

Перв. примен.

Спроб. №

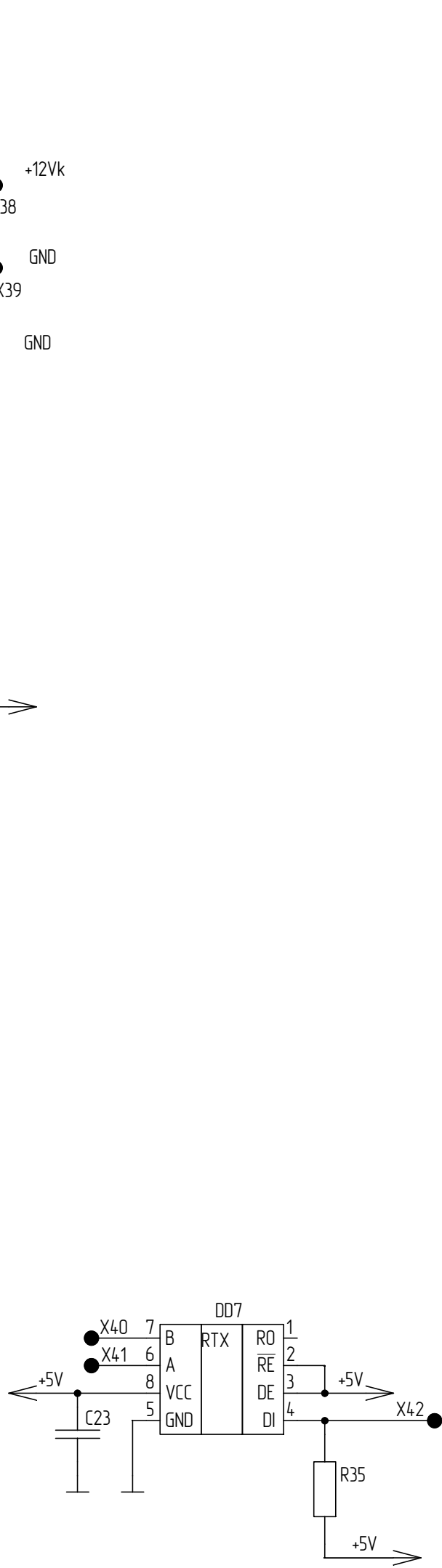
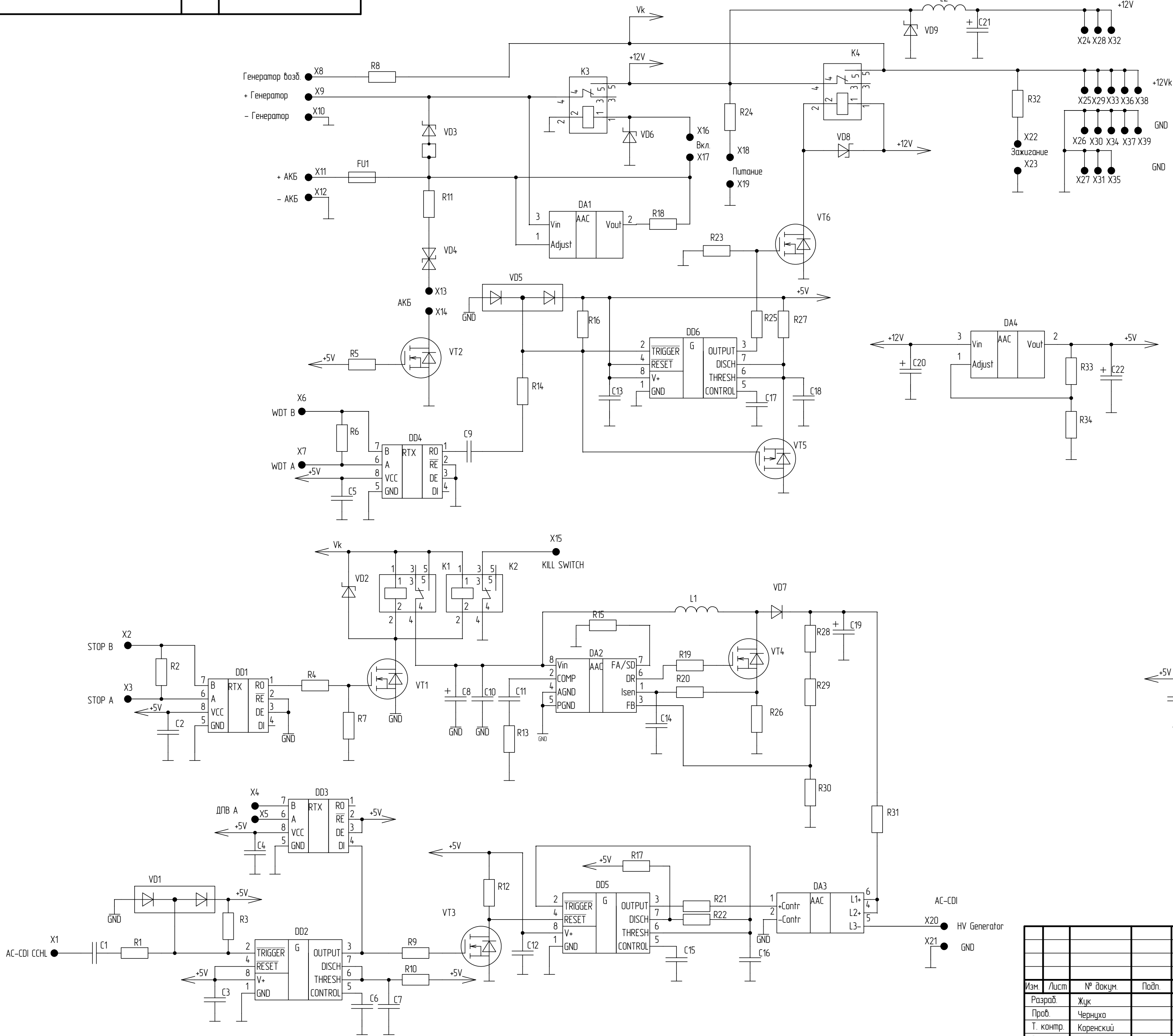
Подп. и дата

Инф. № дубл.

Взам. инф. №

Подп. и дата

Инф. № подл.



| | | | | |
|-----------|-----------|----------|-------|------|
| Изм. | Лист | № докум. | Подп. | Дата |
| Разраб. | Жук | | | |
| Проб. | Чернуха | | | |
| Т. контр. | Коренский | | | |
| Согласов. | | | | |
| Н. контр. | Козин | | | |
| Умб. | Гейстер | | | |

| | | | |
|------------------------------------|-------|---------|---|
| АЭРО 94А 01.060.000.91033 | | | |
| Модуль блока силовой электроники | | | |
| Схема электрическая принципиальная | | | |
| Лист | Масса | Масштаб | 1 |
| ЗАО "АЭРОМАШ" | | | |

| Перв. примен. | | Зона | Поз. обозначение | Наименование | Кол. | Примечание | | | |
|---------------|--|----------|---|---|----------------------------|--|------------------|------|--------|
| | | | | | | | | | |
| Справ. № | | | | Конденсаторы | | | | | |
| | | C1 | Cap, 0.01uF, 10%, 50V, 0603, X7R, -55 to +125 (C1608X7R1H103K) | | 1 | TDK | | | |
| | | C2...C5 | Cap, 0.1uF, 10%, 50V, 0603, X7R, -55 to +125 (0603B104K500N) | | 4 | Hitano | | | |
| | | C6 | Cap, 0.01uF, 10%, 50V, 0603, X7R, -55 to +125 (C1608X7R1H103K) | | 1 | TDK | | | |
| | | C7 | Cap, 0.1uF, 10%, 50V, 0603, X7R, -55 to +125 (0603B104K500N) | | 1 | Hitano | | | |
| | | C8 | Cap Tant, 100uF, 20V, 20%, D, -55 to +125 (T491D107K020AT) | | 1 | Kemet | | | |
| | | C9 | Cap, 0.01uF, 10%, 50V, 0603, X7R, -55 to +125 (C1608X7R1H103K) | | 1 | TDK | | | |
| | | C10 | Cap, 0.1uF, 10%, 50V, 0603, X7R, -55 to +125 (0603B104K500N) | | 1 | Hitano | | | |
| | | C11 | Cap, 0.01uF, 10%, 50V, 0603, X7R, -55 to +125 (C1608X7R1H103K) | | 1 | TDK | | | |
| | | C12,C13 | Cap, 0.1uF, 10%, 50V, 0603, X7R, -55 to +125 (0603B104K500N) | | 2 | Hitano | | | |
| | | C14 | Cap, 100pF, 5%, 50V, 0603, COG, -55 to +125 (0603N101J500N) | | 1 | Hitano | | | |
| | | C15 | Cap, 0.01uF, 10%, 50V, 0603, X7R, -55 to +125 (C1608X7R1H103K) | | 1 | TDK | | | |
| | | C16 | Cap, 0.1uF, 10%, 50V, 0603, X7R, -55 to +125 (0603B104K500N) | | 1 | Hitano | | | |
| | | C17 | Cap, 0.01uF, 10%, 50V, 0603, X7R, -55 to +125 (C1608X7R1H103K) | | 1 | TDK | | | |
| | | C18 | Cap, 0.33uF, 10%, 16V, 0603, X7R, -55 to +125 (0603B334K160N) | | 1 | Hitano | | | |
| | | C19 | Cap, Elec, 10uF, 200V, 20%, Dia=10mm, -40 to +105 (200WXA10MEFCT810X9) | | 1 | Rubycon | | | |
| | | | | | | | | | |
| | | | C20,C21 | Cap Tant, 100uF, 20V, 20%, D, -55 to +125 (T491D107K020AT) | | 2 | Kemet | | |
| | | | C22 | Cap Tant, 10uF, 10V, 10%, A, -55 to +125 (T491A106K010AT) | | 1 | Kemet | | |
| | | | C23 | Cap, 0.1uF, 10%, 50V, 0603, X7R, -55 to +125 (0603B104K500N) | | 1 | Hitano | | |
| | | | | | | | | | |
| | | | | Микросхемы | | | | | |
| | | | DA1 | LM317BD2TR4G IC, PMIC, LDO, to 40Vin, 1,2...37 Vout, 1,5 A, -40 to +125 | | 1 | ON Semiconductor | | |
| | | | | | | | | | |
| | | DA2 | LM3478MM/NOPB PMIC, DC-DC, 2.97...40Vin, 8-MSOP, -40 to +125 | | 1 | TI | | | |
| | | DA3 | LCA182S Relay, 350V, 120mA, 350hm, AC/DC, SMD-6, -40 to +85 | | 1 | IXYS | | | |
| | | DA4 | LM317BD2TR4G IC, PMIC, LDO, to 40Vin, 1,2...37 Vout, 1,5 A, -40 to +125 | | 1 | ON Semiconductor | | | |
| | | | | | | | | | |
| | | | | | АЭРО 94А 01.060.000.910ПЭЗ | | | | |
| | | | | | | | | | |
| | | Изм. | Лист | № докум. | Подп. | Дата | | | |
| Инв. № подл. | | Разраб. | Жук | | | Модуль блока силовой электроники Перечень элементов | Лист | Лист | Листов |
| | | Пров. | Чернухо | | | | | 1 | 5 |
| | | Т. контр | Коренский | | | | ЗАО "АЭРОМАШ" | | |
| | | Н.контр. | Козин | | | | | | |
| | | Утв. | Гейстер | | | | | | |

| Зона | Поз. обозначение | Наименование | Кол. | Примечание |
|------|---------------------|---|------|-------------------|
| | DD1 | ADM4853ARZ Interface, 422/485, 10Mbps, 5V, Half, SOIC-8, -40 to +85 | 1 | AD |
| | DD2 | LMC555CMX Timer/Oscillator, 3MHz, 1.5V-15V, 8 - SOIC, -40 to 85 | 1 | TI |
| | DD3,DD4 | ADM4853ARZ Interface, 422/485, 10Mbps, 5V, Half, SOIC-8, -40 to +85 | 2 | AD |
| | DD5,DD6 | LMC555CMX Timer/Oscillator, 3MHz, 1.5V-15V, 8 - SOIC, -40 to 85 | 2 | TI |
| | DD7 | ADM4853ARZ Interface, 422/485, 10Mbps, 5V, Half, SOIC-8, -40 to +85 | 1 | AD |
| | FU1 | Предохранитель MF-R500 PTC, 30Vmax, 40Amax, 5Ahold, 10Atrip, MF-R500, -40 to +85 | 1 | Bourns |
| | K1...K4 | Реле V23086-C1001-A403 Relay, 12V, 567mW, 30A, -40 to +125 | 4 | TE |
| | | Катушки индуктивности | | |
| | L1 | 7447709471 470 uH, 20%, 1.4A, 560mOhm, SMT, 12x12, -40 to +125 | 1 | Würth Electronics |
| | L2 | 100uH, 5A, 110 mOhm, 20%, SMD, -55 to+155 (IHLP6767GZER101M11) | 1 | Vishay |
| | | Резисторы | | |
| | R1 | Res, 200 Ohm, 0.1W, 5%, 0603, -55 to +155 (RC0603J200R) | 1 | |
| | R2 | Res, 120 Ohm, 0.1W, 5%, 0603, -55 to +155 (RC0603J120R) | 1 | FaithfulLink |
| | R3 | Res, 10 kOhm, 0.1W, 1%, 0603, -55 to +155 (RC0603F10K) | 1 | FaithfulLink |
| | R4 | Res, 2.2 Ohm, 0.1W, 5%, 0603, -55 to +155 (RC0603J2R2) | 1 | FaithfulLink |
| | R5 | Res, 1 kOhm, 0.1W, 1%, 0603, -55 to +155 (RC0603F1K) | 1 | FaithfulLink |
| | R6 | Res, 120 Ohm, 0.1W, 5%, 0603, -55 to +155 (RC0603J120R) | 1 | FaithfulLink |
| | R7 | Res, 10 kOhm, 0.1W, 1%, 0603, -55 to +155 (RC0603F10K) | 1 | FaithfulLink |
| | R8 | Res, 100 Ohm, 10W, 5%, 2010 (CHF2010CNP101RX) | 1 | Bourns |
| | R9 | Res, 2.2 Ohm, 0.1W, 5%, 0603, -55 to +155 (RC0603J2R2) | 1 | FaithfulLink |
| | R10 | Res, 22 kOhm, 0.1W, 1%, 0603, -55 to +155 (RC0603F22K) | 1 | FaithfulLink |
| | R11 | Res, 200 Ohm, 0.1W, 5%, 0603, -55 to +155 (RC0603J200R) | 1 | |

| | | | | |
|--------------|--------------|--------------|--------------|--------------|
| Инв. № подл. | Подп. и дата | Взам. инв. № | Инв. № дубл. | Подп. и дата |
| | | | | |

АЗРО 94А 01.060.000.910ПЭЗ

| | | | | |
|------|------|----------|-------|------|
| Изм. | Лист | № докум. | Подп. | Дата |
| | | | | |

| |
|------|
| Лист |
| 2 |

| Зона | | Поз. обозначение | Наименование | | | Кол. | Примечание |
|----------------------------|--------------|--|--------------|----------------------------|--|--------------|------------|
| А3Р0 94А 01.060.000.910П33 | R12 | Res, 1 kOhm, 0.1W, 1%, 0603, -55 to +155 (RC0603F1K) | 1 | FaithfulLink | | | |
| | R13 | Res, 51 kOhm, 0.1W, 1%, 0603, -55 to +155 (RC0603F51K) | 1 | FaithfulLink | | | |
| | R14 | Res, 1 kOhm, 0.1W, 1%, 0603, -55 to +155 (RC0603F1K) | 1 | FaithfulLink | | | |
| | R15 | Res, 150 kOhm, 0.1W, 1%, 0603, -55 to +155 (RC0603F150K) | 1 | FaithfulLink | | | |
| | R16 | Res, 10 kOhm, 0.1W, 1%, 0603, -55 to +155 (RC0603F10K) | 1 | FaithfulLink | | | |
| | R17 | Res, 100 kOhm, 0.1W, 1%, 0603, -55 to +155 (RC0603F100K) | 1 | FaithfulLink | | | |
| | R18 | Res, 4.7 Ohm, 0.5W, 5%, 1206, -55 to +155 (CRM1206-JW-4R7ELF) | 1 | Bourns | | | |
| | R19 | Res, 2.2 Ohm, 0.1W, 5%, 0603, -55 to +155 (RC0603J2R2) | 1 | FaithfulLink | | | |
| | R20 | Res, 120 Ohm, 0.1W, 5%, 0603, -55 to +155 (RC0603J120R) | 1 | FaithfulLink | | | |
| | R21 | Res, 200 Ohm, 0.1W, 5%, 0603, -55 to +155 (RC0603J200R) | 1 | | | | |
| | R22,R23 | Res, 10 kOhm, 0.1W, 1%, 0603, -55 to +155 (RC0603F10K) | 2 | FaithfulLink | | | |
| | R24 | Res, 1 kOhm, 0.1W, 1%, 0603, -55 to +155 (RC0603F1K) | 1 | FaithfulLink | | | |
| | R25 | Res, 2.2 Ohm, 0.1W, 5%, 0603, -55 to +155 (RC0603J2R2) | 1 | FaithfulLink | | | |
| | R26 | Res, 47 mOhm, 2W, 1%, 2512, -55 to +155 (RCWE251247L0FNEA) | 1 | VISHAY | | | |
| | R27 | Res, 100 kOhm, 0.1W, 1%, 0603, -55 to +155 (RC0603F100K) | 1 | FaithfulLink | | | |
| | R28,R29 | Res, 51 kOhm, 0.1W, 1%, 0603, -55 to +155 (RC0603F51K) | 2 | FaithfulLink | | | |
| | R30 | Res, 1 kOhm, 0.1W, 1%, 0603, -55 to +155 (RC0603F1K) | 1 | FaithfulLink | | | |
| | R31 | Res, 560 Ohm, 2W, 5%, PR02, -55 to +155 (PR02000205600JR500) | 1 | Vishay | | | |
| | R32 | Res, 1 kOhm, 0.1W, 1%, 0603, -55 to +155 (RC0603F1K) | 1 | FaithfulLink | | | |
| | R33 | Res, 2.4kOhm, 0.1W, 1%, 0603, -55 to +155 (RC0603F2K4) | 1 | FaithfulLink | | | |
| | R34 | Res, 7.32 kOhm, 0.1W, 1%, 0603, -55 to +155 (RC0603F7K32) | 1 | FaithfulLink | | | |
| | R35 | Res, 1 kOhm, 0.1W, 1%, 0603, -55 to +155 (RC0603F1K) | 1 | FaithfulLink | | | |
| | | | | | | | |
| | | | Диоды | | | | |
| | VD1 | BAT54ST Rectifier, Dual, 30Vr, 200mA, 1Vf, SOT-23, -55 to +150 | 1 | Diodes Incorporated | | | |
| | VD2 | MBRS3200T3 Schottky, 200Vr, 3A, 840mVf, DO214AA, -65 to +175 | 1 | ON Semiconductor | | | |
| | VD3 | 50WQ04FN Schottky, 40Vr, 5.5A, 510mVf, TO252, -40 to +150 | 1 | International Rectifier | | | |
| | VD4 | SMBJ7.0CA Bi, 7Vrs, 12Vc, 600W, DO214AA, -55 to +150 | 1 | Fairchild | | | |
| | VD5 | BAT54ST Rectifier, Dual, 30Vr, 200mA, 1Vf, SOT-23, -55 to +150 | 1 | Diodes Incorporated | | | |
| | VD6 | MBRS3200T3 Schottky, 200Vr, 3A, 840mVf, DO214AA, -65 to +175 | 1 | ON Semiconductor | | | |
| | VD7 | MURS320T3G Rectifier, 200Vr 1A, 875mV, DO-214AB, -65 to +175 | 1 | ON Semiconductor | | | |
| | VD8,VD9 | MBRS3200T3 Schottky, 200Vr, 3A, 840mVf, DO214AA, -65 to +175 | 2 | ON Semiconductor | | | |
| | Инв. № подл. | | | А3Р0 94А 01.060.000.910П33 | | | Лист |
| | | | | | | | 3 |
| | | | | | | | |
| Подп. и дата | | Взам. инв. № | | Инв. № дубл. | | Подп. и дата | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

[illegible]

[illegible]