| Nº | Наименование                              | Корпус   | Кол. | Поз.                      | Примечание |
|----|---|----------|------|---------------------------|------------|
|    |   |          |      |                           |            |
|    |   |          |      |                           |            |
| 1  | Сборочный чертеж                          |          |      |                           |            |
|    | АВАНТ БВП v4.3 rev.1                      |          | 1    |                           |            |
|    |   |          |      |                           |            |
|    |   |          |      |                           |            |
|    | ДЕТАЛИ                                    |          |      |                           |            |
|    |   |          |      |                           |            |
| 3  | Плата печатная                            |          |      |                           |            |
|    | BVP_04v4                                  |          | 1    |                           |            |
|    |   |          |      |                           |            |
|    |   |          |      |                           |            |
|    |   |          |      |                           |            |
|    | ПРОЧИЕ ИЗДЕЛИЯ                            |          |      |                           |            |
|    |   |          |      |                           |            |
|    |   |          |      |                           |            |
|    |   |          |      |                           |            |
| 5  | Диод ВАТ54А                               | SOT-23_3 | 1    | VD18                      |            |
|    |   |          |      |                           |            |
|    |   |          |      |                           |            |
| 13 | Дроссель LQH43CN100K03L                   |          |      |                           |            |
|    | 10mkΓh 650mA MURATA                       | 1812     | 2    | L2,L3                     |            |
|    |   |          |      |                           |            |
|    | V - 1 - 2 - 1 - 2 - 1 - 1 - 1 - 1 - 1 - 1 |          |      |                           |            |
|    | <u>Конденсаторы</u>                       |          |      |                           |            |
| 19 | 0805 X7R 50B 0.1ΜκΦ ±10%                  | 0805     | 10   | C3,C6,C29-C31,C33-C36,C38 |            |
| 17 | 0003 X7N 30B 0.17NV 110%                  | 0003     | 10   | 25,00,025 051,055 050,050 |            |
| 23 | 0805 X7R 10B 10ΜκΦ ±10%                   | 0805     | 2    | C28,C32                   |            |
|    |   |          |      |                           |            |
|    |   |          |      |                           |            |
|    | <u> Микросхемы</u>                        |          |      |                           |            |
|    |   |          |      |                           |            |
| 29 | ADuM3402ARWZ AD                           | SOIC_16  | 1    | DD4                       |            |
|    |   |          |      |                           |            |
| 31 | SN74ACT573DW(R) TI                        |          |      |                           |            |
|    | (74ACT573SC FAIRCHILD,                    |          |      |                           |            |
|    | M74HCT573M1R(RM13TR) ST)                  | SOIC_20  | 2    | DD1,DD2                   |            |
|    |   |          |      |                           |            |
| 33 | SN74LVC1G14DBV(R, T) TI                   | 607.55   | -    |                           |            |
|    | (74LVC1G14GV PANASONIC, NXP)              | SOT-23_5 | 1    | DD5                       |            |
|    |   |          |      |                           |            |
| 1  |   |          |      |                           |            |

| <b>О</b><br>Изм | Лист           | № докум.       | Подп.        | Дата              | АВАНТ БВП v4.4 СП     |        |      |         |
|-----------------|----------------|----------------|--------------|-------------------|-----------------------|--------|------|---------|
| Разр            | аб.            | Щеблыкин М.В   |              | 04-08-14          |                       | Лит.   | Лист | Листов  |
| Проє            | вер.           | Вершинин А.С.  |              |                   | Плата БВП 04v4        |        | 1    | 10      |
|                 |                |                |              |                   | i ijiaiiia DDI I U4V4 |        | 000  |         |
| Н.ко            | нтр.           | Назаренко А.Н. |              |                   |                       | "Πnoco |      | MOME IN |
| Утв             | ч. Чирков А.Г. |                | Спецификация | «Прософт-Системы» |                       |        |      |         |

| 41 | Преобразователь напряжения   |          |   |                 |               |
|----|------------------------------|----------|---|-----------------|---------------|
|    | TMA 0505S 1Bm +5B TRACO      | SIP7_4   | 1 | DA6             |               |
|    |                              |          |   |                 |               |
|    |                              |          |   |                 |               |
| 45 | Onmpoн HCPL-817-300E AVAGO   | SMD_4    | 3 | AV1,AV5,AV6     |               |
|    |                              | _        |   |                 |               |
|    |                              |          |   |                 |               |
|    | <u>Разъемы</u>               |          |   |                 |               |
|    |                              |          |   |                 |               |
| 49 | DIN41612 09031966921 HARTING |          |   |                 |               |
|    | (DIN 41612 3*32 96 MR)       | 96 pins  | 2 | X1,X2           | вилка угловая |
|    |                              |          |   |                 |               |
| 51 | PLS-2                        | PLS_2    | 2 | X3,X4           |               |
|    |                              |          |   |                 |               |
|    |                              |          |   |                 |               |
|    | <u>Резисторы</u>             |          |   |                 |               |
|    |                              |          |   |                 |               |
| 55 | 0805 510m ±5%                | 0805     | 4 | R38,R39,R45,R46 |               |
|    |                              |          |   |                 |               |
| 61 | 0805 1кОм ±5%                | 0805     | 1 | R41             |               |
|    |                              |          |   |                 |               |
| 63 | 0805 2κOm ±5%                | 0805     | 3 | R13,R17,R18     |               |
|    |                              |          |   |                 |               |
| 67 | 0805 10кОм ±5%               | 0805     | 5 | R49-R53         |               |
|    |                              |          |   |                 |               |
| 73 | сборка 1206х4 100 ±5%        | 1206     | 5 | RR1,RR2,RR6-RR8 | convex        |
|    |                              |          |   |                 |               |
| 75 | сборка 1206х4 10кОм ±5%      | 1206     | 3 | RR3-RR5         | convex        |
|    |                              |          |   |                 |               |
|    |                              |          |   |                 |               |
|    | <u>Супрессоры</u>            |          |   |                 |               |
|    |                              |          |   |                 |               |
| 79 | SM6T6V8CA 6.8В двунаправен.  | DO-214AA | 1 | VD1             |               |
|    |                              |          |   |                 |               |
| 81 | SM6T30CA 30B двунаправленный | DO-214AA | 1 | VD2             |               |
|    |                              |          |   |                 |               |
|    |                              |          |   |                 |               |
|    |                              |          |   |                 |               |
|    |                              |          |   |                 |               |
|    |                              |          |   |                 |               |
|    |                              |          |   |                 |               |
|    |                              |          |   |                 |               |
|    |                              |          |   |                 |               |
|    |                              |          |   |                 |               |
|    |                              |          |   |                 |               |
|    |                              |          |   |                 |               |
|    |                              |          |   |                 |               |
|    |                              |          |   |                 |               |
|    |                              |          |   |                 |               |

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|    | Попомочнико данико дая               |         |   |             |         |
|    | Переменные данные для<br>исполнений: |         |   |             |         |
|    | исполнении:                          |         |   |             |         |
|    | DADWAUT WAGO                         |         |   |             |         |
|    | ВАРИАНТ К400                         |         |   |             |         |
|    |                                      |         |   |             |         |
|    | g 3                                  |         |   |             |         |
|    | <u>Диоды</u>                         |         |   |             |         |
|    | 60 2 2 WD 2012566                    |         |   |             |         |
| 6  | CBemoduod KP-2012SGC                 | 2005    | _ | L/D40 L/D20 |         |
|    | зеленый KINGBRIGHT                   | 0805    | 2 | VD19, VD20  |         |
|    |                                      |         |   |             |         |
| 7  | Светодиод FYL-5013PURD1C             |         | _ |             |         |
|    | красный FORYARD                      | 2 pins  | 2 | VD15, VD16  |         |
|    |                                      |         |   |             |         |
| 9  | Светодиод L-53SGD зеленый            |         |   |             |         |
|    | KINGBRIGHT                           | 2 pins  | 1 | VD14        |         |
|    |                                      |         |   |             |         |
|    |                                      |         |   |             |         |
| 15 | Кварцевый резонатор КХ-К 20МГц       |         |   |             |         |
|    | планарный -20°/+70°C GEYER           | SMD_2   | 1 | ZQ1         |         |
|    |                                      |         |   |             |         |
|    |                                      |         |   |             |         |
|    | <u>Конденсаторы</u>                  |         |   |             |         |
|    |                                      |         |   |             |         |
| 16 | 0805 NP0 50B 22nΦ ±5%                | 0805    | 2 | C39,C40     |         |
|    |                                      |         |   |             |         |
| 19 | 0805 X7R 50B 0.1mκΦ ±10%             | 0805    | 8 | C41-C48     |         |
|    |                                      |         |   |             |         |
| 23 | 0805 X7R 10B 10ΜκΦ ±10%              | 0805    | 1 | C49         |         |
|    |                                      |         |   |             |         |
|    |                                      |         |   |             |         |
|    | <u> Микросхемы</u>                   |         |   |             |         |
|    |                                      |         |   |             |         |
| 29 | ADuM3402ARWZ AD                      | SOIC_16 | 1 | DD7         |         |
|    | 7.26.13.702.11112                    | 3010_10 | _ |             |         |
| 30 | ATmega164P-20AU ATMEL                | TQFP_44 | 1 | DD6         |         |
|    | 7 <b>2</b> 90_00,10                  | . 6     | _ |             |         |
|    |                                      |         |   |             |         |
| 45 | Onmpoн HCPL-817-300E AVAGO           | SMD_4   | 4 | AV2-AV4,AV7 |         |
| 73 | onimpon here of soci Avado           | 3/10_4  | 7 | AVZ AVTJAV  |         |
|    |                                      |         |   |             |         |
| 48 | Разъем-вилка на плату IDC-10M        | IDC_10  | 1 | X6          | 2.54mm  |
| 70 | Tubber burka na mainy 100-100        | 100_10  |   |             | 2.37701 |
|    |                                      |         |   |             |         |
|    | Populamoni                           |         |   |             |         |
|    | <u>Резисторы</u>                     |         |   |             |         |
| Fo | 0905 004                             | 0005    | 2 | P67 P60     |         |
| 53 | 0805 00M                             | 0805    | 2 | R67,R69     |         |
|    |                                      |         |   |             |         |
|    |                                      | ı — —   |   |             |         |

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|    | T                                     | T        |    | T                                | 1      |
|----|---------------------------------------|----------|----|----------------------------------|--------|
|    |                                       |          |    |                                  |        |
| 55 | 0805 510m ±5%                         | 0805     | 2  | R40,R47                          |        |
|    |                                       |          |    |                                  |        |
| 59 | 0805 5100m ±5%                        | 0805     | 6  | R9,R11,R12,R42-R44               |        |
|    |                                       |          |    |                                  |        |
| 61 | 0805 1кОм ±5%                         | 0805     | 3  | R6,R60,R61                       |        |
|    |                                       |          |    | ,                                |        |
| 63 | 0805 2κOm ±5%                         | 0005     | 1  | R14 R16 R10                      |        |
| 63 | 0805 ZRUM ±5%                         | 0805     | 4  | R14-R16,R19                      |        |
|    |                                       |          |    |                                  |        |
| 65 | 0805 5.1кОм ±5%                       | 0805     | 2  | R7,R8                            |        |
|    |                                       |          |    |                                  |        |
| 67 | 0805 10кОм ±5%                        | 0805     | 5  | R62-R66                          |        |
|    |                                       |          |    |                                  |        |
| 73 | сборка 1206х4 100 ±5%                 | 1206     | 1  | RR9                              | convex |
|    |                                       |          |    |                                  |        |
|    |                                       |          |    |                                  |        |
|    |                                       |          |    |                                  |        |
|    |                                       |          |    |                                  |        |
|    |                                       |          |    |                                  |        |
|    |                                       |          |    |                                  |        |
|    |                                       |          |    |                                  |        |
|    | ВАРИАНТ Р400                          |          |    |                                  |        |
|    |                                       |          |    |                                  |        |
|    |                                       |          |    |                                  |        |
|    | <u>Диоды</u>                          |          |    |                                  |        |
|    | диоон                                 |          |    |                                  |        |
|    |                                       |          |    |                                  |        |
| 5  | BAT54A                                | SOT-23_3 | 1  | VD5                              |        |
|    |                                       |          |    |                                  |        |
| 7  | Светодиод FYL-5013PURD1C              |          |    |                                  |        |
|    | красный FORYARD                       | 2 pins   | 3  | VD11,VD12,VD16                   |        |
|    |                                       |          |    |                                  |        |
| 9  | Светодиод L-53SGD зеленый             |          |    |                                  |        |
|    | KINGBRIGHT                            | 2 pins   | 1  | VD10                             |        |
|    | KINGBRIGHT                            | 2 ptils  |    | VD10                             |        |
|    |                                       |          |    |                                  |        |
|    |                                       |          |    |                                  |        |
| 13 | Дроссель LQH43CN100K03L 10мкГн        |          |    |                                  |        |
|    | 650MA MURATA                          | 1812     | 1  | L1                               |        |
| L  |                                       |          |    |                                  |        |
|    |                                       |          |    |                                  |        |
|    | Конденсаторы                          |          |    |                                  |        |
|    |                                       |          |    |                                  |        |
| 17 | 0805 X7R 50B 1000nΦ ±10%              | 0805     | 2  | C8,C21                           |        |
| 1/ | 7005 X/N 500 1000HW 110%              | 0003     |    |                                  |        |
|    |                                       |          |    |                                  |        |
| 19 | 0805 X7R 50B 0.1mκΦ ±10%              | 0805     | 15 | C2,C4,C5,C7,C10-C13,C15,C16,C18, |        |
|    |                                       |          |    | C20, C22,C23,C37                 |        |
| L  |                                       |          |    |                                  |        |
| 21 | 0805 X7R 50B 2.2ΜΚΦ ±10%              | 0805     | 1  | C24                              |        |
|    |                                       |          |    |                                  |        |
| 23 | 0805 X7R 10B 10ΜΚΦ ±10%               | 0805     | 8  | C1,C9,C14,C17,C19,C25-C27        |        |
|    | 3333 A/A 133 10/A(\$\frac{1}{2}\$10%) | 3003     |    |                                  |        |
|    |                                       |          |    |                                  |        |
|    |                                       |          |    |                                  |        |

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|           | Микросхемы                      |          |    |                         |   |
|-----------|---------------------------------|----------|----|-------------------------|---|
|           |                                 |          |    |                         |   |
| 27        | AD8532ARZ AD                    | SOIC_8   | 2  | DA2,DA5                 |   |
|           |                                 |          |    |                         |   |
|           |                                 |          |    |                         |   |
| 33        | SN74LVC1G14DBV(R, T) TI         |          |    |                         |   |
|           | (74LVC1G14GV PANASONIC, NXP)    | SOT-23_5 | 1  | DD3                     |   |
|           |                                 |          |    |                         |   |
| 35        | SSM2167-1RMZ-R7(-REEL) AD       | SOIC_10  | 1  | DA4                     |   |
|           |                                 |          |    |                         |   |
| 37        | SSM2301RMZ-R2(-REEL, -REEL7) AD | SOIC_8   | 1  | DA3                     |   |
|           |                                 |          |    |                         |   |
| 39        | TS5A3160DBV TI                  | SOT-23_6 | 1  | DA1                     |   |
|           |                                 |          |    |                         |   |
|           |                                 |          |    |                         |   |
| 45        | Onmpoн HCPL-817-300E AVAGO      | SMD_4    | 1  | AV2                     |   |
|           |                                 |          |    |                         |   |
|           |                                 | 21.5.0   |    |                         |   |
| 51        | Разъем PLS-2                    | PLS_2    | 1  | X5                      |   |
|           |                                 |          |    |                         |   |
|           | 0                               |          |    |                         |   |
|           | <u>Резисторы</u>                |          |    |                         |   |
| 53        | 0805 00M                        | 0805     | 2  | DC0 D70                 |   |
| 33        | 0805 00M                        | 0803     |    | R68,R70                 |   |
| <i>57</i> | 0805 1000m ±5%                  | 0805     | 5  | R20,R21,R23,R24,R32     |   |
| - 57      | 0803 1000/ 13/8                 | 0805     |    | N20, N21, N23, N24, N32 |   |
| 59        | 0805 5100m ±5%                  | 0805     | 2  | R9, R42                 |   |
|           | 0003 3100/4 23/8                | 0003     |    | NJ, N42                 |   |
| 61        | 0805 1KOM ±5%                   | 0805     | 3  | R25,R26,R54             |   |
|           |                                 | 0002     |    |                         |   |
| 63        | 0805 2кОм ±5%                   | 0805     | 1  | R14                     |   |
|           |                                 |          |    |                         |   |
| 65        | 0805 5.1kOm ±5%                 | 0805     | 4  | R33,R55,R56,R58         |   |
|           |                                 |          |    |                         |   |
| 67        | 0805 10кОм ±5%                  | 0805     | 4  | R27,R30,R36,R48         |   |
|           |                                 |          |    |                         |   |
| 69        | 0805 20кОм ±5%                  | 0805     | 4  | R31,R34,R35,R37         |   |
|           |                                 |          |    |                         |   |
| 71        | 0805 100kOm ±5%                 | 0805     | 3  | R22,R28,R29             |   |
|           |                                 |          |    |                         |   |
|           |                                 |          |    |                         |   |
| 85        | Провод МГТФ 0,5                 |          | 1м |                         |   |
|           |                                 |          |    |                         |   |
|           |                                 |          |    |                         |   |
|           |                                 |          |    |                         |   |
|           |                                 |          |    |                         |   |
|           |                                 |          |    |                         |   |
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|          | ВАРИАНТ Р400М                          |          |          |                              |   |
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|          |  |          |          |                              |   |
|          |  |          |          |                              |   |
|          | <u>Диоды</u>                           |          |          |                              |   |
|          |  |          |          |                              |   |
| 5        | BAT54A                                 | SOT-23_3 | 4        | VD3-VD6                      |   |
|          |  |          |          |                              |   |
| 7        | Светодиод FYL-5013PURD1C               |          |          |                              |   |
|          | красный FORYARD                        | 2 pins   | 7        | VD10-VD16                    |   |
|          |  |          |          |                              |   |
| 9        | Светодиод L-53SGD зеленый              |          |          |                              |   |
|          | KINGBRIGHT                             | 2 pins   | 1        | VD17                         |   |
|          |  |          |          |                              |   |
|          |  |          |          |                              |   |
| 13       | Дроссель LQH43CN100K03L 10мкГн         |          |          |                              |   |
|          | 650MA MURATA                           | 1812     | 1        | L1                           |   |
|          |  |          |          |                              |   |
|          |  |          |          |                              |   |
|          | <u>Конденсаторы</u>                    |          |          |                              |   |
|          |  |          |          |                              |   |
| 17       | 0805 X7R 50B 1000nΦ ±10%               | 0805     | 2        | C8,C21                       |   |
|          |  |          |          |                              |   |
| 19       | 0805 X7R 50B 0.1mκΦ ±10%               | 0805     | 15       | C2,C4,C5,C7,C10-C13,C15,C16, |   |
|          |  |          |          | C18,C20,C22,C23,C37          |   |
|          |  |          |          |                              |   |
| 21       | 0805 X7R 50B 2.2mκΦ ±10%               | 0805     | 1        | C24                          |   |
|          |  |          | _        |                              |   |
| 23       | 0805 X7R 10B 10ΜκΦ ±10%                | 0805     | 8        | C1,C9,C14,C17,C19,C25-C27    |   |
|          |  |          |          |                              |   |
|          | Marine                                 |          |          |                              |   |
|          | <u>Микросхемы</u>                      |          |          |                              |   |
| 27       | AD8532ARZ AD                           | SOIC_8   | 2        | DA2,DA5                      |   |
| 27       | ADOSSEANZ AD                           | 3010_8   |          | UAZ, UAJ                     |   |
| 33       | SN74LVC1G14DBV(R, T) TI                |          |          |                              |   |
|          | (74LVC1G14GV PANASONIC, NXP)           | SOT-23_5 | 1        | DD3                          |   |
|          | ()                                     | 30. 23_3 |          | <del></del>                  |   |
| 35       | SSM2167-1RMZ-R7(-REEL) AD              | SOIC_10  | 1        | DA4                          |   |
| <u> </u> |  |          |          |                              |   |
| 37       | <br>  SSM2301RMZ-R2(-REEL,-REEL7)   AD | SOIC_8   | 1        | DA3                          |   |
|          | , ,, ,                                 |          |          |                              |   |
| 39       | TS5A3160DBV TI                         | SOT-23_6 | 1        | DA1                          |   |
|          |  | _        |          |                              |   |
|          |  |          |          |                              |   |
| 51       | Разъем PLS-2                           | PLS_2    | 1        | X5                           |   |
|          |  |          |          |                              |   |
|          |  |          |          |                              |   |
|          |  |          |          |                              |   |
| <u> </u> | •                                      |          | <u> </u> | •                            | 1 |

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|     | Резисторы                      |           |    |                     |  |
|-----|--------------------------------|-----------|----|---------------------|--|
|     | <u>гезисшоры</u>               |           |    |                     |  |
| F 2 | 0805 00M                       | 0005      | 2  | D60 D70             |  |
| 53  | 0805 00M                       | 0805      | 2  | R68,R70             |  |
|     | 0005 1000: 15%                 | 0005      | _  | D20 D21 D22 D24 D22 |  |
| 57  | 0805 100Ом ±5%                 | 0805      | 5  | R20,R21,R23,R24,R32 |  |
|     |                                |           | _  |                     |  |
| 61  | 0805 1кОм ±5%                  | 0805      | 3  | R1,R25,R26          |  |
|     |                                |           |    |                     |  |
| 65  | 0805 5.1кОм ±5%                | 0805      | 8  | R2-R8,R33           |  |
|     |                                |           |    |                     |  |
| 67  | 0805 10κOm ±5%                 | 0805      | 4  | R27,R30,R36,R48     |  |
|     |                                |           |    |                     |  |
| 69  | 0805 20кОм ±5%                 | 0805      | 4  | R31,R34,R35,R37     |  |
|     |                                |           |    |                     |  |
| 71  | 0805 100кОм ±5%                | 0805      | 3  | R22,R28,R29         |  |
|     |                                |           |    |                     |  |
|     |                                |           |    |                     |  |
| 85  | Провод МГТФ 0,5                |           | 1м |                     |  |
|     |                                |           |    |                     |  |
|     |                                |           |    |                     |  |
|     |                                |           |    |                     |  |
|     | ВАРИАНТ РЗСК                   |           |    |                     |  |
|     |                                |           |    |                     |  |
|     |                                |           |    |                     |  |
| 6   | Светодиод КР-2012SGC           |           |    |                     |  |
|     | зеленый KINGBRIGHT             | 0805      | 2  | VD19,VD20           |  |
|     | SENERBU KINODKIGHT             | 0003      | 2  | VD13, VD20          |  |
| 7   | Светодиод FYL-5013PURD1C       |           |    |                     |  |
| /   |                                | 2 mina    | 2  | VD15 VD16           |  |
|     | красный FORYARD                | 2 pins    | 2  | VD15, VD16          |  |
|     | 00 2 2 4 52505                 |           |    |                     |  |
| 9   | Светодиод L-53SGD зеленый      |           |    |                     |  |
|     | KINGBRIGHT                     | 2 pins    | 1  | VD14                |  |
|     |                                |           |    |                     |  |
|     |                                |           |    |                     |  |
| 13  | Дроссель LQH43CN100K03L 10мкГн |           |    |                     |  |
|     | 650MA MURATA                   | 1812      | 1  | L1                  |  |
|     |                                |           |    |                     |  |
|     |                                |           |    |                     |  |
| 15  | Кварцевый резонатор КХ-К 20МГц |           |    |                     |  |
|     | планарный -20°/+70°C GEYER     | SMD_2     | 1  | ZQ1                 |  |
|     |                                |           |    |                     |  |
|     |                                |           |    |                     |  |
|     | <u>Конденсаторы</u>            |           |    |                     |  |
|     | _                              |           |    |                     |  |
| 16  | 0805 NP0 50B 22nΦ ±5%          | 0805      | 2  | C39,C40             |  |
|     |                                |           |    |                     |  |
| 17  | 0805 X7R 50B 1000nΦ ±10%       | 0805      | 2  | C8,C21              |  |
|     |                                | , , , , , |    | , -                 |  |
|     |                                |           |    | <u> </u>            |  |

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| 19       | 0805 X7R 50B 0.1mκΦ ±10%       | 0805     | 22 | C2,C5,C7,C10-C13,C15,C16,C18,       |                 |
|----------|--------------------------------|----------|----|-------------------------------------|-----------------|
| 15       | OSOS ATA SOB C. IMAG 110%      | 0805     | 22 | C20, C22, C23, C37, C41-C48         |                 |
|          |                                |          |    | (20,022,023,037,041-040             |                 |
| 21       | 000E V7D F0D 2 2 200 410V      | 0005     | 1  | C24                                 |                 |
| 21       | 0805 X7R 50B 2.2ΜκΦ ±10%       | 0805     | 1  | C24                                 |                 |
|          | 0005 V7D 10D 10 + 110V         | 2225     | -  | C1 C2 C14 C17 C12 C27 C12           |                 |
| 23       | 0805 X7R 10B 10ΜκΦ ±10%        | 0805     | 9  | C1, C9, C14, C17, C19, C25-C27, C49 |                 |
|          |                                |          |    |                                     |                 |
|          |                                |          |    |                                     |                 |
|          | <u>Микросхемы</u>              |          |    |                                     |                 |
|          |                                |          |    |                                     |                 |
| 27       | AD8532ARZ AD                   | SOIC_8   | 2  | DA2,DA5                             |                 |
|          |                                |          |    |                                     |                 |
| 29       | ADuM3402ARWZ AD                | SOIC_16  | 1  | DD7                                 |                 |
|          |                                |          |    |                                     |                 |
|          |                                |          |    |                                     |                 |
| 30       | ATmega164P-20AU ATMEL          | TQFP_44  | 1  | DD6                                 |                 |
|          |                                |          |    |                                     |                 |
| 33       | SN74LVC1G14DBV(R, T) TI        |          |    |                                     |                 |
|          | (74LVC1G14GV PANASONIC, NXP)   | SOT-23_5 | 1  | DD3                                 |                 |
|          |                                |          |    |                                     |                 |
| 35       | SSM2167-1RMZ-R7(-REEL) AD      | S0IC_10  | 1  | DA4                                 |                 |
|          |                                |          |    |                                     |                 |
| 37       | SSM2301RMZ-R2(-REEL,-REEL7) AD | SOIC_8   | 1  | DA3                                 |                 |
|          | , , ,                          | _        |    |                                     |                 |
| 39       | TS5A3160DBV TI                 | SOT-23_6 | 1  | DA1                                 |                 |
|          |                                |          |    |                                     |                 |
|          |                                |          |    |                                     |                 |
| 45       | Onmpoн HCPL-817-300E AVAGO     | SMD_4    | 4  | AV2-AV4,AV7                         |                 |
|          |                                | 52       | •  |                                     |                 |
|          |                                |          |    |                                     |                 |
|          | Разъемы                        |          |    |                                     |                 |
|          | <u>гиз велиг</u>               |          |    |                                     |                 |
| 48       | IDC-10M                        | IDC_10   | 1  | X6                                  | 2.54 <i>m</i> m |
| 40       | 100-100                        | 100_10   | 1  | 76                                  | 2.34MM          |
| F1       | DIC 3                          | DLC 3    | 1  | VE.                                 |                 |
| 51       | PLS-2                          | PLS_2    | 1  | X5                                  |                 |
|          |                                |          |    |                                     |                 |
|          | <u>Резисторы</u>               |          |    |                                     |                 |
|          | 2005 20                        |          | _  | 257 250                             |                 |
| 53       | 0805 00м                       | 0805     | 2  | R67,R69                             |                 |
| <u> </u> |                                |          |    |                                     |                 |
| 55       | 0805 510m ±5%                  | 0805     | 2  | R40,R47                             |                 |
|          |                                |          |    |                                     |                 |
| 57       | 0805 1000m ±5%                 | 0805     | 4  | R21,R23,R24,R32                     |                 |
|          |                                |          |    |                                     |                 |
| 59       | 0805 5100m ±5%                 | 0805     | 6  | R9,R11,R12,R42-R44                  |                 |
|          |                                |          |    |                                     |                 |
| 61       | 0805 1кОм ±5%                  | 0805     | 5  | R6,R25,R26,R60,R61                  |                 |
|          |                                |          |    |                                     |                 |
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| 63 | 000E 2404 ±5%         | 0805 | 4  | D14 D16 D10             |        |
|----|-----------------------|------|----|-------------------------|--------|
| 63 | 0805 2кОм ±5%         | 0805 | 4  | R14-R16,R19             |        |
|    |                       |      |    |                         |        |
| 65 | 0805 5.1кОм ±5%       | 0805 | 3  | R7,R8,R33               |        |
|    |                       |      |    |                         |        |
| 67 | 0805 10кОм ±5%        | 0805 | 9  | R27,R30,R36,R48,R62-R66 |        |
|    |                       |      |    |                         |        |
| 69 | 0805 20кОм ±5%        | 0805 | 4  | R31,R34,R35,R37         |        |
|    |                       |      |    | , , ,                   |        |
| 71 | 0805 100ĸOm ±5%       | 0805 | 3  | P22 P20 P20             |        |
| /1 | 0805 100RUM ±5%       | 0803 | 3  | R22,R28,R29             |        |
|    |                       |      |    |                         |        |
| 73 | сборка 1206х4 100 ±5% | 1206 | 1  | RR9                     | convex |
|    |                       |      |    |                         |        |
|    |                       |      |    |                         |        |
| 85 | Провод МГТФ 0,5       |      | 1м |                         |        |
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Лист регистрции ревизий СП

| №<br>ревизии | № замененных<br>(измененных)<br>страниц | Дата<br>ревизии | Краткое содержание и причина внесения<br>изменений | Примечание |
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| 0            | вновь                                   | 04.08.14        |  |            |
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| Исполнени    | la•                                     |                 |  |            |

K400 - для K400;

P400 - для P400;

Р400м — для Р400м; РЗСК — для РЗСК.

Лист регистрции ревизий СБ

| №<br>ревизии | № замененных<br>(измененных)<br>страниц |          | Краткое содержание и причина внесения<br>изменений | Примечание |
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| 0            | вновь                                   | 04.08.14 |  |            |
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