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| ***Формат*** | ***Зона*** | ***Поз.*** | ***Обозначение*** | | | | ***Наименование*** | | | | | ***кол.*** | ***Примеч.*** | |
|  |  |  |  | | | |  | | | | |  |  | |
|  |  |  |  | | | | *Документация* | | | | |  |  | |
|  |  |  |  | | | |  | | | | |  |  | |
| *A1* |  |  | *ГУИР.687243.019 СБ* | | | | *Сборочный чертеж* | | | | | *1* |  | |
|  |  |  |  | | | |  | | | | |  |  | |
|  |  |  |  | | | | *Детали* | | | | |  |  | |
|  |  |  |  | | | |  | | | | |  |  | |
| *A1* |  | *1* | *ГУИР.758715.019* | | | | *Плата печатная* | | | | | *1* |  | |
|  |  |  |  | | | |  | | | | |  |  | |
|  |  |  |  | | | | *Прочие изделия* | | | | |  |  | |
|  |  |  |  | | | |  | | | | |  |  | |
|  |  |  |  | | | | *Диоды* | | | | |  |  | |
|  |  | *1* |  | | | | *1N5819, 1А/25А, 40В* | | | | | *2* | *VD1-VD2* | |
|  |  | *2* |  | | | | *FR207, 2А, 1000В* | | | | | *8* | *VD3-VD10* | |
|  |  | *3* |  | | | | *SB3100, 100В 3А* | | | | | *3* | *VD11-VD13* | |
|  |  |  |  | | | |  | | | | |  |  | |
|  |  |  |  | | | | *Диодные мосты* | | | | |  |  | |
|  |  | *4* |  | | | | *GBJ2510-F, 25А 1000В* | | | | | *2* | *D1, D2* | |
|  |  |  |  | | | |  | | | | |  |  | |
|  |  |  |  | | | | *Конденсаторы* | | | | |  |  | |
|  |  | *5* |  | | | | *GRM21BR61 10мкФ 10В* | | | | | *1* | *C1* | |
|  |  | *6* |  | | | | *ECAP 100 мкФ 110В* | | | | | *1* | *С2* | |
|  |  | *7* |  | | | | *NPO 10пФ 50В* | | | | | *1* | *С3* | |
|  |  | *8* |  | | | | *ECAP 1500мкФ 10В* | | | | | *1* | *С4* | |
|  |  | *9* |  | | | | *NPO 2.2пФ 50В* | | | | | *1* | *С5* | |
|  |  | *10* |  | | | | *ECAP AXIAL (К50-29), 470 мкФ* | | | | | *1* | *С6* | |
|  |  | *11* |  | | | | *X7R 2.2мкФ 25В* | | | | | *1* | *С7* | |
|  |  |  |  | | | |  | | | | |  |  | |
|  |  |  | |  |  | *ГУИР.687243.019* | | | | | | | | |  |
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| *Изм* | *Лист* | *№ докум.* | | *Подп.* | *Дата* |  |
| *Разраб.* | | *Насевич* | |  |  | *Модуль электронный* | | *Лит* | | | *Лист* | | *Листов* | |
| *Проверил* | | *Мадвейко* | |  |  | *о* |  |  | *1* | | *4* | |
| *Т. контр.* | |  | |  |  | *БГУИР гр.810201* | | | | | | |
| *Н. Контр* | |  | |  |  |
| *Утв.* | |  | |  |  |
| ***Формат*** | ***Зона*** | ***Поз.*** | ***Обозначение*** | | | | ***Наименование*** | | | | | ***кол.*** | ***Примеч.*** | |
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|  |  | *12* |  | | | | *X7R 0.1мкФ 1kВ* | | | | | *1* | *С8* | |
|  |  | *13* |  | | | | *X7R 5600пФ 50В* | | | | | *1* | *С9* | |
|  |  | *14* |  | | | | *К78-99 45мкФ, 250 В* | | | | | *1* | *С10* | |
|  |  | *12* |  | | | | *X7R 0.1мкФ 250В* | | | | | *1* | *С11* | |
|  |  | *13* |  | | | | *X7R 0.33мкФ 25В* | | | | | *1* | *С12* | |
|  |  | *14* |  | | | | *X7R 8200пФ 50В* | | | | | *1* | *С13* | |
|  |  | *15* |  | | | | *ECAP AXIAL 470мкФ 63В* | | | | | *1* | *С14* | |
|  |  | *16* |  | | | | *NPO 150пФ 50В* | | | | | *1* | *С15* | |
|  |  |  |  | | | |  | | | | |  |  | |
|  |  |  |  | | | | *Микросхемы* | | | | |  |  | |
|  |  | 17 |  | | | | *Стабилизатор напряжения* | | | | |  |  | |
|  |  |  |  | | | | *LD111 “STMICROELECTRONICS”* | | | | | *1* | *DA1* | |
|  |  |  |  | | | |  | | | | |  |  | |
|  |  | *18* |  | | | | *Стабилизатор напряжения* | | | | |  |  | |
|  |  |  |  | | | | *TNY265 “All POWERINT”* | | | | | *1* | *DA1* | |
|  |  |  |  | | | |  | | | | |  |  | |
|  |  | *19* |  | | | | *Wi-Fi модуль на микроконтроллере* | | | | |  |  | |
|  |  |  |  | | | | *EPS8266 “Espressif Systems”* | | | | | *1* | *DD1* | |
|  |  |  |  | | | |  | | | | |  |  | |
|  |  | *20* |  | | | | *ШИМ генератор XY-LPWM* | | | | |  |  | |
|  |  |  |  | | | | *“Shenzhen Alisi Electronic Technology”* | | | | | *1* | *DD2* | |
|  |  |  |  | | | |  | | | | |  |  | |
|  |  | *21* |  | | | | *Микросхема управления* | | | | |  |  | |
|  |  |  |  | | | | TCA785HKLA1 “SIEMESNS” | | | | | *1* | DD3 | |
|  |  |  |  | | | |  | | | | |  |  | |
|  |  |  |  | | | | Оптроны | | | | |  |  | |
|  |  | *22* |  | | | | *4N25, Оптопара c транзисторным* | | | | | *2* | *U1, U2* | |
|  |  |  |  | | | | *выходом* | | | | |  |  | |
|  |  |  |  | | | |  | | | | |  |  | |
|  | |  | |  |  | *ГУИР.687243.001* | | | | | | | | *Лист* |
|  | |  | |  |  | *2* |
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| *Н. Контр* | |  | |  |  |  | |  | | | | | | |
| *Утв.* | |  | |  |  |
| ***Формат*** | ***Зона*** | ***Поз.*** | ***Обозначение*** | | | | ***Наименование*** | | | | | ***кол.*** | ***Примеч.*** | |
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|  |  |  |  | | | | *Резисторы* | | | | |  |  | |
|  |  | *23* |  | | | | *0.125Вт 0805 10 кОм, 1%* | | | | | *1* | *R1* | |
|  |  | *24* |  | | | | *0.125Вт 0805 3.6 кОм, 1%* | | | | | *1* | *R2* | |
|  |  | *25* |  | | | | *0.125Вт 0805 2 кОм, 5%* | | | | | *1* | *R3* | |
|  |  | *26* |  | | | | *0.125Вт 0805 1 кОм, 1%* | | | | | *1* | *R4* | |
|  |  | *27* |  | | | | *0.062Вт 0402 200 кОм, 1%* | | | | | *1* | *R5* | |
|  |  | *28* |  | | | | *0.125Вт 0805 100 кОм, 5%* | | | | | *1* | *R6* | |
|  |  | *29* |  | | | | *0.125Вт 0805 15 кОм, 5%* | | | | | *1* | *R7* | |
|  |  | *30* |  | | | | *0.125Вт 0805 10 кОм, 5%* | | | | | *1* | *R8* | |
|  |  | *31* |  | | | | *0.125Вт 0805 10 Ом, 1%* | | | | | *1* | *R9* | |
|  |  | *32* |  | | | | *0.250Вт 0805 10 кОм, 5%* | | | | | *1* | *R10* | |
|  |  | *33* |  | | | | *0.250Вт 0805 2 кОм, 5%* | | | | | *1* | *R11* | |
|  |  | *34* |  | | | | *0.25Вт 1206 100 кОм, 5%* | | | | | *2* | *R12, R13* | |
|  |  | *35* |  | | | | *0.125Вт 0805 1.5 кОм, 5%* | | | | | *1* | *R14* | |
|  |  | *36* |  | | | | *0.125Вт 0805 56 кОм, 1%* | | | | | *1* | *R15* | |
|  |  | *37* |  | | | | *0.125Вт 0805 91 кОм, 1%* | | | | | *1* | *R16* | |
|  |  | *38* |  | | | | *0.125Вт 0805 240 Ом, 1%* | | | | | *1* | *R17* | |
|  |  | *39* |  | | | | *0.125Вт 0805 110 кОм, 1%* | | | | | *1* | *R18* | |
|  |  | *40* |  | | | | *0.125Вт 0805 56 кОм, 5%* | | | | | *1* | *R19* | |
|  |  | *41* |  | | | | *0.125Вт 0805 82 кОм, 1%* | | | | | *6* | *R20-R27* | |
|  |  |  |  | | | |  | | | | |  |  | |
|  |  | *42* |  | | | | *Резистор подстроечный* | | | | |  |  | |
|  |  |  |  | | | | *3006P-1-501LF, 500 Ом,* | | | | | *1* | *R28* | |
|  |  |  |  | | | |  | | | | |  |  | |
|  |  |  |  | | | | Реле | | | | |  |  | |
|  |  | *43* |  | | | | SRD-05VDC-SL-C “SONGLE” | | | | | *2* | К1, K2 | |
|  |  |  |  | | | |  | | | | |  |  | |
|  |  |  |  | | | |  | | | | |  |  | |
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|  | |  | |  |  | *ГУИР.687243.019* | | | | | | | | *Лист* |
|  | |  | |  |  | *3* |
|  | |  | |  |  |
| *Утв.* | |  | |  |  |
| ***Формат*** | ***Зона*** | ***Поз.*** | ***Обозначение*** | | | | ***Наименование*** | | | | | ***кол.*** | ***Примеч.*** | |
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|  |  |  |  | | | | *Транзисторы* | | | | |  |  | |
|  |  | *44* |  | | | | *2N7002 60В 0.2А* | | | | | *1* | *VT1* | |
|  |  | *45* |  | | | | *КТ819А 40В 10А* | | | | | *1* | *VT2* | |
|  |  | *46* |  | | | | *GT60N321 1000В 60A* | | | | | *1* | *VT3* | |
|  |  | *47* |  | | | | *2SC2785 40В 0.1А* | | | | | *2* | *VT4–VT5* | |
|  |  |  |  | | | |  | | | | |  |  | |
|  |  |  |  | | | | *Трансформаторы* | | | | |  |  | |
|  |  | *48* |  | | | | *TI-EE16-1534 “FERYSTER”* | | | | | *2* | *T1, T2* | |
|  |  | *49* |  | | | | *ALT3232M-151-T001 “TDK”* | | | | | *1* | *T3* | |
|  |  | *50* |  | | | | *ТПА-20-5в* | | | | | *1* | *T4* | |
|  |  |  |  | | | |  | | | | |  |  | |
|  |  |  |  | | | | Материалы | | | | |  |  | |
|  |  | *51* |  | | | | *МКЭЧ (белая) ТУ29-02-859-78* | | | | |  | *Краска* | |
|  |  |  |  | | | |  | | | | |  |  | |
|  |  | *52* |  | | | | *CS305-B80.* | | | | |  | *Припойная* | |
|  |  |  |  | | | |  | | | | |  | *паста* | |
|  |  |  |  | | | |  | | | | |  |  | |
|  |  | *53* |  | | | | *SAC 305 Multicore Solders* | | | | |  | *Припой* | |
|  |  |  |  | | | |  | | | | |  |  | |
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|  | |  | |  |  | *ГУИР.687243.019* | | | | | | | | *Лист* |
|  | |  | |  |  | *4* |
|  | |  | |  |  |