMD res. |
| 106 | 1 | R43 | 22R 2W | 2W resistor |
| 107 | 2 | R44, R45 | 10k | NTC resistor SMD 0805 |
| 108 | 1 | R49 | 100R | 2512 1% SMD res. |
| 109 | 2 | R54, R75 | 220k | 0805 SMD res. |
| 110 | 1 | R61 | 4R7 | 1206 SMD res. |
| 111 | 2 | R62, R73 | 150R | 2512 1% SMD res. |
| 112 | 1 | R63 | 22R | 0805 SMD res. |
| 113 | 1 | R65 | 100R | 1206 SMD res. |
| 114 | 1 | R66 | 100k | 0805 SMD res. |
| 115 | 1 | R67 | 22R | 2512 1% SMD res. |
| 116 | 1 | R68 | 82R | 2512 1% SMD res. |
| 117 | 1 | R71 | 22R | 1206 SMD res. |
| 118 | 1 | R74 | 39R | 0805 SMD res. |
| 119 | 1 | R76 | 50R | DPAK resistor |
| 120 | 2 | R77, R78 | NC | 2512 1% SMD res. |
| 121 | 1 | R80 | 330R | 0805 SMD res. |
| 122 | 1 | U1 | LMC6482 | Rail to Rail Dual Op. SMD SO8 |
| 123 | 1 | U2 | TLV431 | Low Volt. Adj. Shunt Reg 1.24Vref |
| 124 | 1 | U3 | GALI-5+ | RF MMIC |
| 125 | 1 | U4 | LM50C_SMD | Temperature sensor |
| 126 | 1 | W1 | NC | Filo D. 0.5mm lungo 5mm |



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

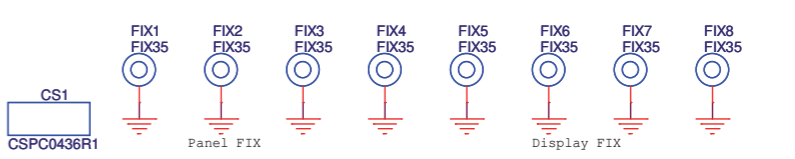
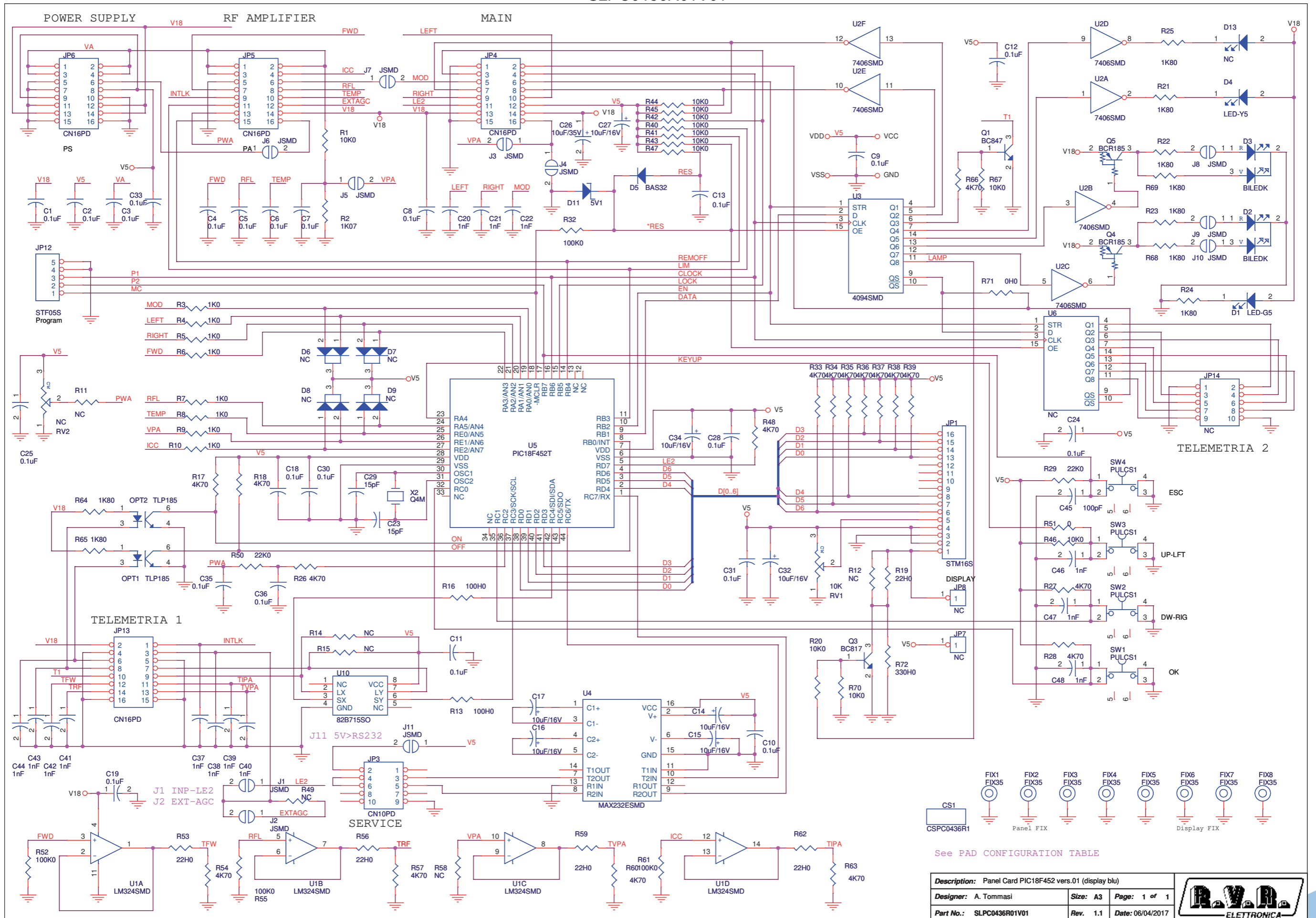
DESIGNER : A. TOMMASI

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

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

DOCUMENT CODE : SLPC0436R01Vxx

SLPC0436R01V01



See PAD CONFIGURATION TABLE

| | | |
|--|------------------|-------------------------|
| Description: Panel Card PIC18F452 vers.01 (display blu) | | |
| Designer: A. Tommasi | Size: A3 | Page: 1 of 1 |
| Part No.: SLPC0436R01V01 | Rev.: 1.1 | Date: 06/04/2017 |

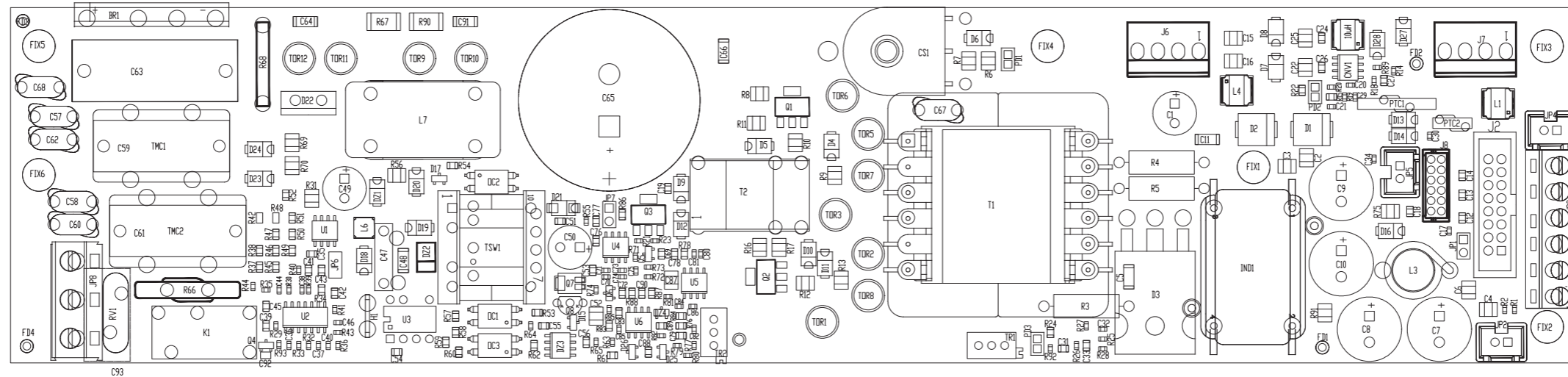



SLPC0436R01V01

Panel Card PIC18F452 vers.01 (display blu)
 SLPC0436R01V01 Revision: 1.1
 06/04/2017
 A. Tommasi

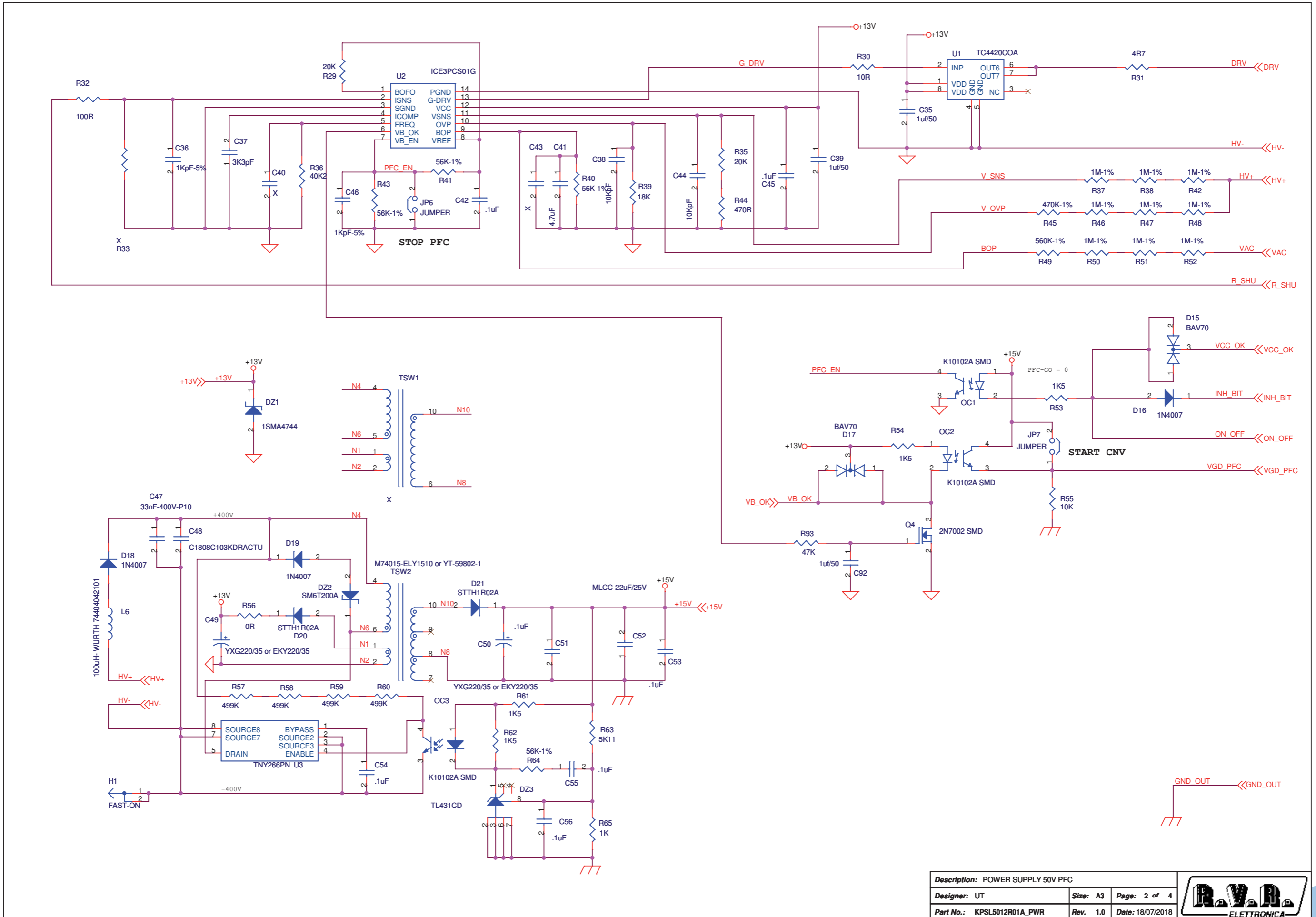
| Item | Quantity | Reference | Part | Description |
|------|----------|--|------------|--------------------------------|
| 1 | 1 | CS1 | CSPC0436R1 | Circuito stampato |
| 2 | 23 | C1,C2,C3,C4,C5,C6,C7,C8,C9,C10,C11,C12,C13,C18,C19,C24,C25,C28,C30,C31,C33,C35,C36 | 0.1uF | Cond. SMD 0805 |
| 3 | 7 | 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 femmina 16 pin |
| 17 | 1 | JP3 | 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 o 5 pin |
| 21 | 1 | JP14 | NC | Connettore 10 poli Flat cs |
| 22 | 11 | J1,J2,J3,J4,J5,J6,J7,J8,J9,J10,J11 | JSMD | Pad SMD a saldare |
| 23 | 2 | OPT1,OPT2 | TLP185 | Optoisolatore SMD SO6 |
| 24 | 1 | Q1 | BC847 | Trans. NPN SOT23 |
| 25 | 1 | Q3 | BC817 | Trans. NPN SOT23 |
| 26 | 2 | Q4,Q5 | BCR185 | Trans./Res. PNP SOT23 |
| 27 | 1 | RV1 | 10K | Trimmer Rg O 3386X |
| 28 | 1 | RV2 | NC | Trimmer Rg V 3296W |
| 29 | 12 | R1,R20,R40,R41,R42,R43,R44,R45,R46,R47,R67,R70 | 10K0 | Res. SMD 0805 1% |
| 30 | 1 | R2 | 1K07 | Res. SMD 0805 1% |
| 31 | 8 | R3,R4,R5,R6,R7,R8,R9,R10 | 1K0 | Res. SMD 0805 1% |
| 32 | 6 | R11,R12,R14,R15,R49,R58 | NC | Res. SMD 0805 1% |
| 33 | 2 | R13,R16 | 100H0 | Res. SMD 0805 1% |
| 34 | 18 | R17,R18,R26,R27,R28,R33,R34,R35,R36,R37,R38,R39,R48,R54,R57,R60,R63,R66 | 4K70 | Res. SMD 0805 1% |
| 35 | 5 | R19,R53,R56,R59,R62 | 22H0 | Res. SMD 0805 1% |
| 36 | 9 | R21,R22,R23,R24,R25,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 | 2 | R51,R71 | 0H0 | Res. SMD 0805 1% |
| 40 | 1 | R72 | 330H0 | 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 | 1 | U3 | 4094SMD | Shift Reg. SMD SO16 |
| 45 | 1 | U4 | MAX232ESMD | RS232 Driver SMD SO16 |
| 46 | 1 | U5 | PIC18F452T | TQFP44 SMD Microprocessor |
| 47 | 1 | U6 | NC | Shift Reg. SMD SO16 |
| 48 | 1 | U10 | 82B715SO | IIC Bus driver SMD SO8 |
| 49 | 1 | X2 | Q4M | Quarzo SMD HC49SMD |

KPSL5012R01A



| | | | | | |
|---|--------------------------|----------------------------------|----------------|-------------|-----------|
|  | PRODUCT NAME : TEX300LCD | PART NAME : POWER SUPPLY 50V PFC | | | |
| | DESIGNER : UT | DATE : 18/07/18 | REVISION : 1.0 | SCALE : 1:1 | SIZE : A3 |
| ARCHIVING : *RVUT* SERVER, *RILASCIATI* FOLDER | PROJECT CODE : < | DOCUMENT CODE : KPSL5012R01A | | | |

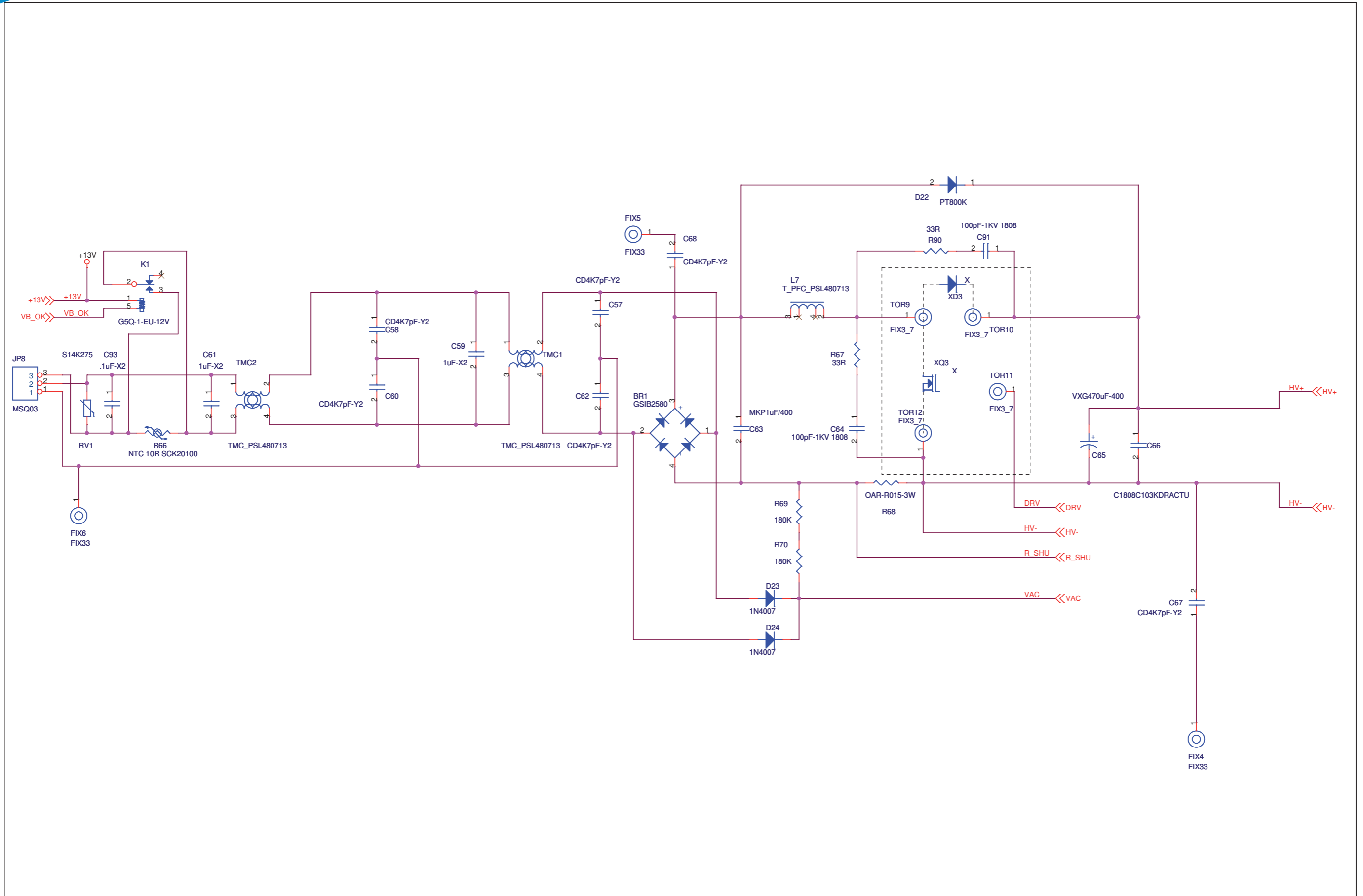
KPSL5012R01A



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| Description: POWER SUPPLY 50V PFC | | |
| Designer: UT | Size: A3 | Page: 2 of 4 |
| Part No.: KPSL5012R01A_PWR | Rev. 1.0 | Date: 18/07/2018 |

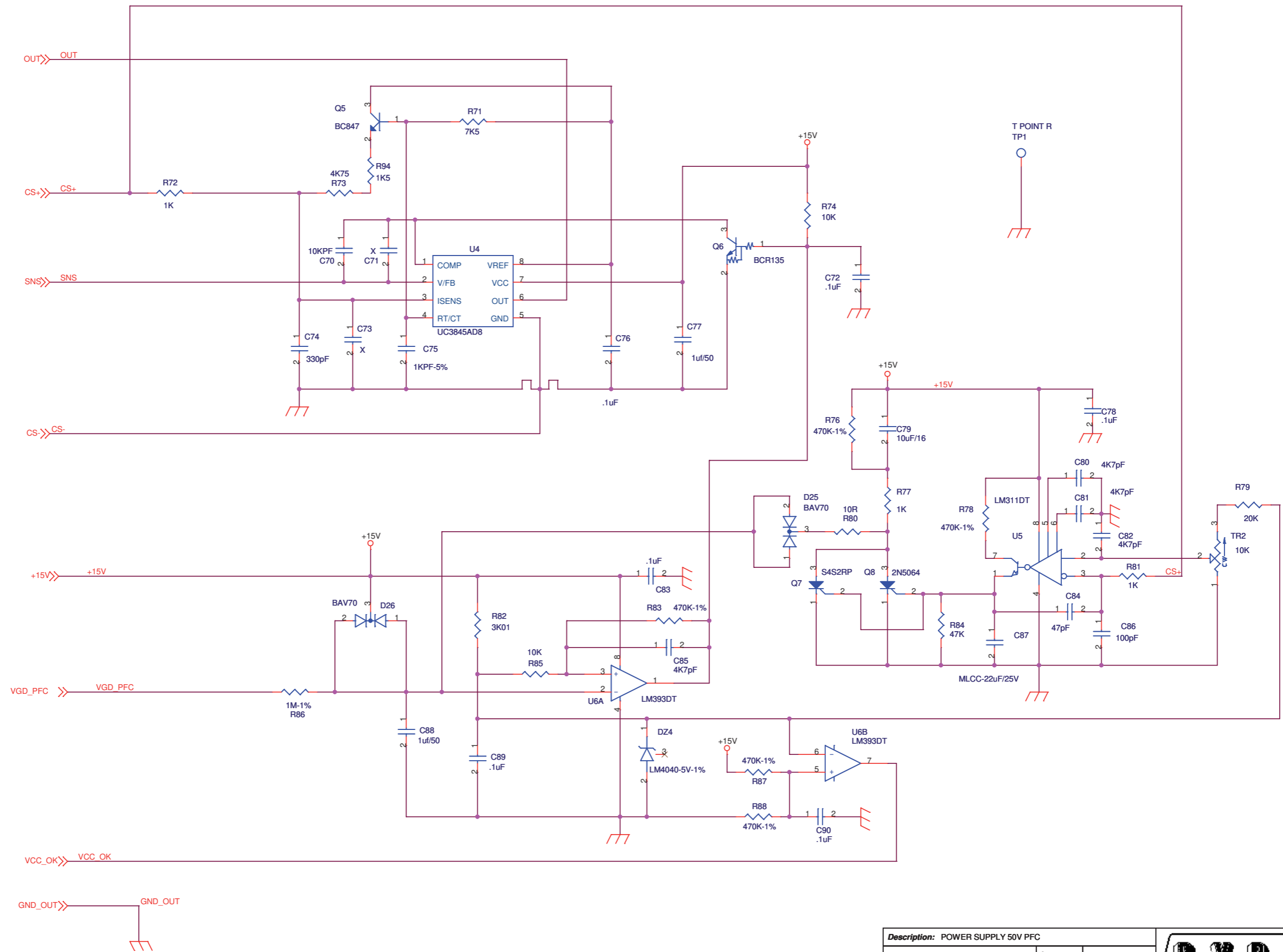


KPSL5012R01A



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| Description: POWER SUPPLY 50V PFC | | | |
| Designer: UT | Size: A3 | Page: 3 of 4 | |
| Part No.: KPSL5012R01A_PWR | Rev. 1.0 | Date: 18/07/2018 | |

KPSL5012R01A



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|-----------------------------------|----------|------------------|--|
| Description: POWER SUPPLY 50V PFC | | | |
| Designer: UT | Size: A3 | Page: 4 of 4 | |
| Part No.: KPSL5012R01A_PWR | Rev. 1.0 | Date: 18/07/2018 | |

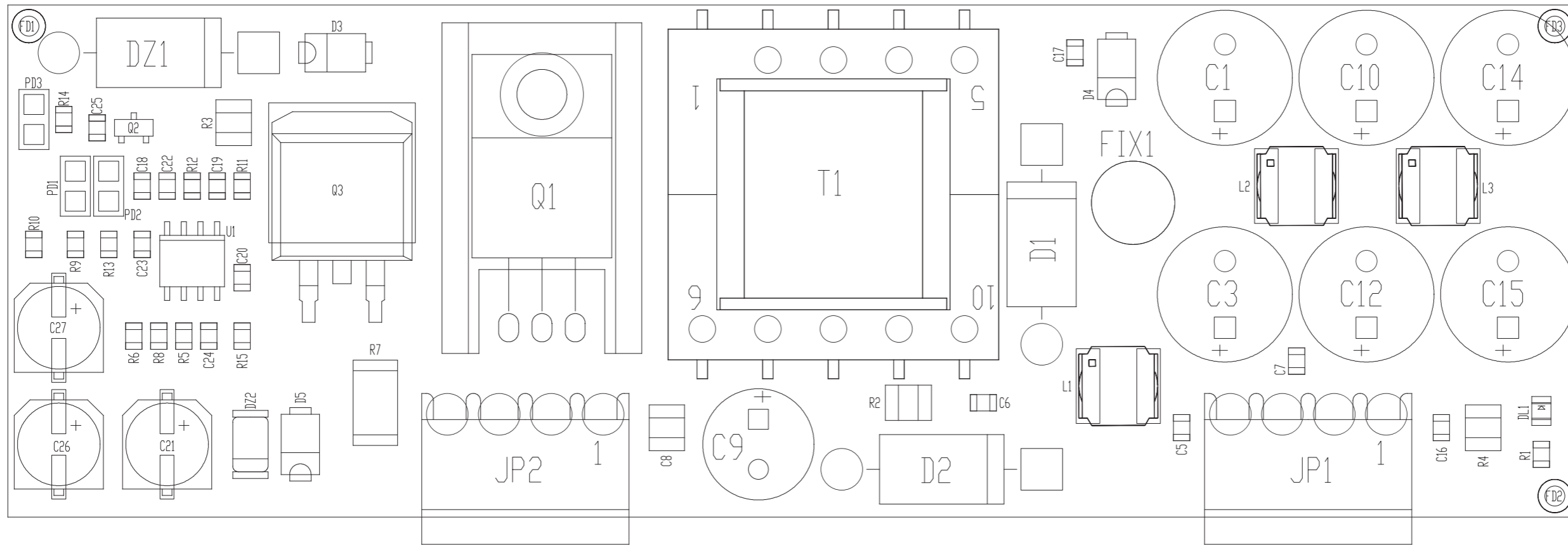
KPSL5012R01A

POWER SUPPLY 50V PFC Revised: 18/07/2018
 KPSL5012R01A_PWR Revision: 1.0
 UT

| Item | Quantity | Reference | Part |
|------|----------|---|-----------------------------|
| 1 | 1 | BR1 | GSIB2580 |
| 2 | 1 | CNV1 | NCP3170ADR2G |
| 3 | 1 | CS1 | PE-51718-M28908 |
| 4 | 3 | C1, C49, C50 | YXG220/35 or EKY220/35 |
| 5 | 6 | C2, C3, C4, C6, C15, C16 | 2.2uF-100V-C1210C225K1RACTU |
| 6 | 2 | C5, C11 | 1KpF |
| 7 | 4 | C7, C8, C9, C10 | 470uF/63 |
| 8 | 21 | C12, C13, C14, C18, C24, C26, C27, C31, C42, C45, C51, C53, C54, C55, C56, C72, C76, C78, C83, C89, C90 | .1uF |
| 9 | 6 | C17, C30, C34, C36, C46, C75 | 1KPF-5% |
| 10 | 6 | C19, C35, C39, C77, C88, C92 | 1uF/50 |
| 11 | 5 | C20, R33, C40, C71, C73 | X |
| 12 | 2 | C21, C86 | 100pF |
| 13 | 4 | C22, C25, C52, C87 | MLCC-22uF/25V |
| 14 | 5 | C29, C80, C81, C82, C85 | 4K7pF |
| 15 | 1 | C32 | XX |
| 16 | 2 | C33, C43 | X |
| 17 | 1 | C37 | 3K3pF |
| 18 | 3 | C38, C44, C70 | 10KPF |
| 19 | 1 | C41 | 4.7uF |
| 20 | 1 | C47 | 33nF-400V-P10 |
| 21 | 2 | C48, C66 | C1808C103KDRACTU |
| 22 | 6 | C57, C58, C60, C62, C67, C68 | CD4K7pF-Y2 |
| 23 | 2 | C59, C61 | 1uF-X2 |
| 24 | 1 | C63 | MKP1uF/400 |
| 25 | 2 | C64, C91 | 100pF-1KV 1808 |
| 26 | 1 | C65 | VXG470uF-400 |
| 27 | 1 | C74 | 330pF |
| 28 | 1 | C79 | 10uF/16 |
| 29 | 1 | C84 | 47pF |
| 30 | 1 | C93 | .1uF-X2 |
| 31 | 2 | DZ1, D9 | 1SMA4744 |
| 32 | 1 | DZ2 | SM6T200A |
| 33 | 1 | DZ3 | TL431CD |
| 34 | 1 | DZ4 | LM4040-5V-1% |
| 35 | 2 | D1, D2 | STTH3R02S |
| 36 | 1 | D3 | VS-HFA50PA60CPBF |
| 37 | 7 | D4, D5, D10, D11, D12, D13, D28 | B140-E3 |
| 38 | 3 | D6, D20, D21 | STTH1R02A |
| 39 | 7 | D7, D14, D16, D18, D19, D23, D24 | 1N4007 |
| 40 | 2 | D8, D27 | S3J |
| 41 | 4 | D15, D17, D25, D26 | BAV70 |
| 42 | 1 | D22 | PT800K |
| 43 | 1 | D29 | 1N4007 |
| 44 | 4 | FD1, FD2, FD3, FD4 | FIDUCIAL |
| 45 | 6 | FIX1, FIX2, FIX3, FIX4, FIX5, FIX6 | FIX33 |
| 46 | 1 | H1 | FAST-ON |
| 47 | 1 | IND1 | T_PSL480713 |
| 48 | 3 | JP1, JP6, JP7 | JUMPER |
| 49 | 3 | JP2, JP4, JP5 | 2.5MSF2 |
| 50 | 1 | JP3 | MSQ6 |
| 51 | 1 | JP8 | MSQ03 |
| 52 | 1 | J2 | CON16AP |
| 53 | 1 | J6 | MOLEX 4 |
| 54 | 1 | J7 | MOLEX-4 |
| 55 | 1 | J8 | DF11-12DP-2DSA |
| 56 | 1 | K1 | G5Q-1-EU-12V |
| 57 | 3 | L1, L4, L5 | 10uH 744 040 641 00 |
| 58 | 1 | L3 | BFV0710 |

| Item | Quantity | Reference | Part |
|------|----------|---|------------------------------|
| 59 | 1 | L6 | 100uH- WURTH 74404042101 |
| 60 | 1 | L7 | T_PFC_PSL480713 |
| 61 | 3 | OC1, OC2, OC3 | K10102A SMD |
| 62 | 1 | PD1 | LUNENO |
| 63 | 1 | PD2 | +6.5V |
| 64 | 1 | PD3 | PSL300 |
| 65 | 2 | PD4, PD5 | PAD |
| 66 | 1 | PTC2 | RXE040 |
| 67 | 2 | Q1, Q2 | FZT792A |
| 68 | 1 | Q3 | IRLL110BF |
| 69 | 1 | Q4 | 2N7002 SMD |
| 70 | 1 | Q5 | BC847 |
| 71 | 1 | Q6 | BCR135 |
| 72 | 1 | Q7 | S4S2RP |
| 73 | 1 | Q8 | 2N5064 |
| 74 | 1 | RV1 | S14K275 |
| 75 | 8 | R1, R2, R19, R23, R26, R55, R74, R85 | 10K |
| 76 | 3 | R3, R4, R5 | 100R-2W |
| 77 | 4 | R6, R9, R13, R31 | 4R7 |
| 78 | 1 | R7 | 15R |
| 79 | 2 | R8, R12 | 47R |
| 80 | 2 | R10, R16 | 10R |
| 81 | 2 | R11, R17 | 330R |
| 82 | 2 | R14, R39 | 18K |
| 83 | 2 | R15, R24 | 24K9 |
| 84 | 3 | R18, R27, R82 | 3K01 |
| 85 | 3 | R20, R25, R73 | 4K75 |
| 86 | 3 | R21, R30, R80 | 10R |
| 87 | 1 | R22 | 13K7 |
| 88 | 1 | R28 | 9K53 |
| 89 | 4 | R29, R35, R79, R92 | 20K |
| 90 | 1 | R32 | 100R |
| 91 | 1 | R36 | 40K2 |
| 92 | 10 | R37, R38, R42, R46, R47, R48, R50, R51, R52, R86 | 1M-1% |
| 93 | 5 | R40, R41, R43, R64, R89 | 56K-1% |
| 94 | 1 | R44 | 470R |
| 95 | 6 | R45, R76, R78, R83, R87, R88 | 470K-1% |
| 96 | 1 | R49 | 560K-1% |
| 97 | 5 | R53, R54, R61, R62, R94 | 1K5 |
| 98 | 1 | R56 | 0R |
| 99 | 4 | R57, R58, R59, R60 | 499K |
| 100 | 1 | R63 | 5K11 |
| 101 | 4 | R65, R72, R77, R81 | 1K |
| 102 | 1 | R66 | NTC 10R SCK20100 |
| 103 | 2 | R67, R90 | 33R |
| 104 | 1 | R68 | QAR-R015-3W |
| 105 | 2 | R69, R70 | 180K |
| 106 | 1 | R71 | 7K5 |
| 107 | 2 | R75, R91 | 2R2 |
| 108 | 2 | R84, R93 | 47K |
| 109 | 2 | TMC1, TMC2 | TMC_PSL480713 |
| 110 | 11 | TOR1, TOR2, TOR3, TOR5, TOR6, TOR7, TOR8, TOR9, TOR10, TOR11, TOR12 | FIX3_7 |
| 111 | 1 | TP1 | T POINT R |
| 112 | 2 | TR1, TR2 | 10K |
| 113 | 1 | TSW1 | X |
| 114 | 1 | TSW2 | M74015-ELY1510 or YT-59802-1 |
| 115 | 1 | T1 | TSWTCH53 |
| 116 | 1 | T2 | T8-GDRV |
| 117 | 1 | U1 | TC4420COA |
| 118 | 1 | U2 | ICE3PCS01G |
| 119 | 1 | U3 | TNY266PN |
| 120 | 1 | U4 | UC3845AD8 |
| 121 | 1 | U5 | LM311DT |
| 122 | 1 | U6 | LM393DT |
| 123 | 6 | XQ1, XD1, XQ2, XD2, XQ3, XD3 | X |

KPSL5012R01A



PRODUCT NAME : TEX300LCD

DESIGNER : UT

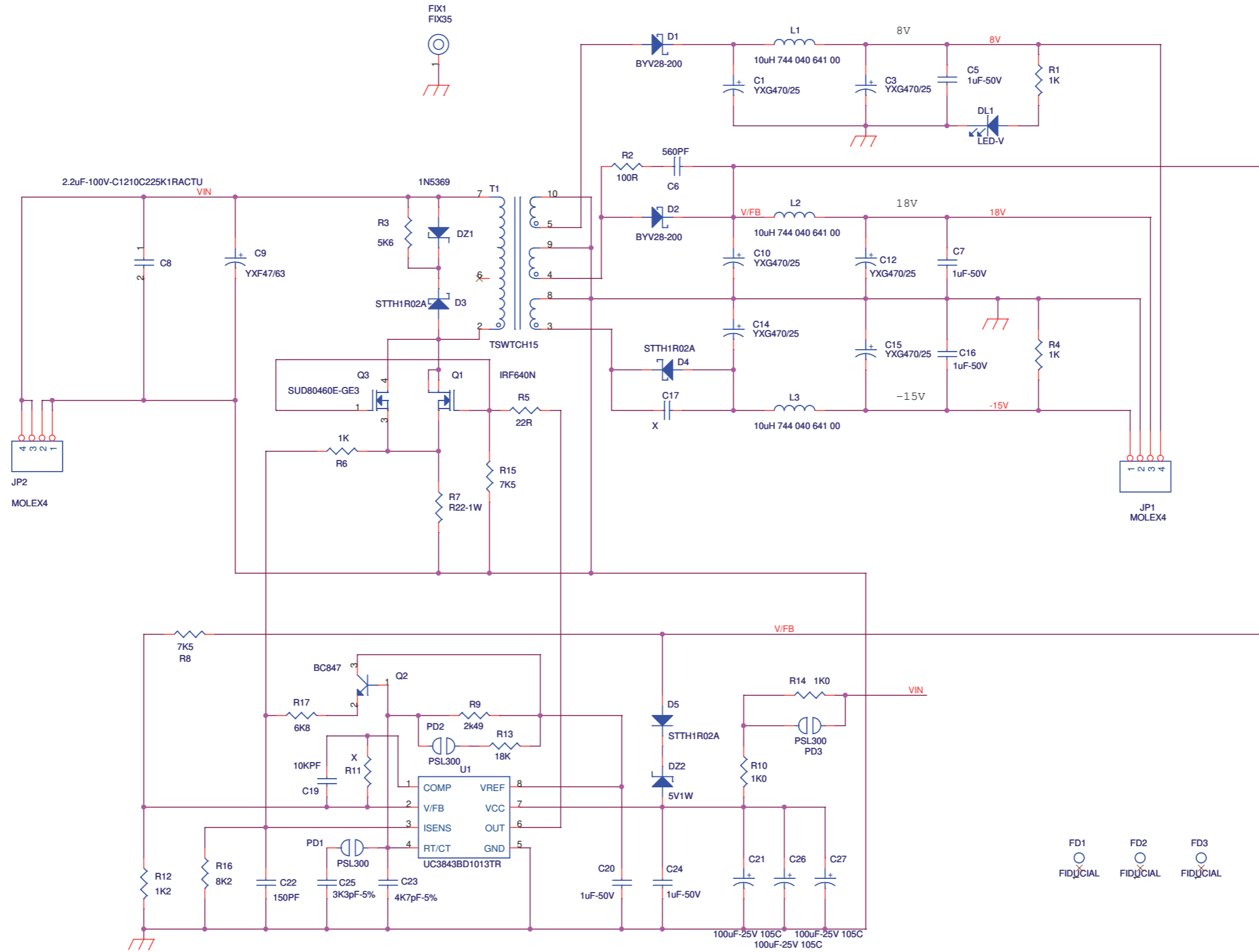
ARCHIVING : "RVUT" SERVER, "RILASCIATI" FOLDER

PART NAME : POWER SUPPLY 50V PFC (AUX SECTION)

DATE : 18/07/18 REVISION : 1.0 SCALE : 2:1 SIZE : A4 PAGE : 1 DI 1

PROJECT CODE : <> DOCUMENT CODE : KPSL5012R01A_AUS

KPSL5012R01A



| | | |
|--|------------------|-------------------------|
| Description: POWER SUPPLY 50V PFC (AUX SECTION) | | |
| Designer: UT | Size: A3 | Page: 1 of 1 |
| Part No.: KPSL5012R01A_AUS | Rev.: 1.0 | Date: 18/07/2018 |



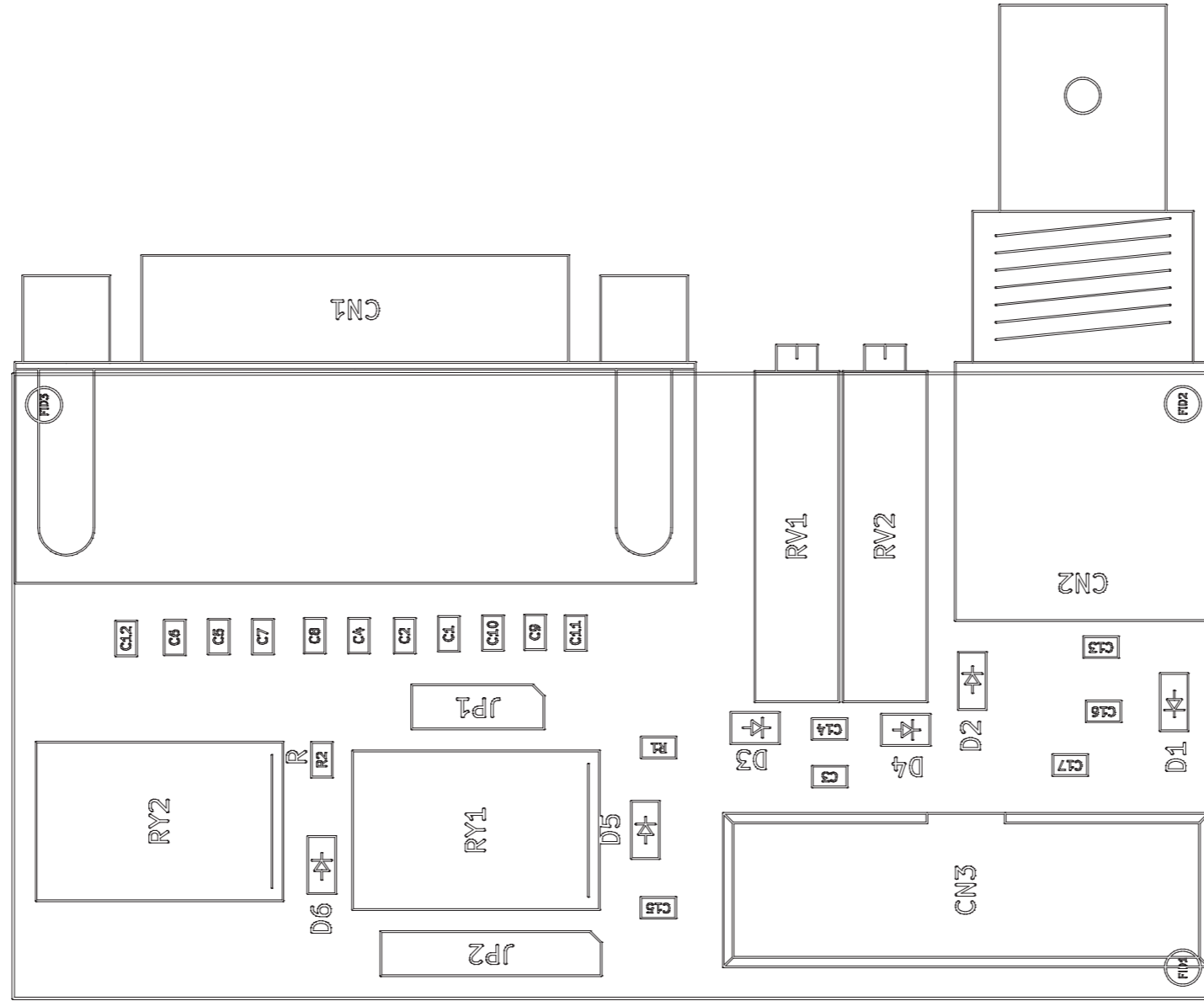
KPSL5012R01A

POWER SUPPLY 50V PFC (AUX SECTION) Revised: 18/07/2018

KPSL5012R01A_AUS Revision: 1.0

UT

| Item | Quantity | Reference | Part |
|------|----------|----------------------------|-----------------------------|
| 1 | 6 | C1, C3, C10, C12, C14, C15 | YXG470/25 |
| 2 | 5 | C5, C7, C16, C20, C24 | 1uF-50V |
| 3 | 1 | C6 | 560PF |
| 4 | 1 | C8 | 2.2uF-100V-C1210C225K1RACTU |
| 5 | 1 | C9 | YXF47/63 |
| 6 | 2 | R11, C17 | X |
| 7 | 1 | C19 | 10KPF |
| 8 | 3 | C21, C26, C27 | 100uF-25V 105C |
| 9 | 1 | C22 | 150PF |
| 10 | 1 | C23 | 4K7pF-5% |
| 11 | 1 | C25 | 3K3pF-5% |
| 12 | 1 | DL1 | LED-V |
| 13 | 1 | DZ1 | 1N5369 |
| 14 | 1 | DZ2 | 5V1W |
| 15 | 2 | D1, D2 | BYV28-200 |
| 16 | 3 | D3, D4, D5 | STTH1R02A |
| 17 | 3 | FD1, FD2, FD3 | FIDUCIAL |
| 18 | 1 | FIX1 | FIX35 |
| 19 | 2 | JP1, JP2 | MOLEX4 |
| 20 | 3 | L1, L2, L3 | 10uH 744 040 641 00 |
| 21 | 3 | PD1, PD2, PD3 | PSL300 |
| 22 | 1 | Q1 | IRF640N |
| 23 | 1 | Q2 | BC847 |
| 24 | 1 | Q3 | SUD80460E-GE3 |
| 25 | 2 | R1, R6 | 1K |
| 26 | 1 | R2 | 100R |
| 27 | 1 | R3 | 5K6 |
| 28 | 1 | R4 | 1K |
| 29 | 1 | R5 | 22R |
| 30 | 1 | R7 | R22-1W |
| 31 | 2 | R8, R15 | 7K5 |
| 32 | 1 | R9 | 2k49 |
| 33 | 2 | R10, R14 | 1K0 |
| 34 | 1 | R12 | 1K2 |
| 35 | 1 | R13 | 18K |
| 36 | 1 | R16 | 8K2 |
| 37 | 1 | R17 | 6K8 |
| 38 | 1 | T1 | TSWTCH15 |
| 39 | 1 | U1 | UC3843BD1013TR |



PRODUCT NAME : TEX-TFT

DESIGNER : FRANCESCHI A.

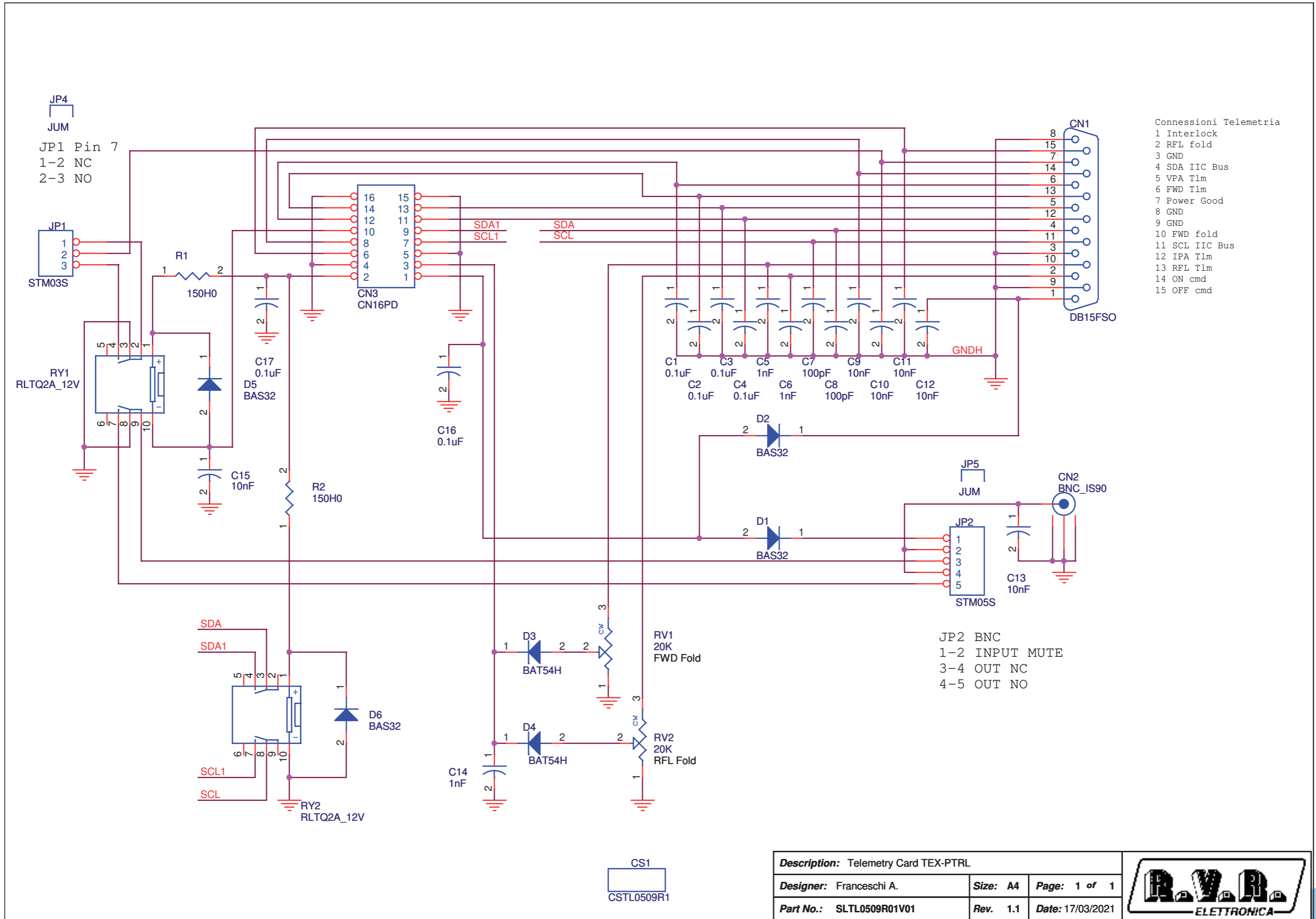
ARCHIVING : "RVUT" SERVER, "RILASCIATI" FOLDER

PART NAME : TELEMETRY CARD

DATE : 22/06/20 REVISION : 1.0 SCALE : 2:1 SIZE : A4 PAGE : 1 DI 1

PROJECT CODE : <> DOCUMENT CODE : SLTL0509R01V**

SLTL0509R01V01



| | | |
|---|------------------|-------------------------|
| Description: Telemetry Card TEX-PTRL | | |
| Designer: Franceschi A. | Size: A4 | Page: 1 of 1 |
| Part No.: SLTL0509R01V01 | Rev.: 1.1 | Date: 17/03/2021 |



SLTL0509R01V01

Telemetry Card TEX-PTRL Revised: 17/03/2021
 SLTL0509R01V01 Revision: 1.1
 Franceschi A.

| Item | Quantity | Reference | Part | Description |
|------|----------|-----------------------------|------------|------------------------------|
| 1 | 1 | CN1 | DB15FSO | DB15 fem. PCB 90° conn. |
| 2 | 1 | CN2 | BNC_IS90 | Metal BNC conn. 90° |
| 3 | 1 | CN3 | CN16PD | 16 way pcb conn. with holder |
| 4 | 1 | CS1 | CSTL0509R1 | Printed Circuit board |
| 5 | 6 | C1, C2, C3, C4, C16, C17 | 0.1uF | 0805 SMD capacitor |
| 6 | 3 | C5, C6, C14 | 1nF | 0805 SMD capacitor |
| 7 | 2 | C7, C8 | 100pF | 0805 SMD capacitor |
| 8 | 6 | C9, C10, C11, C12, C13, C15 | 10nF | 0805 SMD capacitor |
| 9 | 4 | D1, D2, D5, D6 | BAS32 | MINIMELF SMD Diode |
| 10 | 2 | D3, D4 | BAT54H | SOD123F SMD Diode |
| 11 | 1 | JP1 | STM03S | Male strip 3 pin |
| 12 | 1 | JP2 | STM05S | Male strip 5 pin |
| 13 | 2 | JP4, JP5 | JUM | Jumper |
| 14 | 2 | RV1, RV2 | 20K | Trimmer Rg H 3006 |
| 15 | 2 | RY1, RY2 | RLTQ2A_12V | TQ2 relay |
| 16 | 2 | R1, R2 | 150H0 | 0805 SMD res. |