| *Формат* | *Зона* | *Поз.* | *Поз. обозначение* | *Наименование* | *Кол.* | *Примечание* |
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|  |  |  |  | *Устройства* |  |  |
|  |  |  |  |  |  |  |
|  |  | *20* |  | *VTDU31PI004G-100,SSD4GBEUSBSLC,* |  |  |
|  |  |  |  | *VirtiumTechnologyInc* | *1* | *A1* |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | *Конденсаторы* |  |  |
|  |  |  |  |  |  |  |
|  |  | *22* |  | *C2012X5R0J476M125AC,CAPCER47UF* |  | *C107,C108,C161,* |
|  |  |  |  | *6.3VX5R0805,TDK* |  | *C185...C187,* |
|  |  |  |  |  |  | *C191...C193,* |
|  |  |  |  |  |  | *C253...C274,C279,* |
|  |  |  |  |  |  | *C307...C310,* |
|  |  |  |  |  |  | *C449...C451,C849,* |
|  |  |  |  |  | *41* | *C850* |
|  |  |  |  |  |  |  |
|  |  | *24* |  | *GRM1555C1H101JA01D,CAP,CER,* |  |  |
|  |  |  |  | *100pF,50V,C0G,0402,Murata* | *2* | *C114,C414* |
|  |  |  |  |  |  |  |
|  |  | *26* |  | *GRM1555C1H102JA01D,CAP,CER,* |  | *C44,C81...C84,* |
|  |  |  |  | *1000pF,50V,C0G,0402,Murata* |  | *C86,C119,C131,* |
|  |  |  |  |  |  | *C417,C477,C552,* |
|  |  |  |  |  |  | *C637,C669,C727,* |
|  |  |  |  |  |  | *C763,C766...C772,* |
|  |  |  |  |  | *23* | *C838* |
|  |  |  |  |  |  |  |
|  |  | *28* |  | *GRM1555C1H331JA01D,CAP,CER,* |  |  |
|  |  |  |  | *330pF,50V,C0G,0402,Murata* | *2* | *C120,C416* |
|  |  |  |  |  |  |  |
|  |  | *30* |  | *GRM1555C1H561JA01D,CAP,CER,* |  | *C137...C139,C148,* |
|  |  |  |  | *560pF,50V,C0G,0402,Murata* | *5* | *C689* |
|  |  |  |  |  |  |  |
|  |  | *32* |  | *GRM1555C1H681JA01D,CAP,CER,* |  |  |
|  |  |  |  | *680pF,50V,C0G,0402,Murata* | *1* | *C149* |
|  |  |  |  |  |  |  |
|  |  | *34* |  | *GRM1555C1H821JA01D,CAP,CER,* |  |  |
|  |  |  |  | *820pF,50V,C0G,0402,Murata* | *1* | *C167* |
|  |  |  |  |  |  |  |
|  |  | *36* |  | *GRM1555C1H8R0DA01D,CAP,CER,8pF,* |  |  |
|  |  |  |  | *50V,C0G,0402,Murata* | *2* | *C680,C681* |
|  |  |  |  |  |  |  |
|  |  | *38* |  | *GRM155R61A105K,CAP,CER,1uF,10V,* |  | *C5,C48,C65,* |
|  |  |  |  | *X5R,0402,Murata* |  | *C67...C75,* |
|  |  |  |  |  |  | *C78...C80,C115,* |
|  |  |  |  |  |  | *C117,C126,C128,* |
|  |  |  |  |  |  | *C134,C135,C171,* |
|  |  |  |  |  |  | *C203...C207,C311,* |
|  |  |  |  |  |  | *C366,C367,C379,* |
|  |  |  |  |  |  | *C423...C427,C429,* |
|  |  |  |  |  |  | *C452...C462,* |
|  |  |  |  |  |  | *C471...C473,* |
|  |  |  |  |  |  | *C522...C545,C638,* |
|  |  |  |  |  |  | *C639,C666,* |
|  |  |  |  |  |  | *C677...C679,C682,* |
|  |  |  |  |  |  | *C683,C687,C688,* |
|  |  |  |  |  |  | *C732...C737,* |
|  |  |  |  |  | *94* | *C746...C748* |
|  |  |  |  |  |  |  |
|  |  | *40* |  | *GRM155R61A474KE15J,CAP,CER,* |  | *C553...C624,C728,* |
|  |  |  |  | *0.47uF,10V,X5R,0402,Murata* | *75* | *C781,C782* |
|  |  |  |  |  |  |  |
|  |  | *42* |  | *GRM155R71C104KA88D,CAP,CER,* |  | *C3,C4,C8...C10,* |
|  |  |  |  | *0.1uF,16V,X7R,0402,Murata* |  | *C12...C37,* |
|  |  |  |  |  |  | *C39...C43,* |
|  |  |  |  |  |  | *C45...C47,* |
|  |  |  |  |  |  | *C49...C55,C66,* |
|  |  |  |  |  |  | *C88,C89,C101,* |
|  |  |  |  |  |  | *C102,C109,C110,* |
|  |  |  |  |  |  | *C113,C121,C122,* |
|  |  |  |  |  |  | *C124,C125,C129,* |
|  |  |  |  |  |  | *C130,C155,C158,* |
|  |  |  |  |  |  | *C162,C169,C170,* |
|  |  |  |  |  |  | *C182...C184,* |
|  |  |  |  |  |  | *C194...C200,* |
|  |  |  |  |  |  | *C290...C306,* |
|  |  |  |  |  |  | *C380...C400,C409,* |
|  |  |  |  |  |  | *C419...C422,C428,* |
|  |  |  |  |  |  | *C430...C448,C463,* |
|  |  |  |  |  |  | *C468...C470,* |
|  |  |  |  |  |  | *C478...C517,* |
|  |  |  |  |  |  | *C647...C651,* |
|  |  |  |  |  |  | *C653...C659,C667,* |
|  |  |  |  |  |  | *C668,C670...C676,* |
|  |  |  |  |  |  | *C684,C685,C690,* |
|  |  |  |  |  |  | *C692...C723,C726,* |
|  |  |  |  |  |  | *C729...C731,* |
|  |  |  |  |  |  | *C738...C744,C764,* |
|  |  |  |  |  |  | *C765,C773...C780,* |
|  |  |  |  |  |  | *C784...C787,* |
|  |  |  |  |  |  | *C793...C837,* |
|  |  |  |  |  | *318* | *C839...C848* |
|  |  |  |  |  |  |  |
|  |  | *44* |  | *GRM155R71E103KA01D,CAP,CER,* |  | *C59,C60,C116,* |
|  |  |  |  | *0.01uF,25V,X7R,0402,Murata* |  | *C153,C154,C176,* |
|  |  |  |  |  |  | *C233...C237,C364,* |
|  |  |  |  |  |  | *C365,C406,C474,* |
|  |  |  |  |  |  | *C664,C665,C790,* |
|  |  |  |  |  | *19* | *C791* |
|  |  |  |  |  |  |  |
|  |  | *46* |  | *GRM155R71E153KA61D,CAP,CER,* |  |  |
|  |  |  |  | *0.015uF,25V,X7R,0402,Murata* | *3* | *C118,C415,C783* |
|  |  |  |  |  |  |  |
|  |  | *48* |  | *GRM155R71H152KA01D,CAP,CER,* |  |  |
|  |  |  |  | *1500pF,50V,X7R,0402,Murata* | *1* | *C127* |
|  |  |  |  |  |  |  |
|  |  | *50* |  | *GRM188R61E225KA12D,CAPCER2.2UF* |  | *C188...C190,* |
|  |  |  |  | *25VX5R0603,Murata* |  | *C275...C278,C281,* |
|  |  |  |  |  | *9* | *C762* |
|  |  |  |  |  |  |  |
|  |  | *52* |  | *GRM188R61E475KE11D,CAPCER4.7UF* |  | *C38,C87,* |
|  |  |  |  | *25VX7R0603,Murata* |  | *C90...C97,C111,* |
|  |  |  |  |  |  | *C112,C123,C132,* |
|  |  |  |  |  |  | *C133,C142,C143,* |
|  |  |  |  |  |  | *C168,C172,* |
|  |  |  |  |  |  | *C208...C212,C280,* |
|  |  |  |  |  |  | *C401,C402,C405,* |
|  |  |  |  |  |  | *C412,C413,* |
|  |  |  |  |  |  | *C464...C467,C640,* |
|  |  |  |  |  | *37* | *C652,C691* |
|  |  |  |  |  |  |  |
|  |  | *54* |  | *GRM188R71E104KA02D,CAPCER0.1UF* |  | *C98...C100,* |
|  |  |  |  | *25VX7R0603,Murata* |  | *C103...C105,C144,* |
|  |  |  |  |  |  | *C145,C173,* |
|  |  |  |  |  |  | *C213...C217,C410,* |
|  |  |  |  |  | *16* | *C411* |
|  |  |  |  |  |  |  |
|  |  | *56* |  | *GRM188R71E224KA88D,CAPCER0.22UF* |  | *C140,C141,C146,* |
|  |  |  |  | *25VX7R0603,Murata* |  | *C147,C151,C152,* |
|  |  |  |  |  |  | *C174,C175,* |
|  |  |  |  |  | *18* | *C223...C232* |
|  |  |  |  |  |  |  |
|  |  | *58* |  | *GRM21BR61A106KE19L,CAPCER10UF* |  | *C56,C76,C77,C85,* |
|  |  |  |  | *10VX5R0805,Murata* |  | *C377,C378,C403,* |
|  |  |  |  |  |  | *C404,C418,C475,* |
|  |  |  |  |  | *13* | *C476,C641,C660* |
|  |  |  |  |  |  |  |
|  |  | *60* |  | *GRM21BR71A475KA73K,CAPCER4.7UF* |  |  |
|  |  |  |  | *10VX7R0805,Murata* | *23* | *C341...C363* |
|  |  |  |  |  |  |  |
|  |  | *62* |  | *GRM31CR71A226ME15L,CAP,CER,* |  | *C61...C64,C201,* |
|  |  |  |  | *22uF,10V,X7R,1206,Murata* |  | *C202,C315...C336,* |
|  |  |  |  |  |  | *C549,C550,C634,* |
|  |  |  |  |  | *32* | *C635* |
|  |  |  |  |  |  |  |
|  |  | *64* |  | *GRM32EE70G107ME19,CAP,CER,* |  | *C337...C340,C551,* |
|  |  |  |  | *100uF,4V,X7U,1210,Murata* | *6* | *C636* |
|  |  |  |  |  |  |  |
|  |  | *66* |  | *GRM32ER71E226KE15L,CAP,CER,* |  | *C150,C159,C160,* |
|  |  |  |  | *22uF,25V,X7R,1210,Murata* |  | *C163,C164,C178,* |
|  |  |  |  |  | *17* | *C179,C238...C247* |
|  |  |  |  |  |  |  |
|  |  | *68* |  | *T491C336K025AT,CAPTANT33UF25V* |  |  |
|  |  |  |  | *10%2413,Kemet* | *1* | *C136* |
|  |  |  |  |  |  |  |
|  |  | *70* |  | *T491X107K025AT,CAPTANT100UF25V* |  | *C106,C156,C157,* |
|  |  |  |  | *10%2917,Kemet* | *9* | *C177,C218...C222* |
|  |  |  |  |  |  |  |
|  |  | *72* |  | *T495X337K010ATE060,CAPTANT330UF* |  |  |
|  |  |  |  | *10V10%2917,Kemet* | *1* | *C180* |
|  |  |  |  |  |  |  |
|  |  | *74* |  | *T495X477K006ATE030,CAPTANT470UF* |  | *C165,C166,C181,* |
|  |  |  |  | *6.3V10%2917,Kemet* |  | *C248...C252,* |
|  |  |  |  |  | *11* | *C312...C314* |
|  |  |  |  |  |  |  |
|  |  | *76* |  | *Бамбарбия, Киргуду, Murata* | *2* | *C1, C2* |
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|  |  |  |  | *Прочие* |  |  |
|  |  |  |  |  |  |  |
|  |  | *78* |  | *515-1064,LIGHTPIPE2.5MMTRI* |  |  |
|  |  |  |  | *LEVEL,Dialight* | *1* | *LP* |
|  |  |  |  |  |  |  |
|  |  | *80* |  | *747500082,QSFP+CAGEHEATSINK* |  |  |
|  |  |  |  | *ASSEMBLY,Molex* | *2* | *CAGE4,CAGE2* |
|  |  |  |  |  |  |  |
|  |  | *82* |  | *747500083,ICEEPROM8KBIT1MHZ* |  |  |
|  |  |  |  | *8UDFN,Microchip* | *2* | *CAGE5,CAGE3* |
|  |  |  |  |  |  |  |
|  |  | *84* |  | *CM1457-04CP,FILTERLC(PI)* |  |  |
|  |  |  |  | *70NH/12.5PFSMD,ONSemiconductor* | *15* | *Z2...Z16* |
|  |  |  |  |  |  |  |
|  |  | *86* |  | *sdfsdfsdf, sdfsdfsd, Kar* | *4* | *JP, JP* |
|  |  |  |  |  |  |  |
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|  |  |  |  | *Микросхемы* |  |  |
|  |  |  |  |  |  |  |
|  |  | *88* |  | *85411AMILF,ICCLKBUFFER1:2650MHz* |  |  |
|  |  |  |  | *8SOIC,IDT* | *1* | *D24* |
|  |  |  |  |  |  |  |
|  |  | *90* |  | *AD5246BKSZ100-RL7,ICDGTLRES100K* |  |  |
|  |  |  |  | *I2CSC70-6,AnalogDevices* | *1* | *D69* |
|  |  |  |  |  |  |  |
|  |  | *92* |  | *AD5692RACPZ-RL7,ICDAC14BITI2C* |  |  |
|  |  |  |  | *8-LFCSP,AnalogDevices* | *1* | *D22* |
|  |  |  |  |  |  |  |
|  |  | *94* |  | *AT24CS08-MAHM,ICEEPROM8KBIT1MHZ* |  |  |
|  |  |  |  | *8UDFN,Microchip* | *1* | *D60* |
|  |  |  |  |  |  |  |
|  |  | *96* |  | *CD74HC4051PW,ICMUX/DEMUX8X1* |  |  |
|  |  |  |  | *16TSSOP,TexasIntsruments* | *2* | *D28,D29* |
|  |  |  |  |  |  |  |
|  |  | *98* |  | *CP2105-F01-GM,SINGLE-CHIPUSBTO* |  |  |
|  |  |  |  | *DUALUARTBRIDGE,SiliconLabs* | *1* | *D12* |
|  |  |  |  |  |  |  |
|  |  | *100* |  | *CY7C65642-28LTXC,ICCONTROLLER* |  |  |
|  |  |  |  | *USB28QFN,CypressSemiconductor* | *1* | *D62* |
|  |  |  |  |  |  |  |
|  |  | *102* |  | *DS1683S+,ICRTCELAPSEDCNTI2C* |  |  |
|  |  |  |  | *8-SOIC,MaximIntegrated* | *1* | *D2* |
|  |  |  |  |  |  |  |
|  |  | *104* |  | *HD3SS3412RUA,ICMUX2:18OHM* |  |  |
|  |  |  |  | *42WQFN,TexasInstruments* | *3* | *D80...D82* |
|  |  |  |  |  |  |  |
|  |  | *106* |  | *JTAG-SMT2-NC,JTAGProgramming* |  |  |
|  |  |  |  | *Module,Digilent* | *1* | *D11* |
|  |  |  |  |  |  |  |
|  |  | *108* |  | *LT1715IMS,ICCOMPARATOR150MHZ* |  |  |
|  |  |  |  | *DUAL10MSOP,LinearTechnology* | *2* | *D19,D66* |
|  |  |  |  |  |  |  |
|  |  | *110* |  | *LTC4281IUFD,HotSwapController* |  |  |
|  |  |  |  | *withI2CMonitoring,Linear* |  |  |
|  |  |  |  | *Technology* | *1* | *D5* |
|  |  |  |  |  |  |  |
|  |  | *112* |  | *MCP9700AT-E/TT,SENSORTEMPANLG* |  |  |
|  |  |  |  | *VOLTSOT-23-3,Microchip* | *8* | *D36...D43* |
|  |  |  |  |  |  |  |
|  |  | *114* |  | *MT28GU01GAAA1EGC-0SIT,1GbMicron* |  |  |
|  |  |  |  | *StrataFlashEmbeddedMemory,* |  |  |
|  |  |  |  | *Micron* | *1* | *D9* |
|  |  |  |  |  |  |  |
|  |  | *116* |  | *MT29F32G08CBCCBH1-12Z,32Gb* |  |  |
|  |  |  |  | *MicronNANDFLASH,Micron* | *1* | *D8* |
|  |  |  |  |  |  |  |
|  |  | *118* |  | *MT40A512M16HA-083E,Micron8Gbx16* |  |  |
|  |  |  |  | *DDR4SDRAM,Micron* | *8* | *D7,D45...D51* |
|  |  |  |  |  |  |  |
|  |  | *120* |  | *OPA188AIDBV,ICOPAMPZERO-DRIFT* |  |  |
|  |  |  |  | *2MHZSOT23-5,TexasInstruments* | *3* | *D21,D64,D65* |
|  |  |  |  |  |  |  |
|  |  | *122* |  | *PCA9306DCU,ICVOLTLEVEL* |  |  |
|  |  |  |  | *TRANSLATORUS8,TexasInstruments* | *8* | *D72...D79* |
|  |  |  |  |  |  |  |
|  |  | *124* |  | *PCA9545ARGYR,4channelI2CSwitch,* |  |  |
|  |  |  |  | *TexasInstruments* | *1* | *D71* |
|  |  |  |  |  |  |  |
|  |  | *126* |  | *PCA9551BS,8LEDDRIVER,I2C,NXP* | *2* | *D17,D18* |
|  |  |  |  |  |  |  |
|  |  | *128* |  | *SN74AVC4T245RSV,ICICBUSTRANSCVR* |  |  |
|  |  |  |  | *4BIT16-UQFN,TexasInstruments* | *5* | *D83...D85,D88,D91* |
|  |  |  |  |  |  |  |
|  |  | *130* |  | *SN74LVC1T45DBV,ICBUSTRANSCVR* |  | *D10,D23,D61,D63,* |
|  |  |  |  | *TRI-STSOT23-6,TexasInstruments* | *5* | *D70* |
|  |  |  |  |  |  |  |
|  |  | *132* |  | *Si5328B-C-GM,ICCLOCKMULTIPLIER* |  |  |
|  |  |  |  | *ETH36QFN,SiliconLabs* | *1* | *D56* |
|  |  |  |  |  |  |  |
|  |  | *134* |  | *Si53340-B-GM,ICBUFFER2:4LVDSMUX* |  |  |
|  |  |  |  | *16QFN,SiliconLabs* | *4* | *D86,D87,D89,D90* |
|  |  |  |  |  |  |  |
|  |  | *136* |  | *Si5345A-D-GM,ICCLOCKGENBUFFER* |  |  |
|  |  |  |  | *PLL64QFN,SiliconLabs* | *1* | *D6* |
|  |  |  |  |  |  |  |
|  |  | *138* |  | *TCA6408ARGTR,8BITI2CIOEXPANDER* |  |  |
|  |  |  |  | *INTRST,TexasInstruments* | *1* | *D25* |
|  |  |  |  |  |  |  |
|  |  | *140* |  | *TMP401AIDGK,SENSORTEMPERATURE* |  |  |
|  |  |  |  | *SMBUS8VSSOP,TexasInstruments* | *1* | *D4* |
|  |  |  |  |  |  |  |
|  |  | *142* |  | *TPS51200DRC,ICREGDDRSINK/SOURCE* |  |  |
|  |  |  |  | *TERM10SON,TexasInstruments* | *2* | *D57,D58* |
|  |  |  |  |  |  |  |
|  |  | *144* |  | *TPS54320RHL,ICREGBUCKADJ3ASYNC* |  |  |
|  |  |  |  | *14QFN,TexasInstruments* | *2* | *D16,D53* |
|  |  |  |  |  |  |  |
|  |  | *146* |  | *TPS65135RTER,ICREGSIMOMULTIOUT* |  |  |
|  |  |  |  | *16WQFN,TexasInstruments* | *1* | *D20* |
|  |  |  |  |  |  |  |
|  |  | *148* |  | *TPS7A4700RGW,ICREGLDOADJ1A* |  |  |
|  |  |  |  | *20VQFN,TexasInstruments* | *2* | *D44,D55* |
|  |  |  |  |  |  |  |
|  |  | *150* |  | *TS3USB30ERSWR,ICSWITCHDPDT* |  |  |
|  |  |  |  | *USB2.010-MINIQFN,Texas* |  |  |
|  |  |  |  | *Instruments* | *1* | *D59* |
|  |  |  |  |  |  |  |
|  |  | *152* |  | *TUSB1210BRHB,ICTXRXUSB2.0ULPI* |  |  |
|  |  |  |  | *ULPI32QFN,TexasInstruments* | *1* | *D68* |
|  |  |  |  |  |  |  |
|  |  | *154* |  | *UCD74106RGM,ICREGBUCK6ASYNC* |  |  |
|  |  |  |  | *13VQFN,TexasInstruments* | *1* | *D27* |
|  |  |  |  |  |  |  |
|  |  | *156* |  | *UCD74120RVFR,25ASynchronousBuck* |  |  |
|  |  |  |  | *PowerStage,TexasInstruments* | *8* | *D14,D26,D30...D35* |
|  |  |  |  |  |  |  |
|  |  | *158* |  | *UCD9081RHB,ICPSSEQUENCER/MON8CH* |  |  |
|  |  |  |  | *32-QFN,TexasInstruments* | *1* | *D3* |
|  |  |  |  |  |  |  |
|  |  | *160* |  | *UCD9248PFC,DigitalPWMSystem* |  |  |
|  |  |  |  | *Controller,TexasInstruments* | *2* | *D13,D15* |
|  |  |  |  |  |  |  |
|  |  | *162* |  | *XCKU085-2FLVB1760I|FPGA1,,* |  |  |
|  |  |  |  | *Xilinx* | *1* | *D54* |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | *Светодиоды* |  |  |
|  |  |  |  |  |  |  |
|  |  | *164* |  | *APHB1608CGKSURKC,LEDGREEN/RED* |  | *HL1,HL3,HL5,* |
|  |  |  |  | *CLEAR0603SMD,Kingbright* | *7* | *HL8...HL11* |
|  |  |  |  |  |  |  |
|  |  | *166* |  | *MSL0402RGBU1,LEDRGBDIFFUSEDSMD,* |  |  |
|  |  |  |  | *RohmSemiconductor* | *2* | *HL2,HL4* |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | *Дроссели* |  |  |
|  |  |  |  |  |  |  |
|  |  | *168* |  | *744303022,FIXEDIND220nH31A* |  | *L29,L30,L32,* |
|  |  |  |  | *0.325mOHMSMD,Wurth* | *8* | *L37...L40,L42* |
|  |  |  |  |  |  |  |
|  |  | *170* |  | *744311068,FIXEDIND680nH17A* |  |  |
|  |  |  |  | *3.1mOHMSMD,Wurth* | *2* | *L36,L41* |
|  |  |  |  |  |  |  |
|  |  | *172* |  | *BLE32PN300SN1,FERRITEBEAD30OHM* |  | *L21,L24,* |
|  |  |  |  | *12101LN,Murata* |  | *L26...L28,L31,* |
|  |  |  |  |  | *8* | *L33,L35* |
|  |  |  |  |  |  |  |
|  |  | *174* |  | *BLM15PD600SN1,FERRITEBEAD60OHM* |  | *L1,L8...L13,L15,* |
|  |  |  |  | *04021LN,Murata* |  | *L16,L43...L45,* |
|  |  |  |  |  |  | *L51...L62,L66,* |
|  |  |  |  |  | *28* | *L68,L69,L93* |
|  |  |  |  |  |  |  |
|  |  | *176* |  | *BLM18PG221SN1,FERRITEBEAD220OHM* |  | *L2...L7,L14,L48,* |
|  |  |  |  | *06031LN,Murata* | *11* | *L63,L67,L94* |
|  |  |  |  |  |  |  |
|  |  | *178* |  | *BLM18PG330SN1,FERRITEBEAD33OHM* |  |  |
|  |  |  |  | *06031LN,Murata* | *4* | *L22,L23,L34,L49* |
|  |  |  |  |  |  |  |
|  |  | *180* |  | *DLP11SA900HL2,CMC150MA2LN90OHM* |  |  |
|  |  |  |  | *SMD,Murata* | *2* | *L64,L65* |
|  |  |  |  |  |  |  |
|  |  | *182* |  | *IFSC1515AHER4R7M01,FIXEDIND* |  |  |
|  |  |  |  | *4.7uH2.2A90mOHMSMD,Vishay* | *5* | *L17...L20,L50* |
|  |  |  |  |  |  |  |
|  |  | *184* |  | *LPS3008-222MR,FIXEDIND2.2uH1.1A* |  |  |
|  |  |  |  | *175mOHMSMD,Coilcraft* | *1* | *L25* |
|  |  |  |  |  |  |  |
|  |  | *186* |  | *TCE1608G-900-4P,CMC100MA4LN90* |  | *L46,L47,* |
|  |  |  |  | *OHMSMDESD,TDK* | *27* | *L70...L92,L95,L96* |
|  |  |  |  |  |  |  |
|  |  | *188* |  | *sdfsdfsdf, sdfsdfsd, Kar* | *4* | *JP, JP* |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | *Резисторы* |  |  |
|  |  |  |  |  |  |  |
|  |  | *190* |  | *515-1064,LIGHTPIPE2.5MMTRI* |  |  |
|  |  |  |  | *LEVEL,Dialight* | *1* | *LP* |
|  |  |  |  |  |  |  |
|  |  | *192* |  | *CRF1206-FZ-R002ELF,RESSMD0.002* |  |  |
|  |  |  |  | *OHM1%1W1206,BournsInc* | *1* | *R30* |
|  |  |  |  |  |  |  |
|  |  | *194* |  | *ERA-2AEB1652X,RES,THINFILM,* |  |  |
|  |  |  |  | *16.5K0.1%,0.063W,0402,Panasonic* | *3* | *R27...R29* |
|  |  |  |  |  |  |  |
|  |  | *196* |  | *ERA-2AEB8251X,RES,THINFILM,* |  |  |
|  |  |  |  | *8.25K0.1%,0.063W,0402,Panasonic* | *3* | *R24,R25,R113* |
|  |  |  |  |  |  |  |
|  |  | *198* |  | *ERJ-2GEJ390X,RESSMD39OHM5%1/10W* |  |  |
|  |  |  |  | *0402,Panasonic* | *4* | *R584...R587* |
|  |  |  |  |  |  |  |
|  |  | *200* |  | *ERJ-2RKF1000X,RESSMD100OHM1%* |  | *R63...R70,R75,* |
|  |  |  |  | *1/10W0402,Panasonic* |  | *R92,R116,R158,* |
|  |  |  |  |  |  | *R159,R161...R164,* |
|  |  |  |  |  |  | *R221...R225,* |
|  |  |  |  |  |  | *R295...R310,R322,* |
|  |  |  |  |  |  | *R323,R357...R374,* |
|  |  |  |  |  |  | *R390...R393,* |
|  |  |  |  |  |  | *R441...R444,* |
|  |  |  |  |  |  | *R484...R486,R578,* |
|  |  |  |  |  |  | *R579,R594,R595,* |
|  |  |  |  |  |  | *R658...R661,* |
|  |  |  |  |  |  | *R700...R703,R707,* |
|  |  |  |  |  | *83* | *R708* |
|  |  |  |  |  |  |  |
|  |  | *202* |  | *ERJ-2RKF1001X,RESSMD1000OHM1%* |  | *R192...R198,R317,* |
|  |  |  |  | *1/10W0402,Panasonic* |  | *R325,R396,R431,* |
|  |  |  |  |  |  | *R454,R460,R463,* |
|  |  |  |  |  |  | *R464,R470,R473,* |
|  |  |  |  |  |  | *R526...R528,R555,* |
|  |  |  |  |  |  | *R556,R558...R573,* |
|  |  |  |  |  |  | *R591...R593,R596,* |
|  |  |  |  |  |  | *R663,R670,R713,* |
|  |  |  |  |  | *46* | *R720* |
|  |  |  |  |  |  |  |
|  |  | *204* |  | *ERJ-2RKF1002X,RESSMD10KOHM1%* |  | *R12,R13,* |
|  |  |  |  | *1/10W0402,Panasonic* |  | *R31...R35,R37,* |
|  |  |  |  |  |  | *R45...R51,R53,* |
|  |  |  |  |  |  | *R59,R61,* |
|  |  |  |  |  |  | *R84...R91,R101,* |
|  |  |  |  |  |  | *R120,R122,* |
|  |  |  |  |  |  | *R124...R129,R131,* |
|  |  |  |  |  |  | *R135,R137,R138,* |
|  |  |  |  |  |  | *R142...R144,R152,* |
|  |  |  |  |  |  | *R153,R160,* |
|  |  |  |  |  |  | *R179...R181,* |
|  |  |  |  |  |  | *R188...R191,R200,* |
|  |  |  |  |  |  | *R324,R344,R348,* |
|  |  |  |  |  |  | *R349,R388,R389,* |
|  |  |  |  |  |  | *R394,R402,R404,* |
|  |  |  |  |  |  | *R411...R419,R421,* |
|  |  |  |  |  |  | *R438...R440,R446,* |
|  |  |  |  |  |  | *R451...R453,R457,* |
|  |  |  |  |  |  | *R458,R465...R469,* |
|  |  |  |  |  |  | *R482,R499,R686,* |
|  |  |  |  |  |  | *R689,R690,* |
|  |  |  |  |  | *94* | *R695...R697* |
|  |  |  |  |  |  |  |
|  |  | *206* |  | *ERJ-2RKF1003X,RESSMD100KOHM1%* |  | *R16,R19,R20,R111,* |
|  |  |  |  | *1/10W0402,Panasonic* |  | *R112,R329...R331,* |
|  |  |  |  |  |  | *R343,R399,R400,* |
|  |  |  |  |  |  | *R449,R483,R529,* |
|  |  |  |  |  |  | *R666...R668,R698,* |
|  |  |  |  |  | *19* | *R699* |
|  |  |  |  |  |  |  |
|  |  | *208* |  | *ERJ-2RKF1471X,RESSMD1.47KOHM1%* |  |  |
|  |  |  |  | *1/10W0402,Panasonic* | *2* | *R326,R491* |
|  |  |  |  |  |  |  |
|  |  | *210* |  | *ERJ-2RKF1543X,RESSMD154KOHM1%* |  |  |
|  |  |  |  | *1/10W0402,Panasonic* | *2* | *R82,R669* |
|  |  |  |  |  |  |  |
|  |  | *212* |  | *ERJ-2RKF1781X,RES,THICKFILM,* |  |  |
|  |  |  |  | *1.78K1%,0.1W,0402,Panasonic* | *1* | *R62* |
|  |  |  |  |  |  |  |
|  |  | *214* |  | *ERJ-2RKF1963X,RES,THICKFILM,* |  |  |
|  |  |  |  | *196K1%,0.1W,0402,Panasonic* | *9* | *R83,R539...R546* |
|  |  |  |  |  |  |  |
|  |  | *216* |  | *ERJ-2RKF2001X,RES,THICKFILM,2K* |  | *R150,R175,R176,* |
|  |  |  |  | *1%,0.1W,0402,Panasonic* | *9* | *R251...R255,R492* |
|  |  |  |  |  |  |  |
|  |  | *218* |  | *ERJ-2RKF2372X,RES,THICKFILM,* |  |  |
|  |  |  |  | *23.7K1%,0.1W,0402,Panasonic* | *1* | *R136* |
|  |  |  |  |  |  |  |
|  |  | *220* |  | *ERJ-2RKF2400X,RES,THICKFILM,* |  | *R377...R384,* |
|  |  |  |  | *240R1%,0.1W,0402,Panasonic* |  | *R547...R554,* |
|  |  |  |  |  | *19* | *R597...R599* |
|  |  |  |  |  |  |  |
|  |  | *222* |  | *ERJ-2RKF2491X,RES,THICKFILM,* |  | *R145...R147,* |
|  |  |  |  | *2.49K1%,0.1W,0402,Panasonic* |  | *R165...R170,* |
|  |  |  |  |  |  | *R226...R240,* |
|  |  |  |  |  |  | *R318...R321,R333,* |
|  |  |  |  |  |  | *R489,R490,R497,* |
|  |  |  |  |  |  | *R498,R530...R535,* |
|  |  |  |  |  |  | *R657,R662,R671,* |
|  |  |  |  |  |  | *R676...R680,R683,* |
|  |  |  |  |  |  | *R684,R706,R711,* |
|  |  |  |  |  | *56* | *R712,R716...R719* |
|  |  |  |  |  |  |  |
|  |  | *224* |  | *ERJ-2RKF2670X,RES,THICKFILM,* |  | *R182...R187,* |
|  |  |  |  | *267R1%,0.1W,0402,Panasonic* | *16* | *R256...R265* |
|  |  |  |  |  |  |  |
|  |  | *226* |  | *ERJ-2RKF2941X,RES,THICKFILM,* |  |  |
|  |  |  |  | *2.94K1%,0.1W,0402,Panasonic* | *1* | *R57* |
|  |  |  |  |  |  |  |
|  |  | *228* |  | *ERJ-2RKF3162X,RES,THICKFILM,* |  |  |
|  |  |  |  | *31.6K1%,0.1W,0402,Panasonic* | *4* | *R52,R54,R693,R694* |
|  |  |  |  |  |  |  |
|  |  | *230* |  | *ERJ-2RKF36R0X,RESSMD36OHM1%* |  |  |
|  |  |  |  | *1/10W0402,Panasonic* | *4* | *R650...R653* |
|  |  |  |  |  |  |  |
|  |  | *232* |  | *ERJ-2RKF4022X,RES,THICKFILM,* |  |  |
|  |  |  |  | *40.2K1%,0.1W,0402,Panasonic* | *4* | *R55,R56,R202,R203* |
|  |  |  |  |  |  |  |
|  |  | *234* |  | *ERJ-2RKF4121X,RES,THICKFILM,* |  |  |
|  |  |  |  | *4.12K1%,0.1W,0402,Panasonic* | *2* | *R58,R201* |
|  |  |  |  |  |  |  |
|  |  | *236* |  | *ERJ-2RKF4751X,RES,THICKFILM,* |  | *R6,R17,R18,* |
|  |  |  |  | *4.75K1%,0.1W,0402,Panasonic* |  | *R21...R23,R39,* |
|  |  |  |  |  |  | *R40,R42...R44,* |
|  |  |  |  |  |  | *R71...R74,R110,* |
|  |  |  |  |  |  | *R117...R119,R121,* |
|  |  |  |  |  |  | *R123,R130,R134,* |
|  |  |  |  |  |  | *R213,R311...R316,* |
|  |  |  |  |  |  | *R337,R345...R347,* |
|  |  |  |  |  |  | *R427...R430,R432,* |
|  |  |  |  |  |  | *R433,R436,R445,* |
|  |  |  |  |  |  | *R448,R450,R459,* |
|  |  |  |  |  |  | *R481,R500...R525,* |
|  |  |  |  |  |  | *R656,R672...R675,* |
|  |  |  |  |  |  | *R681,R682,R687,* |
|  |  |  |  |  | *83* | *R688,R714,R715* |
|  |  |  |  |  |  |  |
|  |  | *238* |  | *ERJ-2RKF4990X,RES,THICKFILM,* |  |  |
|  |  |  |  | *499R1%,0.1W,0402,Panasonic* | *2* | *R207,R208* |
|  |  |  |  |  |  |  |
|  |  | *240* |  | *ERJ-2RKF49R9X,RES,THICKFILM,* |  | *R76...R81,R461,* |
|  |  |  |  | *49.9R1%,0.1W,0402,Panasonic* |  | *R462,R536...R538,* |
|  |  |  |  |  | *12* | *R704* |
|  |  |  |  |  |  |  |
|  |  | *242* |  | *ERJ-2RKF5113X,RES,THICKFILM,* |  | *R60,R335,R398,* |
|  |  |  |  | *511K1%,0.1W,0402,Panasonic* | *4* | *R401* |
|  |  |  |  |  |  |  |
|  |  | *244* |  | *ERJ-2RKF5232X,RES,THICKFILM,* |  |  |
|  |  |  |  | *52.3K1%,0.1W,0402,Panasonic* | *1* | *R334* |
|  |  |  |  |  |  |  |
|  |  | *246* |  | *ERJ-2RKF6490X,RES,THICKFILM,* |  |  |
|  |  |  |  | *649R1%,0.1W,0402,Panasonic* | *1* | *R410* |
|  |  |  |  |  |  |  |
|  |  | *248* |  | *ERJ-2RKF7500X,RES,THICKFILM,* |  | *R199,R474...R476,* |
|  |  |  |  | *750R1%,0.1W,0402,Panasonic* | *5* | *R480* |
|  |  |  |  |  |  |  |
|  |  | *250* |  | *ERJ-2RKF8061X,RES,THICKFILM,* |  | *R151,R177,R178,* |
|  |  |  |  | *8.06K1%,0.1W,0402,Panasonic* | *10* | *R214...R220* |
|  |  |  |  |  |  |  |
|  |  | *252* |  | *RC0402FR-071RL,RESSMD1OHM1%* |  | *R148,R149,* |
|  |  |  |  | *1/16W0402,Yageo* |  | *R171...R174,* |
|  |  |  |  |  | *16* | *R241...R250* |
|  |  |  |  |  |  |  |
|  |  | *254* |  | *RC0402FR-0720RL,RESSMD20OHM1%* |  | *R3...R5,R7...R11,* |
|  |  |  |  | *1/16W0402,Yageo* |  | *R14,R15,* |
|  |  |  |  |  |  | *R93...R95,R97,* |
|  |  |  |  |  |  | *R99,R102...R104,* |
|  |  |  |  |  |  | *R106,R108,R132,* |
|  |  |  |  |  |  | *R133,R340...R342,* |
|  |  |  |  |  |  | *R356,R409,* |
|  |  |  |  |  |  | *R422...R425,R434,* |
|  |  |  |  |  |  | *R435,R447,R455,* |
|  |  |  |  |  |  | *R456,R471,R685,* |
|  |  |  |  |  | *40* | *R691,R692* |
|  |  |  |  |  |  |  |
|  |  | *256* |  | *RC0402JR-070RL,RESSMD0OHMJUMPER* |  | *R38,R114,R115,* |
|  |  |  |  | *1/16W0402,Yageo* |  | *R139,R210...R212,* |
|  |  |  |  |  |  | *R266,R268...R280,* |
|  |  |  |  |  |  | *R294,R327,R328,* |
|  |  |  |  |  |  | *R332,R336,R338,* |
|  |  |  |  |  |  | *R339,R352...R355,* |
|  |  |  |  |  |  | *R386,R387,* |
|  |  |  |  |  |  | *R493...R496,R590,* |
|  |  |  |  |  | *40* | *R705* |
|  |  |  |  |  |  |  |
|  |  | *258* |  | *RC1206JR-0710ML,RESSMD10MOHM5%* |  |  |
|  |  |  |  | *1/4W1206,Yageo* | *2* | *R1,R2* |
|  |  |  |  |  |  |  |
|  |  | *260* |  | *TC124-FR-0739RL,RESARRAY4RES39* |  | *R96,R98,R100,* |
|  |  |  |  | *OHM0804,Yageo* |  | *R105,R107,R109,* |
|  |  |  |  |  |  | *R140,R141,* |
|  |  |  |  |  | *12* | *R154...R157* |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | *Коммутация* |  |  |
|  |  |  |  |  |  |  |
|  |  | *262* |  | *A6H-4102,SWITCHSLIDEDIPSPST25MA* |  |  |
|  |  |  |  | *24V,OmronElectronics* | *1* | *S1* |
|  |  |  |  |  |  |  |
|  |  | *264* |  | *EVPAA402W,SWITCHTACTILESPST-NO* |  |  |
|  |  |  |  | *0.02A15V,Panasonic* | *2* | *S3,S4* |
|  |  |  |  |  |  |  |
|  |  | *266* |  | *KAN1102RT,SWITCHSLIDEDIPSPST* |  |  |
|  |  |  |  | *25MA24V,E-Switch* | *1* | *S2* |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | *Диоды* |  |  |
|  |  |  |  |  |  |  |
|  |  | *268* |  | *1PS79SB31,DIODESCHOTTKY30V200MA* |  | *VD1,VD16,VD17,* |
|  |  |  |  | *SOD523,Nexperia* | *4* | *VD20* |
|  |  |  |  |  |  |  |
|  |  | *270* |  | *BAV99,DIODEARRAYGP70V200MA* |  |  |
|  |  |  |  | *SOT23-3,ONSemiconductor* | *2* | *VD12,VD13* |
|  |  |  |  |  |  |  |
|  |  | *272* |  | *MMSZ4680T1G,DIODEZENER2.2V500mW* |  |  |
|  |  |  |  | *SOD123,ONSemiconductor* | *4* | *VD5...VD8* |
|  |  |  |  |  |  |  |
|  |  | *274* |  | *MMSZ4683T1G,DIODEZENER3V500mW* |  |  |
|  |  |  |  | *SOD123,ONSemiconductor* | *1* | *VD9* |
|  |  |  |  |  |  |  |
|  |  | *276* |  | *SMCJ15CA,TVSDIODE15VWM24.4VC* |  |  |
|  |  |  |  | *SMC,LittelfuseInc* | *1* | *VD2* |
|  |  |  |  |  |  |  |
|  |  | *278* |  | *TPD4S012DRYR,IC4CHESDSOLUTION* |  |  |
|  |  |  |  | *W/CLAMP6SON,TexasInstruments* | *2* | *VD10,VD19* |
|  |  |  |  |  |  |  |
|  |  | *280* |  | *VBUS05L1-DD1,TVSDIODE5.5VWM17VC* |  | *VD3,VD4,VD11,* |
|  |  |  |  | *LLP1006,Vishay* |  | *VD14,VD15,VD18,* |
|  |  |  |  |  | *7* | *VD29* |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | *Транзисторы* |  |  |
|  |  |  |  |  |  |  |
|  |  | *282* |  | *BSS138,MOSFETN-CH50V220MA* |  |  |
|  |  |  |  | *SOT-23,ONSemiconductor* | *2* | *VT5,VT6* |
|  |  |  |  |  |  |  |
|  |  | *284* |  | *NTR4101PT1G,MOSFETP-CH20V1.8A* |  | *VT14...VT16,VT26,* |
|  |  |  |  | *SOT-23,Vishay* | *5* | *VT28* |
|  |  |  |  |  |  |  |
|  |  | *286* |  | *PMV30UN2R,MOSFETN-CH20V2.7A* |  | *VT3,VT4,VT7,* |
|  |  |  |  | *SOT-23,Nexperia* |  | *VT9...VT13,* |
|  |  |  |  |  | *18* | *VT17...VT25,VT27* |
|  |  |  |  |  |  |  |
|  |  | *288* |  | *Si7137DP-T1-GE3,MOSFETP-CH20V* |  |  |
|  |  |  |  | *60APPAKSO-8,Vishay* | *1* | *VT2* |
|  |  |  |  |  |  |  |
|  |  | *290* |  | *SiR440DP-T1-GE3,MOSFETN-CH20V* |  |  |
|  |  |  |  | *60APPAKSO-8,Vishay* | *1* | *VT1* |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | *Контактные соединения* |  |  |
|  |  |  |  |  |  |  |
|  |  | *292* |  | *10052824-101LF,VSAIRMAX,R/AHDR* |  |  |
|  |  |  |  | *72POS,PRESS-FIT,FCI* | *1* | *X8* |
|  |  |  |  |  |  |  |
|  |  | *294* |  | *10052825-101LF,VSAIRMAX,R/AHDR* |  |  |
|  |  |  |  | *72POS,4WALLS,PRESS-FIT,FCI* | *1* | *X4* |
|  |  |  |  |  |  |  |
|  |  | *296* |  | *10052837-101LF,VSAIRMAX,R/AHDR* |  |  |
|  |  |  |  | *96POS,2WALLS,PRESS-FIT,FCI* | *3* | *X5...X7* |
|  |  |  |  |  |  |  |
|  |  | *298* |  | *10052838-101LF,VSAIRMAX,R/AHDR* |  |  |
|  |  |  |  | *96POS,4WALLS,PRESS-FIT,FCI* | *1* | *X9* |
|  |  |  |  |  |  |  |
|  |  | *300* |  | *2041517-2,MINI-BUSBRECEPTACLE* |  |  |
|  |  |  |  | *VERT,Tyco* | *1* | *X3* |
|  |  |  |  |  |  |  |
|  |  | *302* |  | *5414651-3,BNCRightangleESD* |  |  |
|  |  |  |  | *protected,Tyco* | *2* | *X10,X11* |
|  |  |  |  |  |  |  |
|  |  | *304* |  | *755860104,QSFP+CONN38PIN,Molex* | *1* | *X13* |
|  |  |  |  |  |  |  |
|  |  | *306* |  | *878980426,CONNHEADER4POSVERT* |  |  |
|  |  |  |  | *2.54MMSMD,Molex* | *1* | *X15* |
|  |  |  |  |  |  |  |
|  |  | *308* |  | *DF13C-3P-1.25V(21),CONNHEADER* |  |  |
|  |  |  |  | *3POS1.25MMSMDTIN,HRS* | *2* | *X1,X14* |
|  |  |  |  |  |  |  |
|  |  | *310* |  | *HTST-105-01-L-DV,CONNHEADER* |  |  |
|  |  |  |  | *10POS.100SMD,Samtec* | *1* | *X2* |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | *Кварцевые резонаторы* |  |  |
|  |  |  |  |  |  |  |
|  |  | *312* |  | *ABM8-166-114.285MHZ-T2,CRYSTAL* |  |  |
|  |  |  |  | *114.2850MHZ18PFSMD,AbraconLLC* | *1* | *ZQ2* |
|  |  |  |  |  |  |  |
|  |  | *314* |  | *CM1457-04CP,FILTERLC(PI)* |  |  |
|  |  |  |  | *70NH/12.5PFSMD,ONSemiconductor* | *15* | *Z2...Z16* |
|  |  |  |  |  |  |  |
|  |  | *316* |  | *CX3225SB12000D0GZJC1,CRYSTAL* |  |  |
|  |  |  |  | *12MHZ8PFSMD,Kyocera* | *1* | *ZQ3* |
|  |  |  |  |  |  |  |
|  |  | *318* |  | *CX3225SB54000D0FPJC1,CRYSTAL* |  |  |
|  |  |  |  | *54MHZ8PFSMD,Kyocera* | *1* | *ZQ1* |
|  |  |  |  |  |  |  |
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*Лист регистрации изменений*

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Изм* | *Номера листов (страниц)* | | | | *Всего*  *листов*  *(страниц)* | *№ докум* | *Входящий*  *№ сопрово-дительного* | *Подпись* | *Дата* |
| *изме-*  *ненных* | *заме-ненных* | *новых* | *аннули-рован-ных* |
|  |  |  |  |  |  |  |  |  |  |