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| ***Формат*** | ***Зона*** | ***Поз.*** | | ***Обозначение*** | | | | ***Наименование*** | | | | | ***кол.*** | ***Примеч.*** | |
|  |  |  | |  | | | |  | | | | |  |  | |
|  |  |  | |  | | | | *Документация* | | | | |  |  | |
|  |  |  | |  | | | |  | | | | |  |  | |
| *А1* |  |  | | *ГУИР.403232.001 СБ* | | | | *Сборочный чертеж* | | | | | *1* |  | |
| *А1* |  |  | | *ГУИР.403232.001 ЭЗ* | | | | *Схема электрическая* | | | | | *1* |  | |
|  |  |  | |  | | | | *принципиальная* | | | | |  |  | |
| *А4* |  |  | | *ГУИР.403232.001 ПЭЗ* | | | | *Перечень элементов* | | | | | *3* |  | |
| *БЧ* |  |  | | *ГУИР.403232.001 Д1* | | | | *Технологическая схема сборки* | | | | | *1* |  | |
|  |  |  | |  | | | |  | | | | |  |  | |
|  |  |  | |  | | | | *Детали* | | | | |  |  | |
| *A1* |  | *1* | | *ГУИР.758744.001* | | | | *Плата печатная* | | | | | *1* |  | |
|  |  |  | |  | | | |  | | | | |  |  | |
|  |  |  | |  | | | | *Прочие изделия* | | | | |  |  | |
|  |  |  | |  | | | |  | | | | |  |  | |
|  |  | *2* | |  | | | | *Буззер CD-1206-SMT(CUI Devices)* | | | | | *1* | *HA1* | |
|  |  |  | |  | | | |  | | | | |  |  | |
|  |  |  | |  | | | | *Выключатель кнопочный* | | | | | *5* | *SB1…SB5* | |
|  |  | *3* | |  | | | | *TL3301DF160QG* | | | | |  |  | |
|  |  |  | |  | | | | *(*E SWITCH) | | | | |  |  | |
|  |  |  | |  | | | |  | | | | |  |  | |
|  |  |  | |  | | | | *Датчик температуры DS18B20U+* | | | | | *2* | *BK1,BK2* | |
|  |  | *4* | |  | | | | *(Maxim integrated)* | | | | |  |  | |
|  |  |  | |  | | | |  | | | | |  |  | |
|  |  | *5* | |  | | | | *Диодный мост MSB10M-13* | | | | | *1* | *UZ1* | |
|  |  |  | |  | | | | *(Diodes Incorporated)* | | | | |  |  | |
|  |  | *6* | |  | | | |  | | | | |  |  | |
|  |  |  | |  | | | | *ИК-приемник TSOP1736(VISHAY)* | | | | | *1* | *BL1* | |
|  |  |  | |  | | | |  | | | | |  |  | |
|  |  | |  | |  |  | ГУИР.403232.001 | | | | | | | | |  |
|  |  | |  | |  |  |  |
| *Изм* | *Лист* | | *№ докум* | | *Подп.* | *Дата* |  |
| *Разраб.* | | |  | |  |  | *Плата* | | *Лит* | | | *Лист* | | *Листов* | |
| *Пров.* | | | Смирнова | |  |  |  |  |  | *1* | | *4* | |
| *Т.контр.* | | |  | |  |  | БГУИР гр. | | | | | | |
| *Н. Контр* | | |  | |  |  |
| *Утв.* | | |  | |  |  |
| ***Формат*** | ***Зона*** | ***Поз.*** | | ***Обозначение*** | | | | ***Наименование*** | | | | | ***кол.*** | ***Примеч.*** | |
|  |  |  | |  | | | |  | | | | |  |  | |
|  |  |  | |  | | | | *Кварцевые резонаторы* | | | | |  |  | |
|  |  |  | |  | | | |  | | | | |  |  | |
|  |  | *7* | |  | | | | *ECS-160-20-5PX-TR(Jauch Quartz)* | | | | | *1* | *ZQ1* | |
|  |  |  | |  | | | | *9HT10-32.768KBZF-T* | | | | | *1* | *ZQ2* | |
|  |  | *8* | |  | | | | *(TXC CORPORATION)* | | | | |  |  | |
|  |  |  | |  | | | |  | | | | |  |  | |
|  |  |  | |  | | | | *Конденсаторы* | | | | |  |  | |
|  |  |  | |  | | | |  | | | | |  |  | |
|  |  |  | |  | | | | *GRM155R71A104JA01D* | | | | | *1* | *C1* | |
|  |  | *9* | |  | | | | *(Murata Electronics)* | | | | |  |  | |
|  |  | *10* | |  | | | | *GRM1555C1E220JA01D* | | | | | *2* | *С2,C3* | |
|  |  |  | |  | | | | *(Murata Electronics)* | | | | |  |  | |
|  |  | *11* | |  | | | | *T529P106M010AAE200* | | | | | *1* | *C4* | |
|  |  | *12* | |  | | | | *(KEMET)* | | | | |  |  | |
|  |  | *113* | |  | | | | *GRM155R71A104JA01D* | | | | | *1* | *C5* | |
|  |  |  | |  | | | | *(Murata Electronics)* | | | | |  |  | |
|  |  | *14* | |  | | | |  | | | | |  |  | |
|  |  |  | |  | | | | *Микросхемы* | | | | |  |  | |
|  |  |  | |  | | | |  | | | | |  |  | |
|  |  |  | |  | | | | *ULN2003А(STMicroelectronics)* | | | | | *1* | *DA1* | |
|  |  | *15* | |  | | | | *LM7805MPX/NOPB* | | | | | *1* | *DA2* | |
|  |  |  | |  | | | | *(Texas Instruments)* | | | | |  |  | |
|  |  | *16* | |  | | | | *AT24C64BN-10SU-2.7* | | | | | *1* | *DD1* | |
|  |  |  | |  | | | | *(Microchip Technology)* | | | | |  |  | |
|  |  |  | |  | | | | *ATMEGA16A-AU(Atmel)* | | | | | *1* | *DD2* | |
|  |  |  | |  | | | | *CD74HC595DWR* | | | | | *4* | *DD3…DD6* | |
|  |  | *17* | |  | | | | *(Texas Instruments)* | | | | |  |  | |
|  |  | *18* | |  | | | |  | | | | |  |  | |
|  |  |  | |  | | | | *Переключатель CS12ANW03* | | | | | *5* | *SA1* | |
|  |  |  | |  | | | | *(NKIK SWITCHES)* | | | | |  |  | |
|  | | |  | |  |  | ГУИР.403232.001 | | | | | | | | *Лист* |
|  | | |  | |  |  | *2* |
| *Изм* | | | *Лист* | | *№ докум* | *Подп.* |
| ***Формат*** | ***Зона*** | ***Поз.*** | | ***Обозначение*** | | | | ***Наименование*** | | | | | ***кол.*** | ***Примеч.*** | |
|  |  |  | |  | | | |  | | | | |  |  | |
|  |  |  | |  | | | | *Разъёмные соединения* | | | | |  |  | |
|  |  |  | |  | | | |  | | | | |  |  | |
|  |  | *19* | |  | | | | *3-1734035-2* | | | | | *1* | *XS1* | |
|  |  | *20* | |  | | | | *(TE Connectivity AMP Connectors)* | | | | |  |  | |
|  |  |  | |  | | | | *PJ-002BH-SMT-TR(CUI Devices)* | | | | | *1* | *XS2* | |
|  |  | *21* | |  | | | | *4-794677-2* | | | | | *1* | *XS3* | |
|  |  | *22* | |  | | | | *(TE Connectivity AMP Connectors)* | | | | |  |  | |
|  |  | *23* | |  | | | |  | | | | |  |  | |
|  |  | *24* | |  | | | | *Резисторы* | | | | |  |  | |
|  |  | *25* | |  | | | |  | | | | |  |  | |
|  |  | *26* | |  | | | | *3314J-1-472E(Bourns Inc.)* | | | | | *1* | *R1* | |
|  |  | *27* | |  | | | | *MCS04020D2000DE000* | | | | | *1* | *R2* | |
|  |  |  | |  | | | | *(Vishay Beyschlag)* | | | | |  |  | |
|  |  | *28* | |  | | | | *RC0402FR-0710KL(Yageo)* | | | | | *1* | *R3* | |
|  |  | *29* | |  | | | | *3224W-1-102E(Bourns Inc.)* | | | | | *1* | *R4* | |
|  |  |  | |  | | | | *RC0402FR-0710KL(Yageo)* | | | | | *1* | *R5* | |
|  |  | *30* | |  | | | | *RC0402FR-072K2L(Yageo)* | | | | | *1* | *R6* | |
|  |  | *31* | |  | | | | *RR0510P-152-D(Susumu)* | | | | | *1* | *R7* | |
|  |  |  | |  | | | | *RC0402FR-0768RL(Yageo)* | | | | | *1* | *R8* | |
|  |  | *32* | |  | | | | *MCS04020D2000DE000* | | | | | *2* | *R9,R10* | |
|  |  | *33* | |  | | | | *(Vishay Beyschlag)* | | | | |  |  | |
|  |  |  | |  | | | | *RC0402FR-0768RL(Yageo)* | | | | | *1* | *R11* | |
|  |  | *34* | |  | | | | *MCS04020D2000DE000* | | | | | *1* | *R12* | |
|  |  | *35* | |  | | | | *(Vishay Beyschlag)* | | | | |  |  | |
|  |  |  | |  | | | | *RC0402FR-072K2L(Yageo)* | | | | | *1* | *R13* | |
|  |  |  | |  | | | | *MCS04020D2000DE000* | | | | | *1* | *R14* | |
|  |  | *36* | |  | | | | *(Vishay Beyschlag)* | | | | |  |  | |
|  |  |  | |  | | | | *RC0402JR-078K2L(Yageo)* | | | | | *2* | *R15,R16* | |
|  |  | *37* | |  | | | | *MCS04020D2000DE000* | | | | | *3* | *R17…R19* | |
|  |  |  | |  | | | | *(Vishay Beyschlag)* | | | | |  |  | |
|  | | |  | |  |  | ГУИР.403232.001 | | | | | | | | *Лист* |
|  | | |  | |  |  | *3* |
| *Изм* | | | *Лист* | | *№ докум* | *Подп.* |
| ***Формат*** | ***Зона*** | ***Поз.*** | | ***Обозначение*** | | | | ***Наименование*** | | | | | ***кол.*** | ***Примеч.*** | |
|  |  |  | |  | | | |  | | | | |  |  | |
|  |  | *38* | |  | | | | *Резисторы* | | | | |  |  | |
|  |  |  | |  | | | |  | | | | |  |  | |
|  |  | *39* | |  | | | | *RC0402FR-0710KL(Yageo)* | | | | | *1* | *R20* | |
|  |  |  | |  | | | | *MCS04020D2000DE000* | | | | | *8* | *R21…R28* | |
|  |  |  | |  | | | | *(Vishay Beyschlag)* | | | | |  |  | |
|  |  |  | |  | | | |  | | | | |  |  | |
|  |  |  | |  | | | | *Светодиоды* | | | | |  |  | |
|  |  | *40* | |  | | | |  | | | | |  |  | |
|  |  | *41* | |  | | | | *TSHA6500 (VISHAY)* | | | | | *1* | *HL1* | |
|  |  |  | |  | | | | *C503B-RAN-CZ0C0AA1* | | | | | *9* | *HL2…* | |
|  |  |  | |  | | | | (CREE INC.) | | | | |  | *HL10* | |
|  |  |  | |  | | | |  | | | | |  |  | |
|  |  | *42* | |  | | | | *Сегментные индикаторы* | | | | | *2* | *HG1,HG2* | |
|  |  |  | |  | | | | *KW4-563ASA(LUCKY LIGHT)* | | | | |  |  | |
|  |  | *43* | |  | | | |  | | | | |  |  | |
|  |  | *44* | |  | | | | *Стабилитрон EDZVT2R3.6B* | | | | | *2* | *VD1,VD2* | |
|  |  |  | |  | | | | *(Rohm Semiconductor)* | | | | |  |  | |
|  |  |  | |  | | | |  | | | | |  |  | |
|  |  |  | |  | | | | *Транзисторы* | | | | |  |  | |
|  |  |  | |  | | | |  | | | | |  |  | |
|  |  | *45* | |  | | | | *BC547(ON Semiconductor)* | | | | | *2* | *VT1,VT2* | |
|  |  | *46* | |  | | | | *IRF6648(Infineon Technologies)* | | | | | *1* | *VT3* | |
|  |  |  | |  | | | |  | | | | |  |  | |
|  |  |  | |  | | | | *Материалы* | | | | |  |  | |
|  |  |  | |  | | | |  | | | | |  |  | |
|  |  |  | |  | | | | *Краска МКЭ,белая ОСТ92-2.0-ПР3* | | | | | *0,02* |  | |
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|  | | |  | |  |  | ГУИР.403232.001 | | | | | | | | *Лист* |
|  | | |  | |  |  | *4* |
| *Изм* | | | *Лист* | | *№ докум* | *Подп.* |