

Title **CLOCK\_GENERATOR**

Size: A4

Number:6

Revision:2.0

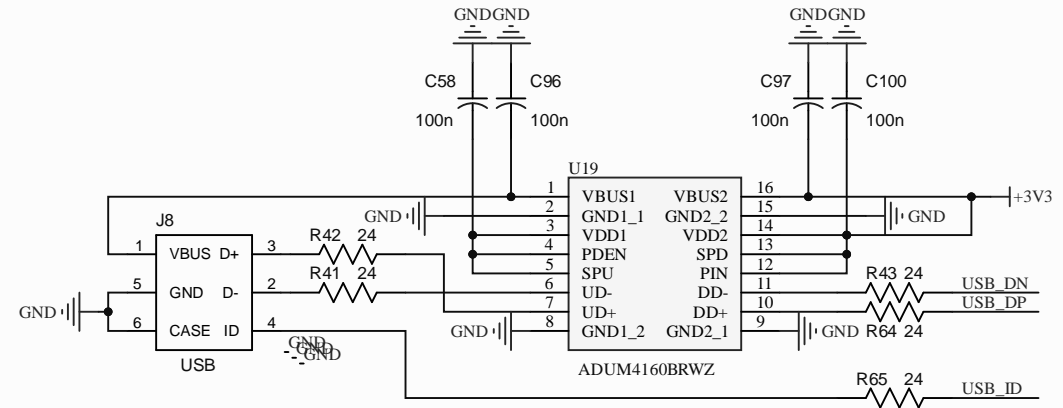
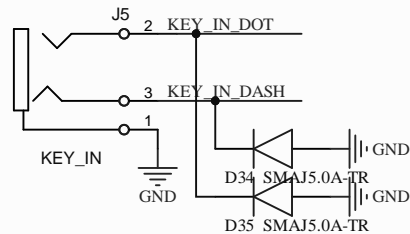
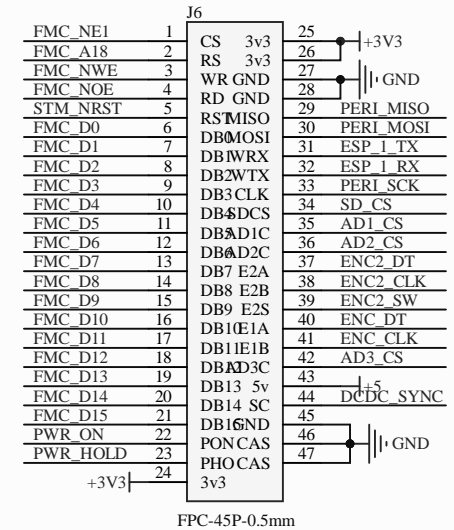
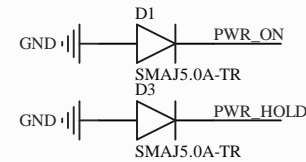
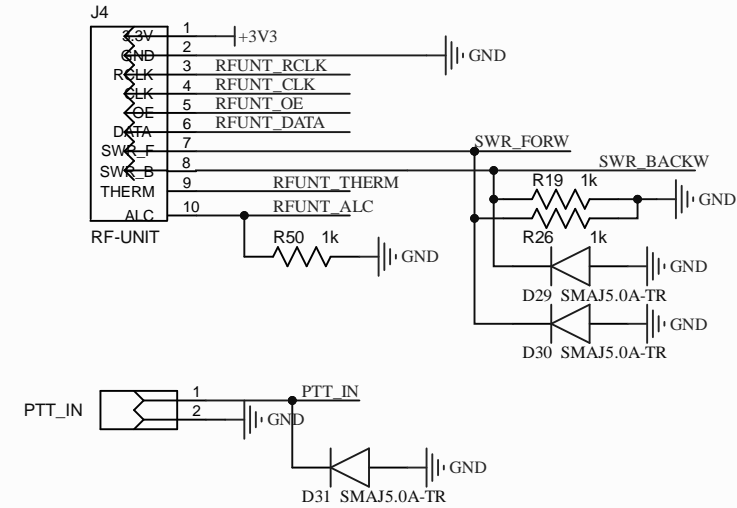
Date: 02.07.2021

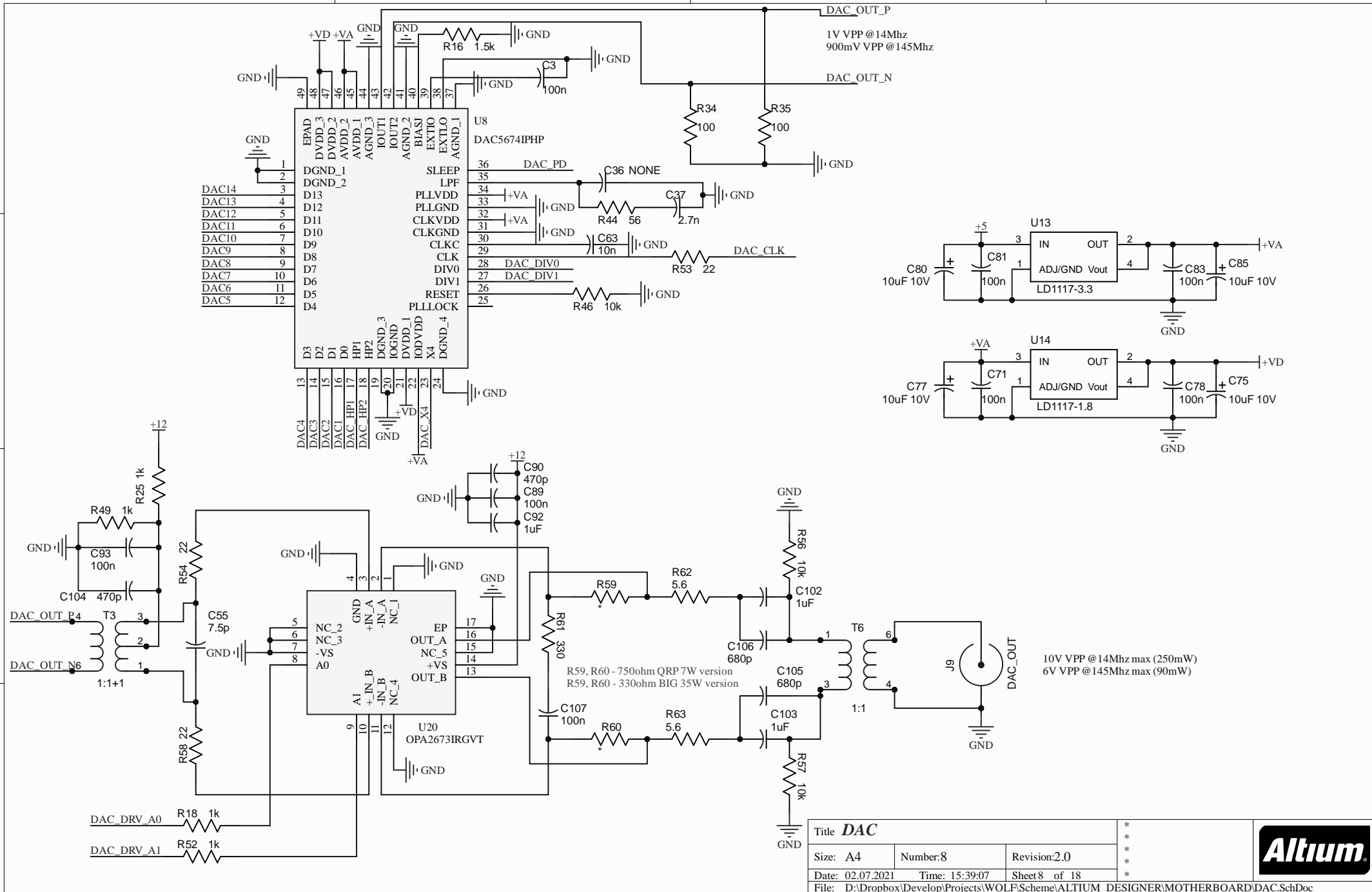
Time: 15:39:07

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File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTUM\_DESIGNER\MOTHERBOARD\CLOCK\_GENERATOR.SchDoc





Title **DAC**

Size: A4

Number:8

Revision:2.0

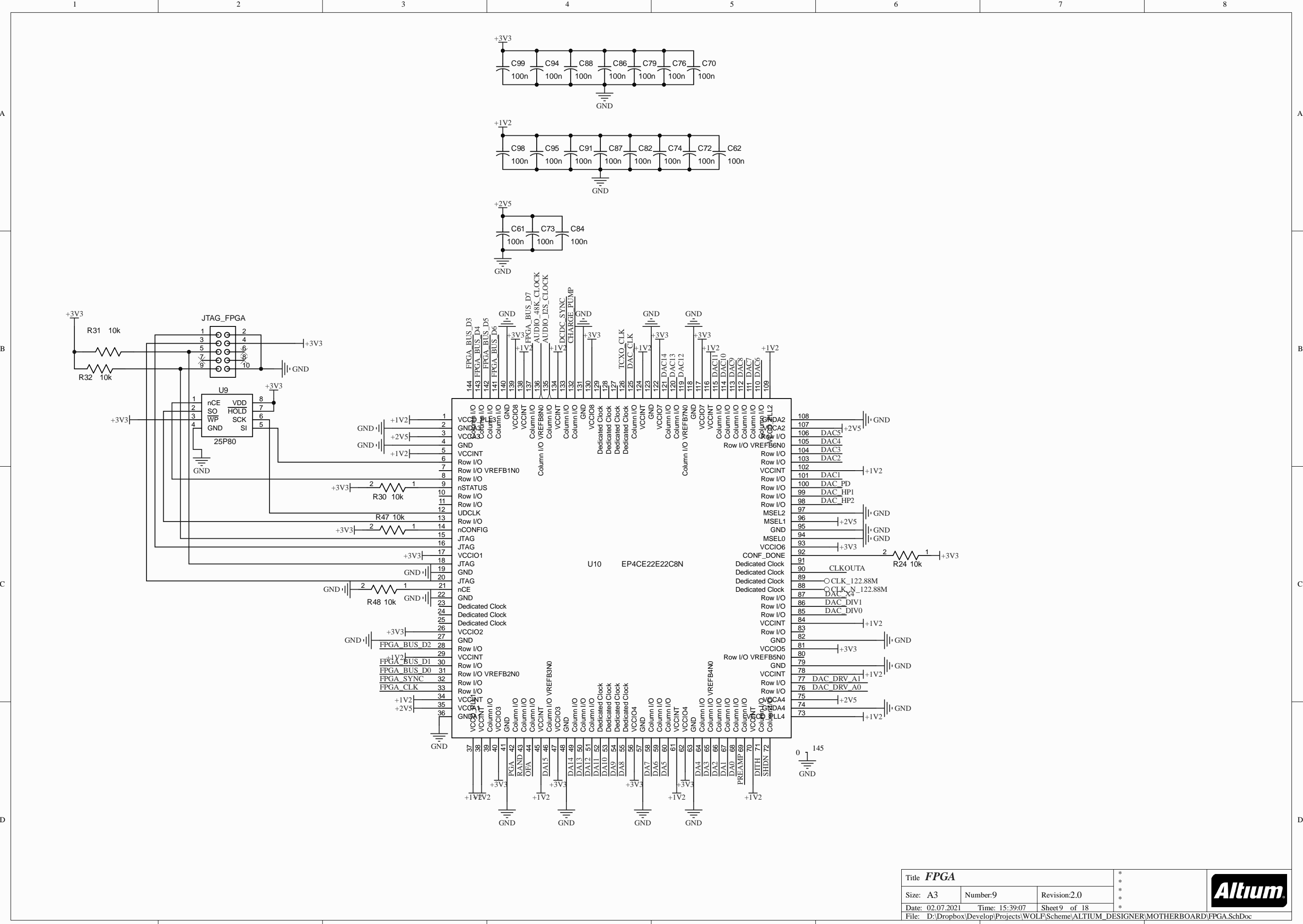
Date: 02.07.2021

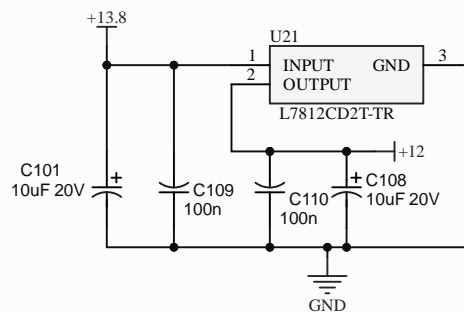
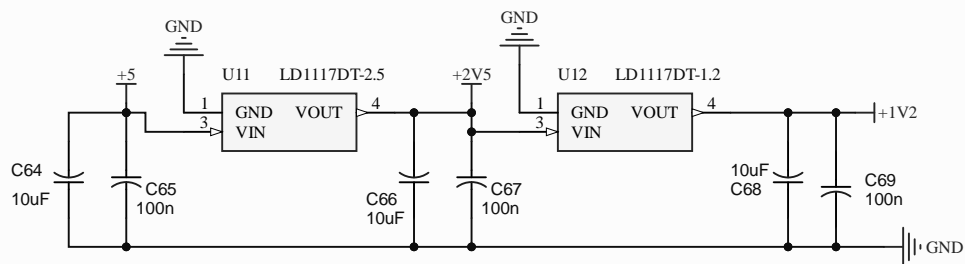
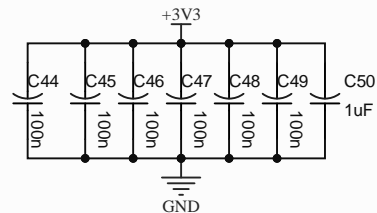
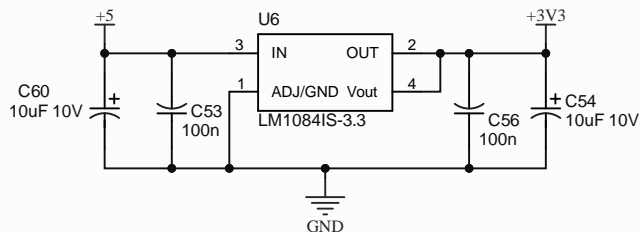
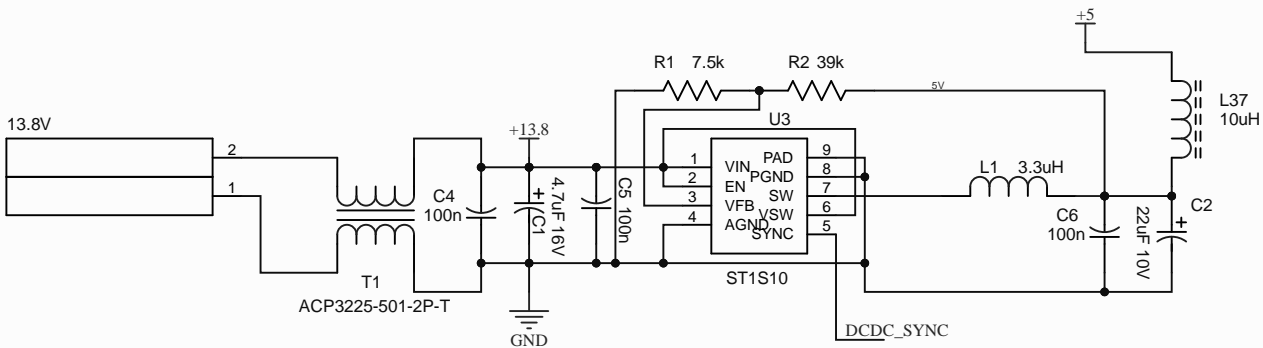
Time: 15:39:07

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File: D:\Dropbox\Develop\Projects\WOLF\Scheme\ALTUM\_DESIGNER\MOTHERBOARD\DAC.SchDoc











| Component                     | Description   | Designator  | Footprint                | Quantity |
|-------------------------------|---|---|--------------------------|----------|
|                               | 2 Pin   | ROOT  | 01022-0200               | 1        |
|                               | 276 Pin   | 7TAG, 7PGA,<br>7TAG, 7TAD2  | 10C10                    | 2        |
|                               | RES_0805  | R99, R60  | RES_0805                 | 2        |
| 07NCR06                       | Bystrated crystal   | R3  | RES_0805                 | 1        |
| 1:1                           | Transformer   | 9   | TRANSF_ACORE             | 1        |
| 1:1.1                         | Transformer   | 13  | TRANSF_ACORE2            | 1        |
| 1:3 AG14.601                  | Transformer   | 14  | TRANSF_ACORE2            | 1        |
| W                             | RES_0805  | R17, R18, R19, R25,<br>R26, R49, R50, R52   | RES_0805                 | 6        |
| W                             | RES_0805  | R9  | RES_0805                 | 1        |
| W                             | CAP_0805  | C7, C11, C12, C13,<br>C14, C15, C16, C19,<br>C19, C21, C22  | CAP_0805                 | 11       |
| W                             | CAP_1206  | C102, C103  | CAP_1206                 | 2        |
| W                             | CAPAE_4.3k4.3k5.4   | C25, C26, C29   | CAPAE_4.3k4.3k5.4        | 3        |
| 1:5                           | RES_0805  | R16, R66  | RES_0805                 | 2        |
| 25C31031P                     | Transistor BJT NPN  | Q1  | 25C31031G                | 1        |
| 2.3n                          | CAP_0805  | C37   | CAP_0805                 | 1        |
| 1.3nH                         | IND_1012  | 1   | IND_1012                 | 1        |
| 4.3kF 16V                     | CAPAE_4.0k4.0k5.4   | C1  | CAPAE_4.0k4.0k5.4        | 1        |
| RES_1206                      | R62, R63  | RES_1206  | 2                        |          |
| RES_0805                      | R5, R6, R7, R9, R51   | RES_0805  | 5                        |          |
| W                             | CAP_0805  | C38, C39  | CAP_0805                 | 2        |
| 1:5                           | RES_0805  | R1  | RES_0805                 | 1        |
| 2.5p                          | CAP_0805  | C35   | CAP_0805                 | 1        |
| 8mH2                          | ETS_200-20-1  | C9  | ETS_200-20-1             | 1        |
| 1:20                          | CAP_0805  | C136  | CAP_0805                 | 1        |
| W                             | RES_0603  | R68, R69  | RES_0603                 | 2        |
| W                             | RES_0805  | R10, R11, R24, R27,<br>R28, R30, R31, R32,<br>R33, R36, R37, R38,<br>R39, R46, R47, R48,<br>R56, R57  | RES_0805                 | 18       |
| W                             | CAP_0805  | C63, C137   | CAP_0805                 | 2        |
| W                             | CAP_0805  | C121  | CAP_0805                 | 1        |
| W                             | CAP_0805  | C40, C41, C50, C52,<br>C64, C66, C68  | CAP_0805                 | 1        |
| W                             | CAPAE_4.3k4.3k5.4   | C8, C20, C23, C24,<br>C32, C54, C60, C75,<br>C77, C80, C85  | CAPAE_4.3k4.3k5.4        | 11       |
| W                             | CAPAE_4.3k4.3k5.4   | C101, C108  | CAPAE_4.3k4.3k5.4        | 2        |
| W                             | Inductor  | L37   | IND_FERRITE_CORE         | 1        |
| 12.28mHz TCXO 3.3<br>10/10M52 | Crystal or Oscillator   | X102  | 88L200X01T               | 1        |
| W                             | RES_0805  | R40, R53, R54, R58  | RES_0805                 | 4        |
| W                             | CAP_0805  | C51, C43  | CAP_0805                 | 2        |
| 22uF 10V                      | CAPAE_4.3k4.3k5.4<br>(NoValue)<br>EEPFC_40uH  | C2, C125, C126  | CAPAE_4.3k4.3k5.4        | 3        |
| 22uH                          | IND_1206  | L7  | 14.1230                  | 1        |
| W                             | RES_0805  | R41, R42, R43, R44,<br>R65  | RES_0805                 | 5        |
| 25P80                         | 25P80   | L9  | 25P80                    | 1        |
| W                             | RES_0805  | R5, R59   | RES_0805                 | 2        |
| W                             | RES_0805  | R2  | RES_0805                 | 1        |
| W                             | RES_0805  | R12, R14, R15, R45  | RES_0805                 | 4        |
| W                             | RES_0805  | R44, R67  | RES_0805                 | 2        |
| W                             | RES_0805  | R22, R23  | RES_0805                 | 2        |
| W                             | RES_0805  | R34, R35  | RES_0805                 | 2        |
| W                             | CAP_0805  | C1, C4, C5, C6, C5,<br>C16, C19, C21, C23,<br>C31, C44, C45, C46,<br>C47, C48, C49, C51,<br>C53, C56, C57, C58,<br>C59, C61, C62, C65,<br>C67, C69, C70, C71,<br>C72, C73, C74, C76,<br>C78, C79, C81, C82,<br>C83, C84, C86, C87,<br>C88, C89, C91, C93,<br>C94, C95, C96, C97,<br>C98, C99, C100, C107,<br>C109, C110, C112,<br>C113, C114, C115,<br>C117, C118, C120,<br>C123, C124, C124,<br>C135 | CAP_0805                 | 66       |
| 122.88mHz                     | WV7055A<br>VC-451CA<br>V22.8800M-GGG(T)   | X01   | WV7055A                  | 1        |
| W                             | RES_0805  | R20, R21  | RES_0805                 | 2        |
| 22pF                          | CAP_0805  | C37, C38, C39   | CAP_0805                 | 3        |
| 22uF 10V                      | CAPAE_4.3k4.3k5.4   | C33, C34  | EEPFC_40uH               | 2        |
| W                             | RES_0805  | R61   | RES_0805                 | 1        |
| W                             | CAP_0805  | C10, C50, C104, C116  | CAP_0805                 | 4        |
| W                             | RES_0805  | R11   | RES_0805                 | 1        |
| W                             | CAP_1206  | C105, C106  | CAP_1206                 | 2        |
| 400C25.12.760KHz 6-T          | Crystal or Oscillator   | X1  | 400C25                   | 1        |
| 0.22/0.25 50V 20-T            | Transformer   | T1  | TRANSF_ACORE             | 1        |
| W                             | WMA   | T0  | T1.5431                  | 1        |
| ADU176                        | ADU1  | B71   | ADU176P1033K365-<br>1M   | 1        |
| ADUM1400RWZ                   | Integrated Circuit  | U19   | ADUM1400RWZ              | 1        |
| BA174C                        | BA174C  | Q2  | BA174C                   | 1        |
| BA174T                        | BA174T  | Q1, Q3  | CAP_0805                 | 2        |
| CR1220                        | BR1620AFA   | B1  | CR1220AFA                | 1        |
| DAC5674P4P                    | Integrated Circuit  | U8  | 2P50P9500X900X100<br>P4P | 1        |
| W                             | WMA   | Q9  | T1.5431                  | 1        |
| EP4K10K-22-8N                 | EP4K10K-22-8N   | U10   | 2P1744-20.2222A          | 1        |
| W                             | 01022-0200  | 7   | 01022-0200               | 1        |
| EPIC-AP 4.5mm                 | Sametec   | JS  | 2112450050400            | 1        |
| W                             | W   | Q2  | Q1.36                    | 1        |
| 3812C102-1R                   | Integrated Circuit  | U01   | 3812C102TTR              | 1        |
| ED11T1.1-8                    | ED11T05.1-8   | U14   | ED11T05.1-8              | 1        |
| ED11T1.1-3                    | ED11T05.1-3   | U15   | ED11T05.1-3              | 1        |
| ED11T1T01-1.2                 | ED11T1T01-1.2-UPAK  | U12   | ED11T1T01-1.2-UPAK       | 1        |
| ED11T1T01-2.5                 | ED11T1T01-2.5-UPAK  | U11   | ED11T1T01-2.5-UPAK       | 1        |
| ED11T1T01-1.1                 | ED11T1T01-1.1-UPAK  | U18   | ED11T1T01-1.1-UPAK       | 1        |
| ED1085                        | ED1085  | U2  | ED1085                   | 1        |
| ED1085-3.3                    | ED1085-3.3  | U6  | ED1085-3.3               | 1        |
| ED1085-3.3                    | ED1085-3.3  | U16   | ED1085-3.3               | 1        |
| LT6400UD-200PBF               | Single Channel, Low<br>Noise, Low Distortion<br>Differential ADC<br>Driver for 300 MHz IF<br>1800 MHz Typical<br>GSM, 400V to 1.5<br>Typical SR, 2.85 to 3.5<br>V, 16 Pin QFN (UD-<br>N), Industrial, Pb-<br>Free | U17   | LT6400-16_N              | 1        |
| W                             | CAP_0805  | C36   | CAP_0805                 | 1        |
| SPAN73802Y                    | Integrated Circuit  | U20   | SPAN73802Y               | 1        |
| SPAN800                       | SPAN800   | U1  | SPAN800                  | 1        |
| PTT-IN                        | 01022-0200  | PT1-IN  | 01022-0200               | 1        |
| RF-ANT                        | 276 Pin   | A1  | RF131-0136               | 1        |
| ST1-2020MG                    | ST1-2020MG  | D1, D2, D3, D5  | ST1-2020MG               | 4        |
| SWAUS-6A-TR                   | Diode   | D1, D2, D3, D36, D37,<br>D38, D39, D40  | SWAUS-6A-TR              | 12       |
| SP14K18                       | 4 pins.com  | U15   | sp14k18.com              | 1        |
| ST1510                        | ST1510  | U3  | ST1510                   | 1        |
| ST1621H43W16-<br>rev.V        | ST1621H43W16  | U5  | ST1621H43W16             | 1        |
| Thermistor 20k                | Thermistor  | U19   | MT1621H43W16             | 1        |
| W                             | 2.1734000-3   | U1  | 2.1734000-3              | 1        |
| W                             | W   | U7  | W                        | 1        |
| W                             | W   | U7  | W                        | 1        |
| W                             | W   | U4  | W                        | 1        |