CONFIDENTIAL
"SALVATOR-XS" Parts list 2017/7/14 Rev2.02
This parts list corresponds to Schematic revision Rev2.03

|          | arts list correspo    |                        |                  |                          | Rev2.0       | 3    |   |        |         |    |   |                | Lorovor                  |   | li e                             | li e                                     |                  | l .            |                  |               |
|----------|-----------------------|------------------------|------------------|--------------------------|--------------|------|---|--------|---------|----|---|----------------|--------------------------|---|----------------------------------|--|------------------|----------------|------------------|---------------|
| Item     | Quantity Referer      | nce of sch             | nematio          |                          |              |      |   | Do not | stuff   |    |   |                | Lager or<br>Koelsh<br>共通 | Part Name                                   | Value of schematic               | Part Number                              | Maker            | Device<br>Size | Rated<br>Voltage | olerance Note |
| 1        | 1 CN1<br>1 CN2        |                        |                  |                          |              |      |   |        |         |    |   |                |                          | ARM_EML 20pin CN<br>Ex memory 100pin CN     | HTST-110-01-S-DV<br>52885-1074   | HTST-110-01-S-DV<br>52885-1074           | samtec<br>molex  |                |                  |               |
| 3        | 2 CN3 (               | CN4                    |                  |                          |              |      |   |        |         |    |   |                | ×                        | EX-SPI CN                                   | PSM-410336-09                    | PSM-410336-09                            | hirosugi-keiki   |                |                  |               |
| 5        | 1 CN5<br>3 CN6 (      | CN23 CN                | 129              |                          |              |      |   |        |         |    |   |                |                          | PCI Express slot(x1) CN EXIO 60pin CN       | 87715-9006<br>QSH-030-01-L-D-A   | 87715-9006<br>QSH-030-01-L-D-A           | molex<br>samtec  |                |                  |               |
| 6        | 1 CN7                 | 31423 OIV              | 123              |                          |              |      |   |        |         |    |   |                | 0                        | SATA Drive Power CN                         | LC-04A                           | LC-04A                                   | jst              |                |                  |               |
| 7        | 1 CN8<br>4 CN9 (      | CN25 CN                | 126 CN           | 137                      |              |      |   |        |         |    |   |                | 0                        | SATA CN<br>USB microAB CN                   | 67491-0020<br>ZX62D-AB-5P8       | 67491-0020<br>ZX62D-AB-5P8               | molex<br>hrs     |                |                  |               |
| 9        | 1 CN10                | 51420 014              | 20 01            | 107                      |              |      |   |        |         |    |   |                | ×                        | USB2.0 TypeA CN                             | XM7A-0442-A                      | XM7A-0442-A                              | omron            |                |                  |               |
| 10       | 1 CN11                |                        |                  |                          |              |      |   |        |         |    |   |                | ×                        | USB 3.0 A Receptacle CN                     | E8199-001-01                     | E8199-001-01 or 10117835-002LF           | Pulse or<br>FCI  |                |                  |               |
| 11       | 0                     |                        |                  |                          |              |      |   |        |         |    |   |                | ×                        | USB 3.0 Micro-B Receptacle CN               | CMS1821-010010                   | CMS1821-010010                           | hosiden          |                |                  |               |
| 12       | 2 CN13 (              | CN14                   |                  |                          |              |      |   |        |         |    |   |                |                          | SD card Slot CN                             | SCDABA0801<br>D02-M15SAG-23L9E   |  | alps             |                |                  |               |
| 13       | 1 CN15                |                        |                  |                          |              |      |   |        |         |    |   |                |                          | AnalogRGB CN                                | or KEY-15S-2A2A(LF)(SN)          | D02-M15SAG-23L9E or KEY-15S-2A2A(LF)(SN) | jae or JST       |                |                  |               |
| 14       | 3 CN16 (<br>1 CN18    | CN17 CN                | 120              |                          |              |      |   |        |         |    |   |                | 0                        | HDMI Type A CN<br>LVDS 20pin CN             | 1747981-1<br>DF14A-20P-1.25H(55) | 1747981-1<br>DF14A-20P-1.25H(55)         | tyco<br>hrs      |                |                  |               |
| 16       | 1 CN19                |                        |                  |                          |              |      |   |        |         |    |   |                |                          | LVDS Backlight CN                           | SM14B-SRSS-TB(LF)(SN)            | SM14B-SRSS-TB(LF)(SN)                    | jst              |                |                  |               |
| 17<br>18 | 1 CN21<br>1 CN22      |                        |                  |                          |              |      |   |        |         |    |   |                |                          | CVBS Input CN<br>RJ45 CN                    | LPR6520-1501F<br>0826-1G1T-23-F  | LPR6520-1501F<br>0826-1G1T-23-F          | smk<br>bel       |                |                  |               |
| 19       | 0                     |                        |                  |                          |              |      |   |        |         |    |   |                |                          | Audio LINE In/Out CN                        | HSJ1003-016020                   | HSJ1003-016020                           | hosiden          |                |                  |               |
| 20<br>21 | 2 CN27 (              | CN28                   |                  |                          |              |      |   |        |         |    |   |                | 0                        | EXIO 80pin CN<br>12V Power CN               | QSE-040-01-F-D-A<br>53259-0429   | QSE-040-01-F-D-A<br>53259-0429           | samtec           |                |                  |               |
| 22       | 1 CN30<br>0           |                        |                  |                          |              |      |   |        |         |    |   |                |                          | AC Adapter CN                               | LGP6531-1000F                    | LGP6531-1000F                            | molex<br>smk     |                |                  |               |
| 23<br>24 | 1 CN32                |                        |                  |                          |              |      |   |        |         |    |   |                |                          | Power Supply CN for I/O board<br>CPU FAN CN | B7B-PH-SM4-TB<br>B2B-PH-SM4-TB   | B7B-PH-SM4-TB<br>B2B-PH-SM4-TB           | jst<br>ist       |                |                  |               |
| 25       | 51 CP1 (              |                        |                  |                          | CP8          |      |   |        |         |    |   |                |                          | PAD   | CP                               | SMD-CU1.00-SR0.90                        | -<br>-           |                |                  |               |
|          |                       | CP10 CP<br>CP15 CP     |                  | P12 CP13                 |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | CP19 (                | CP20 CP                | 21 CF            | P22 CP23                 |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | CP24 (                | CP25 CP                | 26 CF            | P27 CP44<br>P48 CP49     |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | CP50                  | CP51 CP                | 52 CF            | P53 CP54                 |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | CP55 (                | CP56 CP                | 57 CF            | P58 CP59<br>P64 CP65     |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          |                       |                        |                  | P69 CP70                 |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
| 0.0      | CP71                  |                        |                  |                          |              |      |   | OFOC   | 0500    |    |   |                |                          | . 1. 1 11                                   | 1. Fa                            | COMMERCALLIADOCATA                       |                  | 1005           | FOV.             |               |
| 26<br>27 | 3 C24 (               | C27 C2                 | 8                |                          |              |      |   |        | C520    |    |   |                | ×                        | chip capacitor<br>chip capacitor            | 1pF*<br>10pF                     | GCM1555C1H1R0CA16<br>GCM1555C1H100JA16   | murata<br>murata | 1005           | 50V<br>50V       |               |
| 28       | 0                     |                        | Ŧ                |                          |              |      |   | C19    | C20 C52 | 22 |   | $\Box$         | ×                        | chip capacitor                              | 10pF*                            | GCM1555C1H100JA16                        | murata           | 1005           | 50V              |               |
| 29<br>30 | 2 C324 C<br>2 C437 C  |                        | _                |                          | L            |      |   |        |         |    |   |                | ×                        | chip capacitor<br>chip capacitor            | 30pF<br>20pF                     | GCM1555C1H300JA16<br>GCM1555C1H200JA16   | murata<br>murata | 1005<br>1005   | 50V<br>50V       |               |
| 31       | 2 C512                | C528                   | 1                |                          |              |      |   |        |         |    |   |                | ×                        | chip capacitor                              | 22pF                             | GCM1555C1H220JA16                        | murata           | 1005           | 50V              |               |
| 32<br>33 | 2 C744 0              | J /45                  |                  |                          |              |      |   |        |         |    |   |                |                          | chip capacitor<br>chip capacitor            | 24pF<br>33pF                     | GCM1555C1H240JA16<br>GCM1555C1H330JA16   | murata<br>murata | 1005<br>1005   | 50V<br>50V       |               |
| 34       | 2 C478 (              |                        | T                |                          |              |      |   |        |         |    |   |                | ×                        | chip capacitor                              | 39pF                             | GCM1555C1H390JA16                        | murata           | 1005           | 50V              |               |
| 35<br>36 | 2 C390 (<br>74 C131 ( |                        | 37 C.º           | )50                      |              |      |   |        |         |    |   | $\vdash\vdash$ |                          | chip capacitor<br>chip capacitor            | 47pF<br>1000pF                   | GCM1555C1H470JA16<br>GCM155R71H102KA37   | murata<br>murata | 1005<br>1005   | 50V<br>50V       | -             |
|          | C638                  | C639 C6                | 40 C6            | 641 C642                 | C643         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C644 (                | C651 C6                | 46 C6            | 647 C648<br>653 C654     | C649<br>C655 |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C656                  | C657 C6                | 58 C6            | 59 C660                  | C661         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          |                       |                        |                  | 65 C666<br>696 C697      | C698         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C699                  | C700 C7                | 01 C7            | 02 C703                  | C704         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          |                       |                        |                  | 08 C709<br>14 C715       |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C717                  | C718 C7                | 19 C7            | 20 C721                  | C722         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C723 (                | C724 C7                | 25 C7            | 26 C727<br>32 C733       | C728         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
| 37       | 0                     |                        |                  |                          |              |      |   | C306   |         |    |   |                |                          | chip capacitor                              | 1000pF*                          | GCM155R71H102KA37                        | murata           | 1005           | 50V              |               |
| 38       | 16 C513 (             | C529 C1                | 71 C1            | 72<br>35 C636            | C637         |      |   |        |         |    |   |                | ×                        | chip capacitor                              | 4700pF                           | GCM155R71H472KA37                        | murata           | 1005           | 50V              |               |
|          | C687                  | C688 C6                | 89 C6            | 35 C636<br>90 C691       | C692         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
| 39<br>40 | 0                     | C4                     | 1 C4             | 4 C46                    |              |      |   |        |         |    |   |                |                          | chip capacitor<br>chip capacitor            | 6.8nF<br>0.01uF                  | GCM155R71H682KA55<br>GCM155R71E103KA37   | murata<br>murata | 1005<br>1005   | 16V<br>25V       |               |
| 40       | C58                   | C61 C7                 | 4 C8             | 0 C86                    | C88          |      |   |        |         |    |   |                | ^                        | спір сарасітог                              | 0.0141                           | GOWITOSIC/TETOSICAS/                     | illul ata        | 1003           | 254              |               |
|          | C102                  | C104 C1                | 06 C1            | 11 C112                  |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | CII6                  | 3117 (31               | 21 (31           | 22 C125                  |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          |                       |                        |                  |                          |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          |                       |                        |                  |                          |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          |                       |                        |                  | C309                     |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C310 (<br>C394 (      | C365   C3              | 67 C3            | 69 C392<br>03 C406       |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C408                  | C411 C4                | 13 C4            | 17 C457                  |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C458 (                | C754   C7              | 55 C7            | 756 C757<br>761 C764     |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C765                  | C766 C7                | 67 C7            | 68 C769                  |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C776                  | 2040                   | C8               | C846<br>C851             |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C852 (                | C853 C8                | 54 C8            | 355 C856                 |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C857                  | C858 C8                | 59 C8            | 94                       |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C624                  | C625 C6                | 26 C6            | 627 C628                 | C629         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C630                  | C631 C6                | 79 C6            | 80 C681                  | C682         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C683 (                | C684 C6                | 85 C6            | 186                      |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
| 41       | 0                     |                        |                  |                          |              |      |   |        |         |    |   |                |                          | chip capacitor                              | 0.01uF*                          | GCM155R71E103KA37                        | murata           |                | 25V              |               |
| 42       | 0                     |                        |                  |                          |              |      |   |        |         |    |   |                | ×                        | chip capacitor                              | 0.022uF                          | GCM155R71E223KA55                        | murata           | 1005           | 25V              |               |
|          |                       |                        |                  |                          |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
| 43       | 2 C201                | C864                   |                  |                          |              |      |   |        |         |    |   |                | ×                        | chip capacitor                              | 0.033uF                          | GCM155R71C333KA37                        | murata           | 1005           | 16V              |               |
| 44       | 0                     |                        |                  |                          |              |      |   |        |         |    |   |                | ×                        | chip capacitor                              | 0.047uF                          | GCM155R71E473KA55                        | murata           | 1005           | 25V              |               |
|          |                       |                        |                  |                          |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          |                       |                        |                  |                          |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
| 45       | 242 C1 (<br>C26 (     | C2 C3                  | C2               | C22<br>C32               | C23<br>C34   | C25  | Ī | ]      |         | _  |   | 1              | ×                        | chip capacitor                              | 0.1uF                            | GCM155R71A104KA55                        | murata           | 1005           | 10V              |               |
|          | C36                   | C37                    | C4               | 9 C56                    | C64          |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C87                   | C89 C9                 | 0 C9             | 2<br>27 C128             |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C142 (                | C143 C1                | 44 C1            | 45 C146                  | C147         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C148 (                | C149 C1                | 50 C1            | 51 C152<br>59 C160       | C153         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C268                  | C270 C2                | 71 C2            | 72 C276<br>88 C289       | C277         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C274                  | C275 C2                | 79 C2            | 288 C289                 | C280         | C282 |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C287 C296 C           | C297   C3              | 92  C2<br>01  C3 | 93 C294<br>302 C313      | C295         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C315                  | C316 C3                | 17 C3            | 302 C313<br>318 C320     | C321         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C323 (                | C326   C3<br>C349   C3 | 38 C3<br>50 C3   | 841   C343<br>851   C352 | C344<br>C355 |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C356                  | C358 C3                | 59 C3            | 61 C366                  | C368         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C383                  | C384 C3                | 85 C3            | 374 C376<br>388 C391     | C393         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C395                  | C399 C4                | 02 C4            | 05 C407                  | C410         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C412 (                | C416 C4                | 33 C4            | 34 C461                  | C464         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C479                  | C483 C4                | 85 C4            | 186 C488<br>132 C544     | C489         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C570                  | C575 C6                | 01 C6            | 02 C604                  | C605         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C606                  | C607 C6                | 08 C6            | 09 C610                  | C611         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          |                       |                        |                  | C616<br>C622             | C617         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C618 (                | ous C6                 | 20 C6            | JZ1 U022                 | 0023         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          |                       |                        |                  |                          |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          |                       |                        |                  |                          |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          |                       |                        |                  |                          |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          |                       |                        |                  |                          |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          |                       | 2075                   |                  | 75                       | C671         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C672 (<br>C678        | C673 C6                | 74 C6            | 75 C676                  | C677         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          | C0/8                  |                        |                  |                          |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          |                       |                        |                  |                          |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          |                       |                        |                  |                          |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          |                       |                        |                  |                          |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          |                       |                        |                  |                          |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
|          |                       | 0.7                    | 34 07            | 35 C736                  | C727         |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |
| n 1      |                       | U/                     | J-+  U/          | JU  U/30                 | 0131         | ı    | I | I      | ı I     | 1  | T | ı I            | 1                        | ı   | II .                             | u I                                      | II               | II             | u II             | ıı II         |
|          |                       |                        |                  |                          |              |      |   |        |         |    |   |                |                          |   |                                  |  |                  |                |                  |               |

|   | C738   C739   C740   C741   C749   C750   C752   C753   | C762   | C763          |              |                                      |                                      |  |  |                     | '   |  |  |   |  |                   |  |
|---|---|--|---------------|--------------|--------------------------------------|--------------------------------------|--|--|---------------------|---|--|--|---|--|-------------------|--|
|   | C770 C771 C772 C773<br>C793 C795 C796 C798  | C799   |               |              |                                      |                                      |  |  |                     |   |  |  |   |  |                   |  |
|   | C802 C808 C809 C810<br>C816 C817 C818 C823<br>C830 C831 C895  | C813 (<br>C828 (<br>C906 (   | C829          |              |                                      |                                      |  |  |                     |   |  |  |   |  |                   |  |
|   | C908 C909 C910 C911<br>C914 C915 C916 C917  | C912   | C913          | 7            |                                      |                                      |  |  |                     |   |  |  |   |  |                   |  |
|   | C920 C921 C922 C923<br>C927   | C931   |               |              |                                      |                                      |  |  |                     |   |  |  |   |  |                   |  |
|   | C949 C967 C968 C969<br>C972 C973 C974 C975  | C970 C   | C971          |              |                                      |                                      |  |  |                     |   |  |  |   |  |                   |  |
| 46 22   | C934 C936 C978 C979<br>C291 C307 C308 C328  | C493   |               | +-           | C558                                 | C562                                 | C932 C   | 2933   | ×                   | chip capacitor  | 0.1uF  | GCM155R71H104KE02  | murata  | 1005   | 50V               |  |
|   | C497 C501 C516 C824<br>C826 C827 C901 C902  | C903   | C545          |              |                                      |                                      |  |  |                     |   |  |  |   |  |                   |  |
| 47 0<br>48 4  | C904 C905 C198 C204   | C929 (   | C930          |              |                                      |                                      |  |  |                     | chip capacitor  | 0.1uF*<br>0.22uF   | GCM155R71A104KA55<br>GCM155R71C224KE02   | murata  |  | 10V<br>16V        |  |
| 49 5  | C163 C165   | C874   | C2<br>C872 C8 |              | ╂                                    | $\sqcup$                             | $\vdash$   |  | ×                   | chip capacitor chip capacitor   | 0.47uF   | GCM155C71A474KE36  | murata<br>murata  |  | 10V               |  |
|   | C875 C881 C887 C43 C51 C65 C70  |  | C107          |              | ╂                                    | -                                    |  |  |                     | chip capacitor  | 1uF  | GCM155C71A105KE38  | murata  |  | 10V               |  |
|   | C114 C119 C322 C327 C329 C330   | C312<br>C332   |               |              |                                      |                                      |  |  |                     |   |  |  |   |  |                   |  |
|   | C333 C334 C335 C336<br>C339 C342 C345 C347  |  | C372          |              |                                      |                                      |  |  |                     |   |  |  |   |  |                   |  |
|   | C554 C576 C578 C751 C792 C797 C801 C811 C812  |  |               |              |                                      |                                      |  |  |                     |   |  |  |   |  |                   |  |
|   | C821 C822 C832 C833<br>C951 C952 C953   | C834   | C955 C9       | 56           |                                      |                                      |  |  |                     |   |  |  |   |  |                   |  |
|   | C612 C613 C614 C615<br>C667 C668 C669 C670  | C269   | C273          |              |                                      |                                      |  |  |                     |   |  |  |   |  |                   |  |
| 51 0<br>52 11   | C55 C63 C69   | 0000   | C353          | _            | C305                                 |                                      |  |  | ×                   | chip capacitor<br>chip capacitor  | 1uF*<br>2.2uF  | GCM155C71A105KE38<br>GCM188C71A225KE02   | murata<br>murata  | 1005<br>1608   | 10V<br>10V        |  |
|   | C354 C357 C360 C362<br>C476 C498  | 2 (303   |               |              |                                      |                                      |  |  |                     |   |  |  |   |  |                   |  |
|   | C85 C103 C110 C115<br>C217 C242 C243 C244   | C245   |               | +            | 1                                    |                                      |  |  | ×                   | chip capacitor  | 4.7uF  | GCM21BC71E475KE36  | murata  | 2012   | 25V               |  |
|   | C264 C265 C266 C267<br>C490   | 7 C491   |               |              |                                      |                                      |  |  |                     |   |  |  |   |  |                   |  |
|   | C492 C496 C556 C557<br>C574 C803 C804 C807  | C569<br>C938   | C939 C9       | 40 C941      |                                      | 0001                                 |  |  |                     | akin ang 2  | 47.54  | OOM01D071E47EVE00  |   | 2012   | 25)               |  |
|   | C494 C155 C156 C161 C220  | ) C221   |               | #            | U3U3                                 | C304                                 |  |  | ×                   | chip capacitor chip capacitor chip capacitor chip capacitor   | 4.7uF*<br>6.8uF<br>10uF  | GCM21BC71E475KE36<br>GCM31CR71A685KA64<br>GCM21BC71C106KE36  | murata  | 3216   | 25V<br>10V<br>16V |  |
|   | C255 C256 C298 C300<br>C375 C382 C398 C401  | C311<br>C404   |               |              |                                      |                                      |  |  |                     |   | 3.   |  | uta   |  |                   |  |
|   | C409 C414 C418 C421<br>C444 C451 C453 C454  | C442<br>C455   |               |              |                                      |                                      |  |  |                     |   |  |  |   |  |                   |  |
|   | C456 C465 C468 C469<br>C473 C482 C530 C541  | C555   |               |              |                                      |                                      |  |  |                     |   |  |  |   |  |                   |  |
|   | C561 C566 C571 C577<br>C805 C806 C860 C861<br>C742 C743   | C879 (   | C963          | 51 C582      | -                                    |                                      |  |  | ×                   | chip capacitor  | 10uF   | GCM32ER71E106KA57  | murata  | 3225   | 25V               |  |
| 8 6   | C781 C782 C783 C784   | C957   | C958          | <del> </del> | 1-                                   |                                      |  |  | ×                   |   | 22uF<br>22uF   | GRM21BR61E226ME44<br>GCM31CR71A226KE02   | murata<br>murata  | 2012   | 25V<br>10V        |  |
|   | C508 C524 C540 C542   | 2  |               |              |                                      |                                      |  |  | ×                   | chip capacitor chip capacitor   | 47uF<br>47uF   | GRM32ER71A476KE15<br>GCM32ER70J476KE19   | murata  | 3225   | 10V<br>6.3V       |  |
|   |   |  |               |              |                                      |                                      |  |  |                     |   |  |  |   |  |                   |  |
|   |   |  |               |              |                                      |                                      |  |  |                     |   |  |  |   |  |                   |  |
|   |   |  |               |              |                                      |                                      |  |  |                     |   |  |  |   |  |                   |  |
| 3   | C299<br>D19 D20 D21   |  |               |              |                                      |                                      |  |  | ×                   |   | 100uF<br>RB706W-40FH   | GRM31CR60J107ME39<br>RB706W-40FH or RB706WM-40FH   | murata<br>rohm  | 3216   | 6.3V              |  |
| 4 0<br>5 0<br>6 0   |   |  |               |              |                                      |                                      |  |  | 0<br>×<br>0         | Ultra Low Capacitance TVS Arrays<br>Zener diode<br>Shottky Barrier Diode  | RCLAMP0524PATCT<br>DZ2S033M0L<br>TCH10A15  | RCLAMP0524PATCT<br>DZ2S033M0L<br>TCH10A15  | semtech panasonic nihon inter elect   |  |                   |  |
| 0   | D33 D35   |  |               |              |                                      |                                      |  |  | ×                   | Shottky Barrier Diodes  | BAT54<br>B360B-13-F  | BAT54  | ninon inter elect<br>nxp<br>diodes  |  |                   |  |
| 2   | E17 E18 E5 E6 E7 E8   | E9   |               |              | 1-                                   |                                      |  |  |                     | ALUMINUM ELECTROLYTIC CAP ALUMINUM ELECTROLYTIC CAP   | 22uF   | EMVE6R3ADA220MD55G<br>EMVE250ADA101MF80G   | nippon kemi-con<br>nippon kemi-con  |  | 6.3V<br>25V       |  |
| 2 2   | E12<br>E19 E21  |  |               |              |                                      |                                      |  |  | 00                  | ALUMINUM ELECTROLYTIC CAP<br>ALUMINUM ELECTROLYTIC CAP  | 47uF   | EMZJ250ADA471MJA0G<br>25SVPF47M  | nippon kemi-con<br>sanyo  |  | 25V<br>25V        |  |
| 4 3   | E20 E22<br>JP1 JP3 JP4  |  |               | <del> </del> | lacksquare                           |                                      |  |  | O ×                 | ALUMINUM ELECTROLYTIC CAP 2 Pin header  | HWP-2P-G   | 10SVPC270M<br>HWP-2P-G   | mac8  |  | 10V               |  |
| 6 0   | JP2<br>LED1 LED2 LED4 LED5  | 5 LED6   |               |              |                                      |                                      |  |  | O<br>×<br>×         | 3 Pin header RF MMCX CONNECTOR LED  | HWP-3P-G<br>82_MMCX-50-0-18/111_OE<br>SML-P11MT  | HWP-3P-G<br>82_MMCX-50-0-18/111_OE<br>SML-P11MTT86   | mac8<br>huber+suhner<br>rohm  |  |                   |  |
| 8 0   | LED8 LED9 LED11 LED1  |  | LED15         |              |                                      |                                      |  |  |                     | LED   | PG1102W  | PG1102W-TR   | stanley   |  |                   |  |
| 9 0   |   |  |               |              |                                      |                                      |  |  | ×                   | Inductor<br>Inductor  | 1.0uH<br>0.15uH  | MLF1608A1R0JTD25<br>SPM3020T-R15M-CA02   | tdk<br>tdk  | 1608<br>3230   | 5%                |  |
| 0 2 0   |   |  |               |              |                                      |                                      |  |  | ×                   | Ferrite Chip Beads<br>Inductor  | 600ohm@100MHz<br>120ohm@100MHz   | BLM15AX601SN1<br>BLM15BB121SN1   | murata<br>murata  | 1005   |                   |  |
| 3 0<br>4 0<br>5 0   |   |  |               |              |                                      |                                      |  |  | ×<br>0<br>0         | Inductor Ferrite Chip Beads Ferrite Chip Beads  | 600ohm@100MHz<br>BLM18PG330SN1D<br>BLM18AG102SN1D  | BLM18AG601SN1<br>BLM18PG330SN1D<br>BLM18AG102SN1D  | murata<br>murata  | 1608   |                   |  |
|   | L31 L32 L33   |  |               |              |                                      |                                      |  |  | ×                   | EMI-FIL   | EMI-FIL NFW31SP107X1E4   |  | mijrata   |  |                   |  |
| 8 0   |   |  |               |              |                                      |                                      |  |  | 0                   | EMI-FIL   | NFE31  | NFW31SP107X1E4L<br>NFE31PT222Z1E9L   | murata<br>murata<br>murata  |  |                   |  |
|   |   |  |               |              |                                      |                                      |  |  | ×                   |   |  | NFE31PT222Z1E9L<br>DDFCUL0630-H-R12M<br>DDFCUL0630-R12MB   | murata<br>murata<br>toko  | 7366   |                   |  |
| 0   | )   |  |               |              |                                      |                                      |  |  |                     | EMI-FIL   | NFE31  | NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT  | murata<br>murata<br>toko<br>toko or<br>tdk  | 7366<br>2016   |                   |  |
| 0   | )<br>   |  |               |              |                                      |                                      |  |  | × × ×               | EMI-FIL Inductor Inductor Inductor  | NFE31<br>0.12uH<br>0.24uH<br>0.33uH  | NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT   | murata murata toko toko or tdk toko or tdk  | 2016<br>2016   |                   |  |
| 0<br>2<br>5   | L51 L52<br>L61 L62 L63 L65<br>L64   | L67  |               |              |                                      |                                      |  |  | ×                   | EMI-FIL Inductor Inductor Inductor Inductor Inductor  | NFE31<br>0.12uH<br>0.24uH  | NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT   | murata<br>murata<br>toko<br>toko or<br>tdk  | 2016   |                   |  |
| 0<br>2<br>5<br>1<br>7   | L61 L62 L63 L65<br>L64  | L72  |               |              |                                      |                                      |  |  | × × × × × ×         | EMI-FIL Inductor Inductor Inductor Inductor Inductor Common Mode Filters Common Mode Filters Inductor   | NFE31<br>0.12uH<br>0.24uH<br>0.33uH<br>1.5uH<br>TCE0806G-900-2P<br>TCE1608G-900-4P<br>2.0nH        | NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M TCE0806G-900-2P TCE1608G-900-4P LQG15HH2N0S02   | murata murata toko  toko or tdk toko or tdk toko or tdk toko toko tdk murata                        | 2016<br>2016<br>109100<br>1005                                     |                   |  |
| 0<br>2<br>5<br>3<br>1<br>4<br>7   | L61 L62 L63 L65<br>L64  | L72  | NR12          |              |                                      |                                      |  |  | × × × × × × O       | EMI-FIL Inductor Inductor Inductor Inductor Common Mode Filters Common Mode Filters Inductor Chip Network resistor  | NFE31<br>0.12uH<br>0.24uH<br>0.33uH<br>1.5uH<br>TCE0806G-900-2P<br>TCE1608G-900-4P<br>2.0nH        | NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M TCE0806G-900-2P TCE1608G-900-4P LQG15HH2N0S02 MNR14E0APJ103   | murata murata toko toko or tdk toko or tdk toko or tdk toko toko tdk toko tdk toko                  | 2016<br>2016<br>109100<br>1005<br>1608×4                           |                   |  |
| 0<br>2<br>5<br>1<br>7<br>6  | L61 L62 L63 L65<br>L64  | L72<br>NR9   | NR12          |              |                                      |                                      |  |  | × × × × × ×         | EMI-FIL Inductor Inductor Inductor Inductor Inductor Common Mode Filters Common Mode Filters Inductor   | NFE31<br>0.12uH<br>0.24uH<br>0.33uH<br>1.5uH<br>TCE0806G-900-2P<br>TCE1608G-900-4P<br>2.0nH        | NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M TCE0806G-900-2P TCE1608G-900-4P LQG15HH2N0S02   | murata murata toko  toko or tdk toko or tdk toko or tdk toko toko tdk murata                        | 2016<br>2016<br>109100<br>1005                                     |                   |  |
| 0<br>22<br>5<br>1<br>7<br>6<br>0<br>6   | L61 L62 L63 L65 L64 L68 L69 L70 L71 L108 L109 NR1 NR4 NR5 NR8 NR2 NR3 NR6 NR7 NR11 NI R40 R41 R42 R43 | NR10 R44 I   | R45           |              |                                      |                                      |  |  | × × × × × × × × × × | EMI-FIL Inductor Inductor Inductor Inductor Common Mode Filters Common Mode Filters Inductor Chip Network resistor  | NFE31<br>0.12uH<br>0.24uH<br>0.33uH<br>1.5uH<br>TCE0806G-900-2P<br>TCE1608G-900-4P<br>2.0nH<br>10k | NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M TCE0806G-900-2P TCE1608G-900-4P LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ473                               | murata murata toko toko or tdk toko or tdk toko or tdk toko toko rohm                               | 2016<br>2016<br>109100<br>1005<br>1608×4<br>1608×4                 |                   |  |
| 0<br>22<br>5<br>1<br>7<br>6<br>0<br>6   | L61   | NR9 I NR10 R44 I R75 R130  |               |              |                                      |                                      |  |  | × × × × × × O × O   | EMI-FIL Inductor Inductor Inductor Inductor Inductor Common Mode Filters Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor         | NFE31 0.12uH 0.24uH 0.33uH 1.5uH TCE0806G-900-2P TCE1608G-900-4P 2.0nH 10k 47k 100k                | NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M TCE0806G-900-2P TCE1608G-900-4P LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ103 MNR14E0APJ104 NCU18XH103F6SRB | murata murata toko toko or tdk toko or tdk toko ot tdk toko toko tdk toko tdk rohm rohm rohm murata | 2016<br>2016<br>109100<br>1005<br>1608x4<br>1608x4<br>1608x4       |                   |  |
| 5<br>1<br>7<br>6<br>0<br>6<br>1<br>126  | L61   | NR9 I NR10 R44 I R75 I R130 R161 R204  | R45           |              |                                      |                                      |  |  | × × × × × × O × O   | EMI-FIL Inductor Inductor Inductor Inductor Inductor Common Mode Filters Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor         | NFE31 0.12uH 0.24uH 0.33uH 1.5uH TCE0806G-900-2P TCE1608G-900-4P 2.0nH 10k 47k 100k                | NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M TCE0806G-900-2P TCE1608G-900-4P LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ103 NRN14E0APJ104 NCU18XH103F6SRB | murata murata toko toko or tdk toko or tdk toko ot tdk toko toko tdk toko tdk rohm rohm rohm murata | 2016<br>2016<br>109100<br>1005<br>1608x4<br>1608x4<br>1608x4       |                   |  |
| 5<br>1<br>7<br>6<br>0<br>6<br>1<br>126  | L61   | NR10  R44   R75   R130   R161   R218   R225  | R45           |              |                                      |                                      |  |  | × × × × × × O × O   | EMI-FIL Inductor Inductor Inductor Inductor Inductor Common Mode Filters Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor         | NFE31 0.12uH 0.24uH 0.33uH 1.5uH TCE0806G-900-2P TCE1608G-900-4P 2.0nH 10k 47k 100k                | NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M TCE0806G-900-2P TCE1608G-900-4P LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ103 NRN14E0APJ104 NCU18XH103F6SRB | murata murata toko toko or tdk toko or tdk toko ot tdk toko toko tdk toko tdk rohm rohm rohm murata | 2016<br>2016<br>109100<br>1005<br>1608x4<br>1608x4<br>1608x4       |                   |  |
| 0 0 1 2 2 5 5 3 1 1 4 7 7 6 6 6 0 7 6 6 3 1 2 6 1 2 6   | L61   | NR9 I NR10 NR10 NR10 R44 I R75 R130 R130 R214 R225 R225 R225 R230 R230 R381  | R45           |              |                                      |                                      |  |  | × × × × × × O × O   | EMI-FIL Inductor Inductor Inductor Inductor Inductor Common Mode Filters Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor         | NFE31 0.12uH 0.24uH 0.33uH 1.5uH TCE0806G-900-2P TCE1608G-900-4P 2.0nH 10k 47k 100k                | NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M TCE0806G-900-2P TCE1608G-900-4P LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ103 NRN14E0APJ104 NCU18XH103F6SRB | murata murata toko toko or tdk toko or tdk toko ot tdk toko toko tdk toko tdk rohm rohm rohm murata | 2016<br>2016<br>109100<br>1005<br>1608x4<br>1608x4<br>1608x4       |                   |  |
| 0<br>2<br>5<br>3 1<br>7 7<br>6 6<br>7 6<br>8 1<br>126   | L61   | R44   R75   R130   R161   R204   R218   R225   R230   R235   R381   R415   | R45           |              |                                      |                                      |  |  | × × × × × × O × O   | EMI-FIL Inductor Inductor Inductor Inductor Inductor Common Mode Filters Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor         | NFE31 0.12uH 0.24uH 0.33uH 1.5uH TCE0806G-900-2P TCE1608G-900-4P 2.0nH 10k 47k 100k                | NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M TCE0806G-900-2P TCE1608G-900-4P LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ103 NRN14E0APJ104 NCU18XH103F6SRB | murata murata toko toko or tdk toko or tdk toko ot tdk toko toko tdk toko tdk rohm rohm rohm murata | 2016<br>2016<br>109100<br>1005<br>1608x4<br>1608x4<br>1608x4       |                   |  |
| 0 0 1 2 2 5 5 3 1 1 7 7 5 6 6 5 0 7 6 6 3 1 2 6   | L61   | R44 R75 R130 R161 R218 R225 R225 R230 R235 R381 R415   | R45           |              |                                      |                                      |  |  | × × × × × × O × O   | EMI-FIL Inductor Inductor Inductor Inductor Inductor Common Mode Filters Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor         | NFE31 0.12uH 0.24uH 0.33uH 1.5uH TCE0806G-900-2P TCE1608G-900-4P 2.0nH 10k 47k 100k                | NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M TCE0806G-900-2P TCE1608G-900-4P LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ103 NRN14E0APJ104 NCU18XH103F6SRB | murata murata toko toko or tdk toko or tdk toko ot tdk toko toko tdk toko tdk rohm rohm rohm murata | 2016<br>2016<br>109100<br>1005<br>1608x4<br>1608x4<br>1608x4       |                   |  |
| 0<br>2<br>5<br>11<br>7<br>6<br>0<br>6   | L61   | R44   R75   R130   R161   R218   R225   R230   R235   R381   R415   R415   R669   R636   R636 | R45           |              |                                      |                                      |  |  | × × × × × × O × O   | EMI-FIL Inductor Inductor Inductor Inductor Inductor Common Mode Filters Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor         | NFE31 0.12uH 0.24uH 0.33uH 1.5uH TCE0806G-900-2P TCE1608G-900-4P 2.0nH 10k 47k 100k                | NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M TCE0806G-900-2P TCE1608G-900-4P LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ103 NRN14E0APJ104 NCU18XH103F6SRB | murata murata toko toko or tdk toko or tdk toko ot tdk toko toko tdk toko tdk rohm rohm rohm murata | 2016<br>2016<br>109100<br>1005<br>1608x4<br>1608x4<br>1608x4       |                   |  |
| 5<br>1<br>7<br>6<br>0<br>6<br>1<br>126  | L61   | NR9 I NR10 NR10 NR10 NR10 NR10 NR10 NR10 NR161 R218 R225 R230 R230 R235 R235 R381 R415 R381 R415 R365 R6641 R655   | R45           |              |                                      |                                      |  |  | × × × × × × O × O   | EMI-FIL Inductor Inductor Inductor Inductor Inductor Common Mode Filters Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor         | NFE31 0.12uH 0.24uH 0.33uH 1.5uH TCE0806G-900-2P TCE1608G-900-4P 2.0nH 10k 47k 100k                | NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M TCE0806G-900-2P TCE1608G-900-4P LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ103 NRN14E0APJ104 NCU18XH103F6SRB | murata murata toko toko or tdk toko or tdk toko ot tdk toko toko tdk toko tdk rohm rohm rohm murata | 2016<br>2016<br>109100<br>1005<br>1608x4<br>1608x4<br>1608x4       |                   |  |
| 0<br>2<br>5<br>1<br>1<br>7<br>6<br>6<br>0<br>7<br>6<br>8<br>1<br>1<br>1<br>2<br>7<br>6<br>8<br>1<br>1<br>1<br>1<br>1<br>1<br>2<br>6<br>1<br>1<br>1<br>2<br>6<br>1<br>1<br>2<br>6<br>1<br>1<br>2<br>6<br>1<br>1<br>2<br>6<br>1<br>1<br>2<br>6<br>1<br>1<br>2<br>6<br>1<br>1<br>2<br>6<br>1<br>1<br>2<br>6<br>1<br>1<br>2<br>6<br>1<br>1<br>2<br>6<br>1<br>1<br>2<br>6<br>1<br>1<br>2<br>6<br>1<br>1<br>2<br>6<br>1<br>1<br>2<br>6<br>1<br>1<br>2<br>6<br>1<br>1<br>2<br>6<br>1<br>1<br>2<br>1<br>2 | L61   | NR9 I NR10 NR10 NR10 NR10 NR10 NR10 NR10 NR10  | R45           |              |                                      |                                      |  |  | × × × × × × O × O   | EMI-FIL Inductor Inductor Inductor Inductor Inductor Common Mode Filters Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor         | NFE31 0.12uH 0.24uH 0.33uH 1.5uH TCE0806G-900-2P TCE1608G-900-4P 2.0nH 10k 47k 100k                | NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M TCE0806G-900-2P TCE1608G-900-4P LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ103 NRN14E0APJ104 NCU18XH103F6SRB | murata murata toko toko or tdk toko or tdk toko ot tdk toko toko tdk toko tdk rohm rohm rohm murata | 2016<br>2016<br>109100<br>1005<br>1608x4<br>1608x4<br>1608x4       |                   |  |
| 0<br>2<br>5<br>1<br>7<br>6<br>0<br>6<br>1<br>126  | L61   | R44 R75 R30 R31 R415 R655 R664 R680 R689 R694  | R45           |              |                                      |                                      |  |  | × × × × × × O × O   | EMI-FIL Inductor Inductor Inductor Inductor Inductor Common Mode Filters Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor         | NFE31 0.12uH 0.24uH 0.33uH 1.5uH TCE0806G-900-2P TCE1608G-900-4P 2.0nH 10k 47k 100k                | NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M TCE0806G-900-2P TCE1608G-900-4P LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ103 NRN14E0APJ104 NCU18XH103F6SRB | murata murata toko toko or tdk toko or tdk toko ot tdk toko toko tdk toko tdk rohm rohm rohm murata | 2016<br>2016<br>109100<br>1005<br>1608x4<br>1608x4<br>1608x4       |                   |  |
| 2 5<br>3 1<br>4 7<br>5 6<br>6 0<br>6 0<br>7 6<br>8 1<br>126   | L61   | R44 R75 R130 R161 R218 R225 R230 R230 R230 R230 R230 R230 R230 R230  | R45<br>R76    |              |                                      |                                      |  |  | × × × × × × O × O   | EMI-FIL Inductor Inductor Inductor Inductor Inductor Common Mode Filters Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor         | NFE31 0.12uH 0.24uH 0.33uH 1.5uH TCE0806G-900-2P TCE1608G-900-4P 2.0nH 10k 47k 100k                | NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M TCE0806G-900-2P TCE1608G-900-4P LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ103 NRN14E0APJ104 NCU18XH103F6SRB | murata murata toko toko or tdk toko or tdk toko ot tdk toko toko tdk toko tdk rohm rohm rohm murata | 2016<br>2016<br>109100<br>1005<br>1608x4<br>1608x4<br>1608x4       |                   |  |
| 0 0 2 2 5 5 3 1 1 7 7 6 6 6 0 0 7 6 6 3 1 1 1 2 6   | L61   | R44 R75 R130 R161 R218 R225 R230 R230 R230 R230 R230 R230 R230 R230  | R45<br>R76    |              | R39                                  |                                      | R155 R   |  | × × × × × O × O     | EMI-FIL Inductor Inductor Inductor Inductor Inductor Common Mode Filters Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor         | NFE31 0.12uH 0.24uH 0.33uH 1.5uH TCE0806G-900-2P TCE1608G-900-4P 2.0nH 10k 47k 100k                | NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M TCE0806G-900-2P TCE1608G-900-4P LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ103 MNR14E0APJ104 NCU18XH103F6SRB | murata murata toko toko or tdk toko or tdk toko ot tdk toko toko tdk toko tdk rohm rohm rohm murata | 2016<br>2016<br>109100<br>1005<br>1608x4<br>1608x4<br>1608x4       |                   |  |
| 0 0 2 2 5 5 3 1 1 7 7 6 6 6 0 0 7 6 6 3 1 1 1 2 6   | L61   | R44 R75 R130 R161 R218 R225 R230 R230 R230 R230 R230 R230 R230 R230  | R45<br>R76    |              |                                      | R449                                 | R453 R   | R457 R459 R472 R604                              | × × × × × O × O     | EMI-FIL Inductor Inductor Inductor Inductor Inductor Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor Chip resistor Chip resistor | NFE31 0.12uH 0.24uH 0.33uH 1.5uH TCE0806G-900-2P TCE1608G-900-4P 2.0nH 10k 47k 100k 10k 0          | NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M TCE0806G-900-2P TCE1608G-900-4P LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ104 NCU18XH103F6SRB MCR01MZPJ000  | murata murata toko toko or tdk toko or tdk toko or tdk toko murata rohm rohm murata rohm            | 2016<br>2016<br>109100<br>1005<br>1608x4<br>1608x4<br>1608<br>1005 |                   |  |
| 0 0 1 2 2 5 5 3 1 1 4 7 7 6 6 6 0 0 7 6 6 3 1 2 6 6   | L61   | R44 R75 R130 R161 R218 R225 R230 R230 R230 R230 R230 R230 R230 R230  | R45<br>R76    |              | R617<br>R622                         | R449<br>R618<br>R623                 | R453 R<br>R619 R<br>R626 R                               | R457 R459<br>R472 R604<br>R620 R621<br>R627 R628 | × × × × × O × O     | EMI-FIL Inductor Inductor Inductor Inductor Inductor Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor Chip resistor Chip resistor | NFE31 0.12uH 0.24uH 0.33uH 1.5uH TCE0806G-900-2P TCE1608G-900-4P 2.0nH 10k 47k 100k 10k 0          | NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M TCE0806G-900-2P TCE1608G-900-4P LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ104 NCU18XH103F6SRB MCR01MZPJ000  | murata murata toko toko or tdk toko or tdk toko or tdk toko murata rohm rohm murata rohm            | 2016<br>2016<br>109100<br>1005<br>1608x4<br>1608x4<br>1608<br>1005 |                   |  |
| 0<br>2<br>5<br>1<br>7<br>6<br>0<br>6<br>1<br>126  | L61   | R44 R75 R130 R161 R218 R225 R230 R230 R230 R230 R230 R230 R230 R230  | R45<br>R76    |              | R617<br>R622<br>R629<br>R656<br>R667 | R449<br>R618<br>R623<br>R643<br>R657 | R453 R<br>R619 R<br>R626 R<br>R644 R<br>R662 R<br>R671 R | R457 R459 R472 R604 R620 R621 R628 R651 R652     | × × × × × O × O     | EMI-FIL Inductor Inductor Inductor Inductor Inductor Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor Chip resistor Chip resistor | NFE31 0.12uH 0.24uH 0.33uH 1.5uH TCE0806G-900-2P TCE1608G-900-4P 2.0nH 10k 47k 100k 10k 0          | NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M TCE0806G-900-2P TCE1608G-900-4P LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ104 NCU18XH103F6SRB MCR01MZPJ000  | murata murata toko toko or tdk toko or tdk toko or tdk toko murata rohm rohm murata rohm            | 2016<br>2016<br>109100<br>1005<br>1608x4<br>1608x4<br>1608<br>1005 |                   |  |

|                   | R259                       |                     |              | R602         | R616         |      |      |                    |          |                 |   |  |   |  |                      |          |                |   |
|-------------------|----------------------------|---------------------|--------------|--------------|--------------|------|------|--------------------|----------|-----------------|---|--|---|--|----------------------|----------|----------------|---|
| 102               | R630                       | R672                | R675         |              |              |      |      | R22 R412           | R631     | 0               | Chip resistor   | 0*   | MCR03EZPJ000  | rohm   | 1608                 |          |                |   |
| 103<br>104        | 0<br>7 R168                |                     | R452         | R456         | R458         |      |      | R144 R145          |          | 0               | Chip resistor<br>Chip resistor                                      | 0*<br>0.005  | MCR18EZPJ000<br>PMR10EZPFU5L00  | rohm<br>rohm   | 3216<br>2012         |          | 1%             |   |
| 105<br>106        | R478<br>0<br>3 R380        |                     | R432         |              |              |      |      | R169               |          | O<br>×          | Chip resistor Chip resistor   | 0.005*<br>0.005                                      | PMR10EZPFU5L00<br>PMR18EZPFU5L00  | rohm<br>rohm   | 2012<br>3216         |          | 1%<br>1%       |   |
| 107<br>108        | 1 R417<br>10 R66           | R67                 | R68          |              | R70          | R71  |      |                    |          | ×<br>O          | Chip resistor Chip resistor   | 0.005<br>1   | PMR100HZPFU5L00<br>MCR01MZPFL1R00   | rohm<br>rohm   | 6432<br>1005         |          | 1%<br>1%       |   |
| 109<br>110        | 1 R613                     | R/3                 | R372         | R614         |              |      |      |                    |          | ×               | Chip resistor Chip resistor   | 2.2<br>22  | MCR01MZPFL2R20<br>MCR01MZPJ220  | rohm<br>rohm   | 1005<br>1005         |          | 1%             |   |
| 111<br>112        | 5 R334<br>0                |                     | R346         | R743         | R744         |      |      | R328 R788          |          | 0               | Chip resistor Chip resistor   | 22*  | MCR03EZPJ220<br>MCR03EZPJ220  | rohm<br>rohm   | 1608<br>1608         |          | 40/            |   |
| 113<br>114        | 1 R268<br>13 R611<br>R9    | R612                |              | R797         | R798         | R799 |      |                    |          | ×<br>O          | Chip resistor Chip resistor   | 24.0<br>33   | MCR01MZPF24R0<br>MCR01MZPJ330   | rohm<br>rohm   | 1005<br>1005         |          | 1%             |   |
| 115<br>116        | R800<br>0                  |                     |              |              |              |      |      | R78                |          | O<br>×          |   | 49.9*<br>51.0  | MCR01MZPF49R9   | rohm   | 1005                 |          | 1%<br>1%       |   |
| 117<br>118        | 1 R269<br>3 R239<br>0      | R240                | R241         |              |              |      |      |                    |          | 0<br>×          | Chip resistor Chip resistor Chip resistor                           | 75.0<br>120  | MCR01MZPF51R0<br>MCR01MZPF75R0<br>MCR01MZPJ121                            | rohm<br>rohm<br>rohm                                 | 1005<br>1005<br>1005 |          | 1%             |   |
| 119<br>120<br>121 | 2 R299<br>0<br>7 R52       |                     | R54          | R55          | R56          | R57  |      | R436               |          | ×               | Chip resistor Chip resistor Chip resistor                           | 130<br>160<br>200                                    | MCR01MZPJ131<br>MCR01MZPF1600<br>MCR01MZPF2000                            | rohm<br>rohm<br>rohm                                 | 1005<br>1005<br>1005 |          | 1%<br>1%       |   |
| 122               | 12 R91                     | R59<br>R92          | R94          | R95          | R99          | R101 |      |                    |          | 0               | Chip resistor   | 240.0  | MCR01MZPF2400   | rohm   | 1005                 |          | 1%             |   |
| 123               | R102<br>R115               | R103                | R108         | R109         | R110         |      |      | R93 R100 R107 R111 |          | 0               | Chip resistor   | 240.0*   | MCR01MZPF2400   | rohm   | 1005                 |          | 1%             |   |
| 124<br>125        | 1 R238<br>0                |                     |              |              |              |      |      |                    |          | Ŏ<br>×          | Chip resistor Chip resistor   | 536<br>620   | MCR03EZPF5360<br>MCR01MZPF6200  | rohm<br>rohm   | 1608<br>1005         |          | 1%<br>1%       |   |
| 126<br>127        | 40 R29<br>R142             | R789<br>R30<br>R143 |              |              |              | R141 |      |                    |          | 00              | Chip resistor Chip resistor   | 1k   | MCR01MZPF1001<br>MCR01MZPJ102   | rohm<br>rohm   | 1005<br>1005         |          | 1%             |   |
|                   | R190<br>R257               | R274                | R327         | R329         | R358         |      |      |                    |          |                 |   |  |   |  |                      |          |                |   |
|                   | R359<br>R420<br>R464       | R421                | R428         |              | R463         |      |      |                    |          |                 |   |  |   |  |                      |          |                |   |
| 128               | R707                       | R710                | R741         | R742         | R747         |      |      | R176 R177 R178     | R632     | 0               | Chip resistor   | 1k*  | MCR01MZPJ102  | rohm   | 1005                 |          |                |   |
| 129<br>130        |                            | R63<br>R12          | R13          | R14          | R82          | R133 |      | R465 R734 R735     | R/36     | ×               | Chip resistor Chip resistor   | 1.62k<br>2k  | MCR01MZPF1621<br>MCR01MZPJ202   | rohm<br>rohm   | 1005<br>1005         |          | 1%             |   |
|                   | R134<br>R181               |                     |              |              |              | R186 |      |                    |          |                 |   |  |   |  |                      |          |                |   |
|                   | R261<br>R365               |                     | R615         |              | R674         |      |      |                    |          |                 |   |  |   |  |                      |          |                |   |
| 131               | R676<br>R755               |                     |              | R753<br>R808 | R754         |      |      |                    |          | 0               | Chip resistor   | 2k*  | MCR01MZPJ202  | rohm   | 1005                 |          |                |   |
| 132<br>133        | 0<br>3 R61                 | R62                 | R64          |              |              |      |      |                    |          | O<br>×          | Chip resistor Chip resistor   | 2k<br>4.02k  | MCR03EZPJ202<br>MCR01MZPF4021   | rohm<br>rohm   | 1608<br>1005         |          | 1%             |   |
| 134               | 19 R34<br>R148<br>R191     | R149                | R150         | R182         | R188         |      |      |                    |          |                 | Chip resistor   | 4.7k   | MCR01MZPJ472  | rohm   | 1005                 |          |                | 1 |
| 135               | R351                       | R355                | R805         |              |              |      |      | D170               |          | 0               | Chip resistor   | 4.7k*  | MCR01MZPJ472  | rohm   | 1005                 |          | 4.0/           |   |
| 136<br>137<br>138 | 5 R414<br>81 R2            |                     |              |              |              | R25  | R28  | R173               |          | ×               | Chip resistor Chip resistor Chip resistor                           | 4.99k*<br>6.8k<br>10k                                | MCR01MZPF4991<br>MCR01MZPF6801<br>MCR01MZPJ103                            | rohm<br>rohm<br>rohm                                 | 1005<br>1005<br>1005 |          | 1%<br>1%       |   |
|                   | R81<br>R152<br>R167        | R153                | R154         | R156         | R165         |      |      |                    |          |                 |   |  |   |  |                      |          |                |   |
|                   | R198<br>R203               | R199<br>R205        | R200<br>R206 | R201<br>R207 | R202<br>R208 |      |      |                    |          |                 |   |  |   |  |                      |          |                |   |
|                   | R209<br>R244<br>R313       |                     | R249         |              | R258         |      |      |                    |          |                 |   |  |   |  |                      |          |                |   |
|                   | R337<br>R374               | R341<br>R387        | R350<br>R437 | R352<br>R440 | R371<br>R461 |      | R454 |                    |          |                 |   |  |   |  |                      |          |                | 1 |
|                   | R610<br>R697<br>R740       | R730                | R731         | R732         | R733         |      | R767 |                    |          |                 |   |  |   |  |                      |          |                |   |
| 139               | R770<br>0                  | R769                | R785         | R786         | R793         | R794 | R809 | R5 R85 R87 R413    | R438     | 0               | Chip resistor   | 10k*   | MCR01MZPJ103  | rohm   | 1005                 |          |                |   |
| 140               | 5 R50<br>R128              | R116                |              | R118         | R119         |      |      | R439 R768 R771     |          | 0               | Chip resistor   | 10k  | MCR03EZPJ103  | rohm   | 1608                 |          |                |   |
| 141<br>142<br>143 | 1 R320<br>0                |                     | DAEI         | DAFE         |              |      |      |                    |          | ×               | Chip resistor Chip resistor   | 12.1k<br>14k<br>15k                                  | MCR01MZPF1212<br>MCR01MZPF1402  | rohm<br>rohm   | 1005<br>1005<br>1005 |          | 1%<br>1%<br>1% |   |
| 144<br>145        | 2 R370<br>2 R388           | R373                |              | K433         |              |      |      |                    |          | ×<br>O<br>×     | Chip resistor Chip resistor Chip resistor                           | 20k<br>22.1k   | MCR01MZPF1502<br>MCR01MZPJ203<br>MCR01MZPF2212                            | rohm<br>rohm<br>rohm                                 | 1005<br>1005<br>1005 |          | 1%             |   |
| 146<br>147<br>148 | 1 R83<br>1 R264<br>1 R406  |                     |              |              |              |      |      |                    |          | ×               | Chip resistor Chip resistor Chip resistor                           | 24k<br>27k<br>39k                                    | MCR01MZPF2402<br>MCR03EZPJ273<br>MCR01MZPF3902                            | rohm<br>rohm<br>rohm                                 | 1005<br>1608<br>1005 |          | 1%             |   |
| 149               | 13 R508<br>R815            | R811<br>R816        | R817         |              |              |      |      | R822 R823          |          | ×               | Chip resistor   | 47k  | MCR01MZPJ473  | rohm   | 1005                 |          | 1 /0           |   |
| 150<br>151        | R820<br>0                  | R821                | R824         |              |              |      |      |                    |          | ×               | Chip resistor Chip resistor   | 47k<br>47k*  | MCR03EZPJ473<br>MCR03EZPJ473  | rohm<br>rohm   | 1608<br>1608         |          |                |   |
| 152<br>153        | 0<br>11 R10                |                     |              |              |              |      |      | R174               |          | ×               | Chip resistor Chip resistor   | 49.9k*<br>100k                                       | MCR01MZPF4992<br>MCR01MZPJ104   | rohm<br>rohm   | 1005<br>1005         |          | 1%             |   |
| 154               | R194<br>1 R405             | R715                | R266         | R2/1         | R288         |      |      |                    |          | ×               | Chip resistor   | 100k   | MCR01MZPF1003   | rohm   | 1005                 |          | 1%             |   |
| 155<br>156        | 0<br>3 R79                 |                     | R393         | R787         |              |      |      | R172               |          | ×               | Chip resistor   | 100k*<br>200k  | MCR01MZPF1003<br>MCR01MZPF2003  | rohm<br>rohm   | 1005<br>1005         |          | 1%<br>1%       |   |
| 157<br>158<br>159 | 3 SW3<br>2 SW29            | SW30                |              |              |              |      |      |                    |          | 0<br>0          |   | IM<br>CHS-01A<br>CHS-02A                             | MCR01MZPF1004<br>CHS-01A or CHS-01A1<br>CHS-02A or CHS-02A1               | rohm<br>copal<br>copal                               | 1005                 |          | 1 /0           |   |
| 160<br>161<br>162 | 2 SW4<br>3 SW1<br>3 SW10   | SW2                 | SW31         |              |              |      |      |                    |          | 000             | Dip Switch Dip Switch Dip Switch                                    | CHS-04A<br>CHS-06A<br>CHS-08A                        | CHS-04A or CHS-04A1<br>CHS-06A or CHS-06A1<br>CHS-08A or CHS-08A1         | copal<br>copal<br>copal                              |                      |          |                |   |
| 163<br>164        | 5 SW5<br>3 SW13            | SW6<br>SW14         | SW7<br>SW16  | SW9          | SW15         |      |      |                    |          | 00              | Dip Switch Dip Switch   | CJS-1201A<br>CAS-120A1                               | CJS-1201A<br>CAS-120A1  | copal<br>copal                                       |                      |          |                |   |
| 165<br>166<br>167 | 3 SW20<br>1 SW23<br>1 SW27 |                     | SW22         |              |              |      |      |                    |          | 000             | Tact Switch Toggle switch Tact Switch                               | B3U-1100PM<br>SWITCH(G-12AP)<br>B3F-1000             | B3U-1100PM<br>G12AP<br>B3F-1000   | omron<br>nkk<br>omron                                |                      |          |                |   |
| 168<br>169        | 5 TH1<br>5 TP1             | TH2<br>TP2          | TP3          |              |              | TP8  |      |                    |          | -               | Through Hole<br>Test pin  | Through Hole<br>HK-2-G                               | 0.6-1.1-1.2<br>HK-2-G   | –<br>mac8  |                      |          |                |   |
| 170<br>171        | TR9                        | TR4<br>TR10         | TR5<br>TR11  | TR6<br>TR12  | TR13         |      |      |                    |          |                 | Test pin<br>MOSFET  | ST-4-2(UM)<br>RE1C001UNTCL                           | ST-4-2(UM)<br>RE1C001UNTCL  | mac8<br>rohm   |                      |          |                |   |
| 170               | TR16<br>TR27               | TR20                | TR21         | TR22<br>TR30 | TR26         |      |      |                    |          |                 | soc   | D_CorH20:D at 11-4/- 1 50\/D\                        | D-CarH3-SID as D. Ca-M40 CID  | range  |                      |          |                |   |
| 172<br>173        |                            | U43                 |              | U25<br>U46   | U26          | U34  |      |                    |          |                 | SOC<br>2-input AND Gate   | R-CarH3SiP_pin_list(rev1.52)(B)<br>HD74LV1GT08A      | R-CarH3-SIP or R-CarM3-SiP<br>HD74LV1GT08ACME                             | renesas<br>renesas                                   |                      |          |                |   |
| 174               | U70<br>1 U4                |                     | U98          |              |              |      |      |                    |          | ×               | Regulator   | TEST_IC  | LT3021ES8#PBF<br>S25FS128SAGMFV10 or                                      | lineartechnology<br>Cypress                          |                      |          |                |   |
| 175<br>176        | 1 U5<br>1 U6               |                     |              |              |              |      |      |                    |          | ×               | SPI Flash Memory<br>I/O Expander                                    | S25FS128SAGMFV10<br>PCA9654EDTR2G                    | S25FS128SAGMFI101<br>PCA9654EDTR2G  | (Spansion) on semiconductor                          |                      |          |                |   |
| 177<br>178<br>179 | 3 U7<br>0<br>1 U11         | U8                  | U9           |              |              |      |      | U10                |          | ×               | Voltage Level Translator Regulator Clock Generator                  | SN74AVC4T245PW<br>ADM7172ACPZ*<br>9FGV0841AKILF      | SN74AVC4T245PW<br>ADM7172ACPZ<br>9FGV0841AKILF                            | ti<br>analog devices<br>idt                          |                      |          |                |   |
| 180<br>181        | 1 U12<br>5 U13             |                     | U16          | U17          | U96          |      |      |                    |          | 00              | USB OTG charge pump<br>High side switch IC                          | MAX3355EEUD<br>BD82065FVJ                            | MAX3355EEUD<br>BD82065FVJ   | maxim<br>rohm  |                      |          |                |   |
| 182<br>183<br>184 | 2 U19<br>1 U21<br>1 U22    | U20                 |              |              |              |      |      |                    |          | 0<br>×          | High side switch IC Regulator eMMC                                  | MIC94091YC6<br>ADP3339AKCZ-3.3-R7<br>KLMBG4GESD-B031 | MIC94091YC6<br>ADP3339AKCZ-3.3-R7<br>KLMBG4GESD-B03P or SM662PXB AB 00922 | micrel<br>analog devices<br>samsung or smi           |                      |          |                |   |
| 185<br>186        | 1 U24<br>0                 |                     |              |              |              |      |      |                    |          | 00              | Video DAC<br>HDMI Companion Chip                                    | ADV7123KSTZ140<br>TPD12S016PWR                       | ADV7123KSTZ140<br>TPD12S016PWR  | analog devices<br>ti                                 |                      |          |                |   |
| 187<br>188<br>189 | 1 U29<br>1 U30<br>1 U31    |                     |              |              |              |      |      |                    |          | ×<br>0<br>×     | PWM to VOUT DAC<br>Regulator<br>HDMI Receiver                       | LTC2644CMS-L8<br>ADP3338AKCZ-3.3R7<br>ADV7482WBBCZ   | LTC2644CMS-L8#TRPBF<br>ADP3338AKCZ-3.3R7<br>ADV7482WBBCZ                  | lineartechnology<br>analog devices<br>analog devices |                      |          |                |   |
| 190<br>191<br>192 | 0<br>2 U33<br>1 U35        | U68                 |              |              |              |      |      |                    |          | ×               | Giga Ethernet Transceiver Voltage Level Translator 2-input AND Gate | KSZ9031RNX<br>TXS0102DCUT<br>HD74LV1G08A             | KSZ9031RNXCA<br>TXS0102DCUT<br>HD74LV1G08ACME                             | micrel<br>ti<br>renesas                              |                      |          |                |   |
| 193<br>194        | 1 U35<br>1 U37<br>1 U38    |                     |              |              |              |      |      |                    |          | ×               | Regulator<br>Audio CODEC  | ADP1706ARDZ-1.2-R7<br>AK4613VQ                       | ADP1706ARDZ-1.2-R7<br>AK4613VQ  | analog devices<br>asahikasei                         |                      |          |                |   |
| 195<br>196<br>197 | 0<br>1 U41<br>2 U42        | 1141                |              |              |              |      |      |                    |          | ×               | Audio Amp<br>Clock Synthesizer<br>USB TO UART BRIDGE                | MAX9812LEXT+T<br>CS2000-CP<br>CP2102                 | MAX9812LEXT+T<br>CS2000CP-CZZR<br>CP2102-GM                               | maxim<br>cirrus logic<br>silicon labs                |                      |          |                |   |
| 19/               | <u> ۲</u> ۱۱۵4۷            | U44                 | 1            | 1            | <u> </u>     | 1    | 1 1  | u                  | <u> </u> | <sub>II</sub> U | OOD TO UNK! DRIDGE  | OF 2102  | HOLETOE GIVI  | Homicoti Iabs  | u                    | <u>l</u> | 1              |   |

| 198  | 1 U47   |   |  |  |  |         |                            |                     |       |                | ×                                     | Dual Buck Controllers  | MAX16933  | MAX16933ATIS or MAX16933BATIS  | maxim  |  |   |      |      |
|--|---|---|--|--|--|---------|----------------------------|---------------------|-------|----------------|---------------------------------------|--|---|--|--|--|---|------|------|
| 199  | 4 U48   | U49   | U50  | U51  |  |         |                            |                     |       |                | ×                                     | Transistor   | TPC8048-H   | or MAX16933CATIS<br>TPC8048-HTE12LQ or TPC8048-H,LQ(CM   | toshiba  |  |   |      |      |
| 200<br>201<br>202  | 1 U57<br>2 U58  | 1150  |  |  |  |         |                            |                     |       |                | ×                                     | MOSFET EEPROM Current-Sense  | NP35N04YLG<br>BR24T01FVM-W<br>MAX9611AUB+   | NP35N04YLG<br>BR24T01FVM-W<br>MAX9611AUB+  | renesas<br>rohm<br>maxim   |  |   |      |      |
| 203<br>204   | 0   | 039   |  |  |  |         |                            |                     |       |                | ×                                     | Program Clock Generator MIPI SWITCH  | 5P49V5923A<br>FSA644BUCX  | 5P49V5923B506NLGI<br>FSA644BUCX  | idt<br>fairchild   |  |   |      |      |
| 205<br>206   | 1 U72   |   |  |  |  |         |                            |                     |       |                | ×                                     | POWER IC<br>Resistor   | BD9571MWF-M<br>100k   | BD9571MWF-M<br>PVM4A104C01R00  | rohm<br>murata   |  |   | 25%  |      |
| 207  | 1 X1  |   |  |  |  |         |                            |                     |       |                | ×                                     | crystal oscillator   | NZ2520SB[14.7456MHz/50ppm]  | NZ2520SB-14.7456MHz-RNA3043A<br>or SG-210SCBA 14.745600 MHz L  | ndk or<br>seiko epson  |  |   |      | 3.3V |
| 208  | 0   |   |  |  |  |         |                            |                     |       |                | ×                                     | crystal oscillator<br>crystal oscillator   | NX2016SA[16.6666MHz/10pF/15ppm]*<br>NZ2520SB[16.6666MHz/50ppm]  | NX2016SA-16.6666MHz-CHP-CZS-4<br>NZ2520SH-16.6666MHz-RNA3048B  | ndk<br>ndk or  |  |   |      | 1.8V |
| 210  | 1 X5  |   |  |  |  |         |                            |                     |       |                | ×                                     | crystal oscillator   | NZ2520SB[32.768kHz/50ppm]   | or SG-210SEBA 16.666600 MHz L<br>NZ2520SB-32.768kHz-RNA3045A<br>or KG2520M32K7680CM3E00  | seiko epson<br>ndk or<br>kyocera   |  |   |      | 1.8V |
| 211  | 1 X6  |   |  |  |  |         |                            |                     |       |                | ×                                     | crystal oscillator   | NX2016SA-[50.0000MHz/10pF/15ppm]  | NX2016SA-50MHz-CHP-CZS-38<br>or FA-2016AA[50MHz/10PF/15ppm]  | ndk or<br>seiko epson  |  |   |      |      |
| 212  | 3 X7  | Х9  | X23  |  |  |         |                            |                     |       |                | ×                                     | crystal oscillator   | NX2016SA[25MHz/20pF/15ppm]  | NX2016SA-25MHz-EXS00A-CS08742<br>or FA2016AA[25MHz/20PF/15ppm]   | ndk or<br>seiko epson  |  |   |      |      |
| 213  | 1 X8  |   |  |  |  |         |                            |                     |       |                | ×                                     | crystal oscillator   | NX2016SA[28.63636MHz/30pF/15ppm]  | NX2016SA-28.63636MHz-EXS00A-<br>CS08741  | ndk or   |  |   |      |      |
|  |   |   |  |  |  |         |                            |                     |       |                |                                       | or your occurace.  |   | or FA-2016AA<br>[28.63636MHz/30PF/15ppm]   | seiko epson  |  |   |      |      |
| 214  | 1 X10   |   |  |  |  |         |                            |                     |       |                | ×                                     | crystal oscillator   | NZ2520SB[125MHz/50ppm]  | NZ2520SB-125MHz-RNA3035C<br>or MC2520K125.000C16ESH<br>or SG-8003CG 125.000000MHz SC B   | ndk or<br>kyocera or   |  |   |      | 3.3V |
|  |   |   |  |  |  |         |                            |                     |       |                |                                       |  |   | or SG8101CGA 125.000000MHz<br>NZ2520SB-22.5792MHz-RNA3046A   | seiko epson<br>ndk or  |  |   |      |      |
| 215  | 1 X11<br>1 X12  |   |  |  |  |         |                            |                     |       |                |                                       | crystal oscillator   | NZ2520SB[22.5792MHz/50ppm] NX2016SA[24.576MHz/20pF/15ppm]   | or SG-210SCBA 22.579200 MHz Y<br>NX2016SA-24.576MHz-EXS00A-  | seiko epson<br>ndk or  |  |   |      | 3.3V |
| 217  | 2 X21   | X22   |  |  |  |         |                            |                     |       |                |                                       | crystal oscillato  | NZ2520SB[33MHz/50ppm]   | CS08743<br>NZ2520SB-33MHz-RNA3047A   | seiko epson<br>ndk or  |  |   |      | 1.8V |
| 218  |   |   | D39  |  |  |         |                            |                     |       |                | ×                                     | Zener Diode  | DZ2S033M0L  | or SG-210SEBA 33.000000 MHz L<br>DZ2S033M0L  | seiko epson<br>panasonic   | 1005   |   | 4.0/ |      |
| 219  |   |   |  |  | R665 R669<br>R728 R729   |         |                            |                     |       |                | ×                                     | Chip resistor  | 24.9  | MCR01MZPF24R9  | rohm   | 1005   |   | 1%   |      |
| 220<br>221   |   |   | U75  |  | U77  |         |                            |                     |       |                | ×                                     | SWITCH<br>U1用ソケット用穴  | PI3PCIE3212ZBE<br>SIP_SOCKET_HOLE   | PI3PCIE3212ZBE<br>-  | pericom<br>-   |  |   |      |      |
| 222<br>223   | 1 (CN7)<br>1 (JP2)  |   |  |  |  |         |                            |                     |       |                | 00                                    | Housing clamp<br>Jumper Socket   | (LC-04A)<br>(HWP-3P-G)  | LCC-04<br>JS-1   | jst<br>mac8  |  |   |      |      |
| 224<br>225   | 10 L78  | L76<br>L79  |  | L81  | L5 L6<br>L82 L83   |         |                            |                     |       |                | ×                                     | Ferrite Chip Beads<br>Ferrite Chip Beads   | 600ohm@100MHz<br>BLM18PG330SH1D   | BLM15AX601SZ1D<br>BLM18PG330SH1D   | murata<br>murata   | 1005   |   |      |      |
| 226  | L84<br>14 L88<br>L94  | L85<br>L89<br>L95   | L90  | L87<br>L91<br>L97  | L92 L93<br>L98 L99   |         |                            |                     |       |                | ×                                     | Ferrite Chip Beads   | BLM18AG102SH1D  | BLM18AG102SH1D   | murata   | -  | -   |      |      |
| 227  | L100  | L95   | L102   | L9/  | L98 L99  |         |                            |                     |       |                | ×                                     | Power Inductors  | 5.6uH   | NS12575T5R6NN  | taiyo yuden  |  |   |      |      |
| 228<br>229   | 1<br>1 L77  | L73   |  |  |  |         |                            |                     |       |                | ×                                     | Inductor Inductor  | 120ohm@100MHz<br>600ohm@100MHz  | BLM15BB121SH1D<br>BLM18AG601SH1D   | murata<br>murata   | 1005<br>1608   |   |      |      |
| 230<br>231   | 3 R737<br>1 U79   |   |  |  |  |         |                            |                     |       |                | ×                                     | Chip resistor<br>2-Wire Bus Buffers  | 30k<br>LTC4313CMS8-1#PBF  | MCR01MZPF3002<br>LTC4313CMS8-1#PBF   | rohm<br>linear technology  | 1005   |   | 1%   |      |
| 232  | 1 TP9   | D41   | D42  |  |  |         |                            |                     |       |                | ×                                     | Diodes Terminal Pin  | RB520SM-30FH<br>HW-1-G  | RB520SM-30FHT2R<br>HW-1-G  | rohm<br>mac8   |  |   |      |      |
| 234<br>235<br>236  | 1 U78<br>2 CN34<br>1 D43  | CN38  |  |  |  |         |                            |                     |       |                | ×                                     | Giga Ethernet Transceiver CPU_FAN CN Shottky Barrier Diode   | KSZ9031RNXVA<br>22-04-1031<br>TCH20A15  | KSZ9031RNXVA<br>22-04-1031<br>TCH20A15   | micrel<br>molex<br>nihon inter elect   |  |   |      |      |
| 237  | 0   |   |  |  |  |         | C896                       | C897                | C935  | C937           | ×                                     | chip capacitor   | 1uF*<br>0.068uF   | GCM188R71C105KA49<br>GCM155R71C683KA55   | murata<br>murata   | 1608<br>1005   | 16V<br>16V  |      |      |
| 239<br>240   | 0   |   |  |  |  |         | R750                       | R751                | R773  | R775           | ×                                     | Chip resistor AC Adapter CN  | 1k*<br>PJ-063AH   | MCR03EZPJ102<br>PJ-063AH   | rohm<br>cui inc  | 1608   |   |      |      |
| 241<br>242   | 1 VR2<br>1 CN36   |   |  |  |  |         |                            |                     |       |                | ×                                     | Resistor<br>AC Adapter CN  | 100k<br>PJ-063AH  | ST-2TA104<br>PJ-063AH or PJ-063BH  | copal  |  |   | 20%  |      |
| 243  | 201 102   | 1 105   | L107   |  |  |         |                            |                     |       |                |                                       |  |   |  | cui inc  |  |   |      |      |
| 244  | 2 L104  |   |  |  |  |         | 1101                       |                     |       |                | ×                                     | Ferrite Chip Beads<br>EMIFIL   | BLM18KG260TZ1<br>NFM31HK223R1H3   | BLM18KG260TZ1<br>NFM31HK223R1H3  | murata<br>murata   | 1608<br>3216   |   |      |      |
| 244<br>245<br>246  |   | L106<br>C877  |  |  |  |         | U81                        |                     |       |                | ×                                     | EMIFIL<br>IC<br>chip capacitor   | BLM18KG260TZ1<br>NFM31HK223R1H3<br>TestIC<br>4.7uF  | BLM18KG260TZ1<br>NFM31HK223R1H3<br>TestIC<br>CGA3E1X5R0J475KT  | murata<br>murata<br>-<br>tdk   | 3216<br>1608   | 6.3V  | 1%   |      |
| 244<br>245   | 2 L104<br>0<br>2 C878<br>1  | L106  |  |  |  |         | U81                        |                     |       |                | ×                                     | EMIFIL<br>IC   | BLM18KG260TZ1<br>NFM31HK223R1H3<br>TestIC   | BLM18KG260TZ1<br>NFM31HK223R1H3<br>TestIC  | murata<br>murata<br>-  | 3216   | 6.3V  | 1%   |      |
| 244<br>245<br>246<br>247<br>248<br>249   | 2 L104<br>0 2 C878<br>1 2 U82<br>0 0  | C877<br>R398<br>U83   |  |  |  |         | U81                        |                     |       |                | ×<br>×<br>×<br>×<br>×                 | EMIFIL IC chip capacitor Chip resistor Audio Amp chip capacitor  | BLM18KG260TZ1 NFM31HK223R1H3 TestIC 4.7uF 49.9k MAX9813LEKA+T 100uF GCM188R71C104KA37   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13 GCM188R71C104KA37   | murata<br>murata<br>-<br>tdk<br>rohm<br>maxim<br>murata  | 3216<br>1608<br>1005   |   | 1%   |      |
| 244<br>245<br>246<br>247<br>248<br>249<br>250<br>251<br>252  | 2 L104<br>0<br>2 C878<br>1  | C877<br>R398<br>U83   |  |  |  |         |                            |                     |       |                | × × × × × × × × ×                     | EMIFIL IC chip capacitor Chip resistor Audio Amp chip capacitor chip capacitor MOSFET chip capacitor   | BLM18KG260TZ1<br>NFM31HK223R1H3<br>TestIC<br>4.7uF<br>49.9k<br>MAX9813LEKA+T<br>100uF<br>GCM188R71C104KA37<br>IPG20N04S4L-08<br>47uF*   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13 GCM188R71C104KA37 IPG20N04S4L-08 or sqj912aep GCM32ER70J476KE19   | murata<br>murata<br>-<br>tdk<br>rohm<br>maxim<br>murata<br>murata  | 3216<br>1608<br>1005<br>3225<br>1608   | 6.3V<br>16V<br>6.3V   | 1%   |      |
| 244<br>245<br>246<br>247<br>248<br>249<br>250<br>251<br>252<br>253<br>254  | 2 L104<br>0 2 C878<br>1 2 U82<br>0 0  | C877<br>R398<br>U83   |  |  |  |         | U81<br>C947                |                     |       |                | X                                     | EMIFIL IC chip capacitor Chip resistor Audio Amp chip capacitor chip capacitor chip capacitor chip capacitor MOSFET chip capacitor chip capacitor chip capacitor chip capacitor chip capacitor Level Translator  | BLM18KG260TZ1 NFM31HK223R1H3 TestIC 4.7uF 49.9k MAX9813LEKA+T 100uF GCM188R71C104KA37 IPG20N04S4L-08 47uF* 10uF LSF0101DRYR   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13 GCM188R71C104KA37 IPG20N04S4L=08 or sqj912aep GGM21BC71C106KE36 LSF0101DRYR   | murata murata tidk rohm maxim murata murata anneon or vishay murata ti   | 3216<br>1608<br>1005<br>3225<br>1608<br>3225<br>2012                                 | 6.3V  | 1%   |      |
| 244<br>245<br>246<br>247<br>248<br>249<br>250<br>251<br>252<br>253   | 2 L104<br>0 2 C878<br>1 2 U82<br>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | C877<br>R398<br>U83   |  |  |  |         |                            |                     |       |                | × × × × × × × ×                       | EMIFIL IC chip capacitor Chip resistor Audio Amp chip capacitor   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC 4.7uF 49.9k MAX9813LEKA+T 100uF GCM188R71C104KA37 IPG20N04S4L-08 47uF* 10uF   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13 GCM188R71C104KA37 IPG20N0454L-08 or sqj912aep GCM32ER70J476KE19 GCM21BC71C106KE36   | murata<br>murata<br>-<br>tdk<br>rohm<br>maxim<br>murata<br>murata  | 3216<br>1608<br>1005<br>3225<br>1608   | 6.3V<br>16V<br>6.3V   | 1%   |      |
| 244<br>245<br>246<br>247<br>248<br>249<br>250<br>251<br>252<br>253<br>254<br>255<br>256<br>257<br>258<br>259   | 2 L104<br>0 2 C878<br>1 2 U82<br>0 0 2 U84<br>0 0 1 U86<br>0 0 1 U86  | C877<br>R398<br>U83   |  |  |  |         | C947                       |                     |       |                | X                                     | EMIFIL IC chip capacitor Chip resistor Audio Amp chip capacitor  chip capacitor  chip capacitor  MOSFET chip capacitor chip capacitor Level Translator Chip resistor chip capacitor Chip resistor  | BLM18KG260TZ1 NFM31HK223R1H3 TestlC 4.7uF 49.9k MAX9813LEKA+T 100uF  GCM188R71C104KA37 IPG20N04S4L-08 47uF* 10uF LSF0101DRYR 100 4.7uF AD1580ARTZ 20k 820   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13 GCM188R71C104KA37 IPG20N04S4L-08 or sqj912aep GCM32ER70J476KE19 GCM21BC71C106KE36 LSF0101DRYR MCR01MZPF1000 GRM155R61A475MEAA AD1580ARTZ ST-2TA203 MCR01MZPF8200  | murata murata - tdk rohm maxim murata murata nfineon or vishay murata ti rohm murata and ti rohm murata nfineon or vishay murata murata ti rohm murata analog devices copal rohm   | 3216<br>1608<br>1005<br>3225<br>1608<br>3225<br>2012<br>1005<br>1005                 | 6.3V<br>16V<br>6.3V<br>16V  | 1%   |      |
| 244<br>245<br>246<br>247<br>248<br>249<br>250<br>251<br>252<br>253<br>254<br>255<br>256<br>257<br>258<br>259<br>260<br>261   | 2 L104<br>0 2 C878<br>1 2 U82<br>0 0 2 U84<br>0 0 1 U86<br>0 0 1 D44<br>2 VR3   | U85   |  |  |  |         |                            |                     |       |                | X                                     | EMIFIL IC Chip capacitor Chip resistor Audio Amp chip capacitor Chip resistor Audio IN/OUT CN   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC 4.7uF 49.9k MAX9813LEKA+T 100uF  GCM188R71C104KA37 IPG20N04S4L-08 47uF* 100uF LSF0101DRYR 100 4.7uF AD1580ARTZ 20k  | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13  GCM188R71C104KA37 IPG20N0454L-08 or sqj912aep GCM32ER70J476KE19 GCM21BC71C106KE36 LSF0101DRYR MCR01MZPF1000 GRM155R61A475MEAA AD1580ARTZ ST-2TA203 MCR01MZPF8200 MCR01MZPF8200 MCR01MZPF1002 SJ-3523-SMT   | murata murata — tdk rohm maxim murata Infineon or vishay murata ti rohm murata ti rohm murata analog devices copal rohm rohm cui inc   | 3216<br>1608<br>1005<br>3225<br>1608<br>3225<br>2012<br>1005<br>1005<br>1005         | 6.3V<br>16V<br>6.3V<br>16V  | 1%   |      |
| 244<br>245<br>246<br>247<br>248<br>249<br>250<br>251<br>252<br>253<br>254<br>255<br>256<br>257<br>258<br>259<br>260<br>261<br>262                                    | 2 L104<br>0 2 C878<br>1 1 2 U82<br>0 0 2 U84<br>0 0 1 U86<br>0 0 1 U86<br>0 0 1 D44<br>2 VR3<br>1 R425<br>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   | U85  VR4  CN40  |  | Ug1  |  |         | C947                       |                     |       |                | × × × × × × × × × × × × × × × × × × × | EMIFIL IC chip capacitor Chip resistor Audio Amp chip capacitor chip capacitor chip capacitor MOSFET chip capacitor chip capacitor chip capacitor Level Translator Chip resistor chip capacitor Level Translator Chip resistor   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC 4.7uF 49.9k MAX9813LEKA+T 100uF GCM188R71C104KA37 IPG20N04S4L-08 47uF* 10uF LSF0101DRYR 100 4.7uF AD1580ARTZ 20k 820 10k SJ-3523-SMT 62   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13 GCM188R71C104KA37 IPG20N04S4L-08 or sqj912aep GCM32ER70J476KE19 GCM21BC71C106KE36 LSF0101DRYR MCR01MZPF1000 GRM155R61A475MEAA AD1580ARTZ ST-2TA203 MCR01MZPF8200 MCR01MZPF1002 SJ-3523-SMT MCR01MZPJ620   | murata murata - tdk rohm maxim murata infineon or vishay murata tti rohm murata analog devices copal rohm rohm   | 3216<br>1608<br>1005<br>3225<br>1608<br>3225<br>2012<br>1005<br>1005                 | 6.3V<br>16V<br>6.3V<br>16V  | 1%   |      |
| 244<br>245<br>246<br>247<br>248<br>249<br>250<br>251<br>252<br>253<br>254<br>255<br>256<br>257<br>258<br>259<br>260<br>261   | 2 L104<br>0 L104<br>1 L2 U82<br>0 U82<br>0 U84<br>0 U84<br>0 U86<br>0 U86<br>0 U87<br>1 U86<br>0 U87<br>1 D44<br>2 VR3<br>1 D44<br>2 VR3<br>1 U87<br>1 U87  | U85   |  | U91  | U93 U94 U95  | 5       | C947                       |                     |       |                | X                                     | EMIFIL IC Chip capacitor Chip resistor Audio Amp chip capacitor Chip resistor Audio IN/OUT CN   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC 4.7uF 49.9k MAX9813LEKA+T 100uF GCM188R71C104KA37 IPG20N04S4L-08 47uF* 10uF LSF0101DRYR 100 4.7uF AD1580ARTZ 20k 820 10k  | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13  GCM188R71C104KA37 IPG20N0454L-08 or sqj912aep GCM32ER70J476KE19 GCM21BC71C106KE36 LSF0101DRYR MCR01MZPF1000 GRM155R61A475MEAA AD1580ARTZ ST-2TA203 MCR01MZPF8200 MCR01MZPF8200 MCR01MZPF1002 SJ-3523-SMT   | murata murata — tdk rohm maxim murata Infineon or vishay murata ti rohm murata ti rohm murata analog devices copal rohm rohm cui inc   | 3216<br>1608<br>1005<br>3225<br>1608<br>3225<br>2012<br>1005<br>1005<br>1005         | 6.3V<br>16V<br>6.3V<br>16V  | 1%   |      |
| 244<br>245<br>246<br>247<br>248<br>249<br>250<br>251<br>252<br>253<br>254<br>255<br>256<br>257<br>258<br>259<br>260<br>261<br>262<br>263<br>264<br>265<br>266        | 2 L104<br>0 L104<br>1 L2 U82<br>0 U82<br>0 U84<br>0 0 U84<br>0 0 U86<br>0 0 | U85  VR4  CN40  U88   |  | U91  | U93 U94 U95  | 5       | C947                       |                     |       |                | X                                     | EMIFIL IG Chip capacitor Chip resistor Audio Amp chip capacitor Chip capacitor Chip capacitor Chip capacitor MOSFET Chip capacitor Chip capacitor Chip capacitor Level Translator Chip resistor Resistor Chip resistor Resistor Audio IN/OUT CN Chip resistor ESD Protection Device HDMI Companion Chip PCIE Switch crystal oscillator   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC 4.7uF 49.9k MAX9813LEKA+T 100uF GCM188R71C104KA37 IPG20N04S4L-08 47uF* 10uF LSF0101DRYR 100 4.7uF AD1580ARTZ 20k 320 10k SJ-3523-SMT 62 TPD4E05U06DQAR TPD5S116YFFR MAX488BBETI+ NX2016SA[16.66MHz/10pF/15ppm]*   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13 GGM188R71C104KA37 IPG20N04S4L-08 or sqj912aep GGM32ER70J476KE19 GCM21BC71C106KE36 LSF0101DRYR MCR01MZPF1000 GRM15SR61A475MEAA AD1580ARTZ ST-ZTA203 MCR01MZPF1002 SJ-3523-SMT MCR01MZPF1002 SJ-3523-SMT MCR01MZPJ620 TPD4E05U06DQAR TPD5S116YFFR MAX4888ETI+ MZ2016SA-16.66MHz-CHP-CZS-41 NZ2016SA-16.66MHz-CHP-CZS-41   | murata murata - tdk rohm maxim murata Infineon or vishay murata murata ti rohm murata analog devices copal rohm rohm cui inc rohm ti ti ti maxim maxim maxim ndk ndk or  | 3216<br>1608<br>1005<br>3225<br>1608<br>3225<br>2012<br>1005<br>1005<br>1005         | 6.3V<br>16V<br>6.3V<br>16V  | 1%   |      |
| 244<br>245<br>246<br>247<br>248<br>249<br>250<br>251<br>252<br>253<br>254<br>255<br>256<br>257<br>258<br>259<br>260<br>261<br>262<br>263<br>264<br>265<br>266        | 2 L104<br>0 L104<br>1 L2 U82<br>0 U82<br>0 U84<br>0 0 U84<br>0 0 U86<br>0 0 | U85  VR4  CN40  U88   |  | U91  | U93 U94 U95  | 5       | C947                       | CALCO               | CAIDS | CNIDA          | X                                     | EMIFIL IG Chip capacitor Chip resistor Audio Amp chip capacitor Chip resistor Resistor Audio IN/OUT CN Chip resistor ESD Protection Device HDMI Companion Chip PCIE Switch crystal oscillator  | BLM18KG260TZ1 NFM31HK223R1H3 TestIC 4.7uF 49.9k MAX9813LEKA+T 100uF  GCM188R71C104KA37 IPG20N04S4L-08 47uF* 100uF LSF0101DRYR 100 4.7uF AD1580ARTZ 20k 820 10k S20 10k S20 10k S2-3523-SMT 62 TPD4E05U06DQAR TPD5S116VFFR MAX4888BETI+ NX2016SA[16.66MHz/10pF/15ppm]* NZ2016SH[16.66MHz/50ppm]  | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13  GCM188R71C104KA37 IPG20N04S4L-08 or sqj912aep GCM32ER70J476KE19 GCM21BC71C106KE36 LSF0101DRYR MCR01MZPF1000 GRM155R61A475MEAA AD1580ARTZ ST-2TA203 MCR01MZPF1002 SJ-3523-SMT MCR01MZPF200 MCR01MZPF1002 SJ-3523-SMT MCR01MZPF200 TPD4E05U06DQAR TPD5S116YFFR MAX4888BETI+ NZ2016SA-16.66MHz-CHP-CZS-41 NZ2016SH-16.660MHz OR MC2520K16.6600C1XESX  | murata murata - tdk rohm maxim murata murata murata murata murata murata murata murata murata ti rohm murata analog devices copal rohm rohm cui inc rohm ti ti maxim maxim   | 3216<br>1608<br>1005<br>3225<br>1608<br>3225<br>2012<br>1005<br>1005<br>1005         | 6.3V<br>16V<br>6.3V<br>16V  | 1%   | 1.8V |
| 244<br>245<br>246<br>247<br>248<br>249<br>250<br>251<br>252<br>253<br>254<br>255<br>256<br>257<br>258<br>259<br>260<br>261<br>262<br>263<br>264<br>265<br>266<br>267 | 2 L104<br>0 L104<br>1 L2 U82<br>0 U82<br>0 U84<br>0 0 U84<br>0 0 U86<br>0 0 | U85  VR4  CN40  U88   |  | U91  | U93 U94 U95  | 5       | C947                       | GND2                | GND3  | GND4           | X                                     | EMIFIL IG Chip capacitor Chip resistor Audio Amp chip capacitor Chip capacitor Chip capacitor Chip capacitor Chip capacitor MOSFET chip capacitor Chip capacitor Chip resistor ESD Protection Device HDMI Companion Chip PCIE Switch crystal oscillator Crystal oscillator GND Connector Chip capacitor  | BLM18KG260TZ1 NFM31HK223R1H3 TestIC 4.7uF 49.9k MAX9813LEKA+T 100uF  GCM188R71C104KA37 IPG20N04S4L-08 47uF* 10uF LSF0101DRYR 10u 4.7uF AD1580ARTZ 20k 320 110k SJ-3523-SMT 62 TPD4E05U06DQAR TPD5S116YFFR MAX4888BETI+ NX2016SA[16.66MHz/10pF/15ppm]* NZ2016SH[16.66MHz/50ppm] GND 0.015uF  | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13 GGM18R71C104KA37 IPG20N04S4L-08 or sqj912aep GGM32ER70J476KE19 GCM21BC71C106KE36 LSF0101DRYR MCR01MZPF1000 GRM155R61A475MEAA AD1580ARTZ ST-ZTA203 MCR01MZPF1002 SJ-3523-SMT MCR01MZPF1002 SJ-3523-SMT MCR01MZPF1002 SJ-3523-SMT MCR01MZPF1002 TPD4E05U06DQAR TPD5S116YFFR MAX4888BETI+ NX2016SA-16.66MHz-CHP-CZS-41 NZ2016SH-16.66MHz-NSC5021A or SG210SEBA 16.6600MHz or MC2520K16.6600C1XESX GND GCM155R71E153KA55  | murata murata - tdk rohm maxim murata infineon or vishay murata ti rohm murata analog devices copal rohm cui inc rohm ti ti ti maxim mdk ndk or seiko epson or kyocera - murata  | 3216<br>1608<br>1005<br>3225<br>1608<br>3225<br>2012<br>1005<br>1005<br>1005<br>1005 | 6.3V<br>16V<br>6.3V<br>16V  | 1%   | 1.8V |
| 244<br>245<br>246<br>247<br>248<br>249<br>250<br>251<br>252<br>253<br>254<br>255<br>256<br>257<br>258<br>259<br>260<br>261<br>262<br>263<br>264<br>265<br>266        | 2 L104<br>0 L104<br>1 L2 U82<br>0 U82<br>0 U84<br>0 0 U84<br>0 0 U86<br>0 0 | U85  VR4  CN40  U88   |  | U91  | U93 U94 U95  | 5       | C947                       | GND2                | GND3  | GND4           | X                                     | EMIFIL IC Chip capacitor Chip resistor Audio Amp chip capacitor Chip capacitor Chip capacitor chip capacitor MOSFET chip capacitor Chip capacitor Chip capacitor Chip capacitor Chip resistor Resistor Audio IN/OUT CN Chip resistor ESD Protection Device HDMI Companion Chip PCIE Switch crystal oscillator Crystal oscillator GND Connector   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC 4.7uF 49.9k MAX9813LEKA+T 100uF GCM188R71C104KA37 IPG20N04S4L-08 47uF* 10uF LSF0101DRYR 100 4.7uF AD1580ARTZ 20k 820 10k SJ-3523-SMT 62 TPD4E05U06DQAR TPD5S116YFFR MAX4888BETI+ NX2016SA[16.66MHz/10pF/15ppm]* NZ2016SH[16.66MHz/50ppm] GND  | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13 GCM188R71C104KA37 IPG20N04S4L-08 or sqj912aep GCM32ER70J476KE19 GCM21BC71C106KE36 LSF0101DYR MCR01MZPF1000 GRM155R61A475MEAA AD1580ARTZ ST-2TA203 MCR01MZPF1002 SJ-3523-SMT MCR01MZPF1002 SJ-3523-SMT MCR01MZPF6200 MCR01MZPF6200 MCR01MZPFF002 TPD4E05U06DQAR TPD5S116YFFR MAX4888BETI+ NX2016SA-16.666MHz-CHP-CZS-41 NZ2016SH-16.66MHz-NSC5021A or SG210SEM 16.6600MHz or MC2520K16.6600C1XESX GND GCM155R71E153KA55 GCM155R71E153KA55 GCM155R71E33XKA55  | murata murata - tdk rohm maxim murata murata murata murata murata murata murata murata murata ti rohm murata analog devices copal rohm cui inc rohm ti ti ti maxim ndk ndk or seiko epson or kyocera   | 3216<br>1608<br>1005<br>3225<br>1608<br>3225<br>2012<br>1005<br>1005<br>1005<br>1005 | 6.3V<br>16V<br>6.3V<br>16V  | 1%   | 1.8V |
| 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271  | 2 L104<br>0 L104<br>1 L2 U82<br>0 U82<br>0 U84<br>0 0 U84<br>0 0 U86<br>0 0 | U85  VR4  CN40  U88   |  | U91  | U93 U94 U95  | 5       | C947  R426  GND1           | GND2                | GND3  | GND4           | X                                     | EMIFIL IG IG Chip capacitor Chip resistor Audio Amp chip capacitor Chip resistor Chip resistor Chip resistor Chip resistor Chip resistor Resistor Audio IN/OUT CN Chip resistor ESD Protection Device HDMI Companion Chip PCIE Switch crystal oscillator CMD Connector Chip capacitor CND Connector Chip capacitor   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC 4.7uF 49.9k MAX9813LEKA+T 100uF GCM188R71C104KA37 IPG20N04S4L-08 47uF* 10uF LSF0101DRYR 100 4.7uF AD1580ARTZ 20k 820 10k SJ-3523-SMT 62 TPD4E05U06DQAR TPD5S116YFFR MAX4888BETI+ NX2016SA[16.66MHz/10pF/15ppm]* NZ2016SH[16.66MHz/50ppm] GND 0.015uF 0.003uF 0.0068uF   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13  GCM188R71C104KA37 IPG20N0454L-08 or sqj912aep GCM32ER70J476KE19 GCM21BC71C106KE36 LSF0101DRYR MCR01MZPF1000 GRM155R61A475MEAA AD1580ARTZ ST-2TA203 MCR01MZPF1002 SJ-3523-SMT MCR01MZPF1002 SJ-3523-SMT MCR01MZPF1002 SJ-3523-SMT MCR01MZPF1002 TPD4E05U06DQAR TPD55116YFFR MAX488BETI+ NX2016SA-16.66MHz-CHP-CZS-41 NZ2016SH-16.660MHz or MC2520K16.6600C1XESX GND GCM155R71E153KA55 GCM155R71E33KA55 GCM155R71E33KA55 GCM155R71E33KA55 GCM155R71E33KA55 GCM155R71E33KA55 GCM155R71E33KA55 GCM155R71E683KA55 NX2016SA-16.64MHz-CHP-CZS-53 NX2016SA-16.64MHz-CHP-CZS-53 NX2016SA-16.64MHz-CHP-CZS-53 NX2016SA-16.64MHz-CHP-CZS-53 NX2016SA-16.64MHz-CHP-CZS-53 NX2016SA-16.64MHz-CHP-CZS-53 NX2016SA-16.64MHz-CHP-CZS-53 NX2016CA-16.64MHz-CHP-CZS-53   | murata murata murata — tdk rohm maxim murata Infineon or vishay murata ti rohm murata ti rohm murata analog devices copal rohm cui inc rohm ti ti maxim ndk ndk or seiko epson or kyocera — murata ndk ndk or seiko epson   | 3216<br>1608<br>1005<br>3225<br>1608<br>3225<br>2012<br>1005<br>1005<br>1005<br>1005 | 6.3V<br>16V<br>6.3V<br>16V  | 1%   | 1.8V |
| 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272  | 2 L104<br>0 L104<br>2 U82<br>0 0 2 U84<br>0 0 0 1 U86<br>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | U85  VR4  CN40  U88   |  | U91  | U93 U94 U95  | 5       | C947  R426  GND1           | GND2                | GND3  | GND4           | X                                     | EMIFIL IC IC Chip capacitor Chip resistor Audio Amp chip capacitor Chip capacitor Chip capacitor Chip capacitor Chip capacitor MOSFET chip capacitor Chip resistor Level Translator Chip resistor Chip resistor Chip resistor Chip resistor Chip resistor Resistor Chip resistor Audio IN/OUT CN Chip resistor ESD Protection Device HDMI Companion Chip PCIE Switch crystal oscillator GND Connector chip capacitor crystal oscillator Inductor  | BLM18KG260TZ1 NFM31HK223R1H3 TestIC 4.7uF 49.9k MAX9813LEKA+T 100uF  GCM188R71C104KA37 IPG20N04S4L-08 47uF* 10uF LSF0101DRYR 100 4.7uF AD1580ARTZ 20k 820 10k SJ-3523-SMT 62 TPD4E05U06DQAR TPD5S116YFFR MAX4888BETI+ NX2016SA[16.66MHz/10pF/15ppm]* NZ2016SA[16.66MHz/50ppm] GND 0.015uF 0.033uF 0.068uF NX2016SA[16.64MHz/10pF/15ppm]* NZ2016SA[16.64MHz/45ppm] 0.15uH  | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13 GGM188R71C104KA37 IPG20N04S4L-08 or sqj912aep GGM32ER70J476KE19 GCM21BC71C106KE36 LSF0101DRYR MCR01MZPF1000 GRM155R61A475MEAA AD1580ARTZ ST-ZTA203 MCR01MZPF1000 GRM155R61A475MEAA AD1580ARTZ ST-ZTA203 MCR01MZPF1002 SJ-3523-SMT MCR01MZPJ620 TPD4E05U06DQAR TPD5S116YFFR MAX4888BETI+ NX2016SA-16.66MHz-CHP-CZS-41 NZ2016SH-16.66MHz-NSC5021A or SG210SEBA 16.6600MHz or MC2520K16.6600C1XESX GND GCM155R71E153KA55 GCM155R71E333KA55 NX2016SA-16.64MHz-CHP-CZS-53 NZ2016SH-16.64MHz-CHP-CZS-53 NZ2016SH-16.64MHz-CHP-CZS-53 NZ2016SH-16.64MHz-CHP-CZS-53 NZ2016SH-16.64MHz-CHP-CZS-53 NZ2016SH-16.64MHz-CHP-CZS-53 NZ2016SH-16.64MHz-CHP-CZS-53 NZ2016SH-16.64MHz-CHP-CZS-53 NZ2016SH-16.64MHz-RNA5013C or SG2016CAA 16.64MHz-TTJA or MC2016K16.6400C16ESH SPM6545VT-R15M-D  | murata murata - tdk rohm maxim murata infineon or vishay murata murata ti rohm murata analog devices copal rohm cui inc rohm ti ti maxim ndk ndk or seiko epson or kyocera - murata murata murata di murata ti maxim ndk ndk or seiko epson or kyocera tdk   | 3216 1608 1005 3225 1608 3225 1005 1005 1005 1005 1005 1005 1005 1                   | 6.3V<br>16V<br>6.3V<br>16V  | 1%   |      |
| 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276                                  | 2 L104<br>0 2 C878<br>1 1<br>2 U82<br>0 0 0<br>1 U86<br>0 0 1<br>1 D44<br>2 VR3<br>1 R425<br>0 0 0<br>0 0 0<br>1 D44<br>2 VR3<br>1 R425<br>0 0 0<br>0 0 0<br>1 U87<br>2 U89<br>1 U97<br>0 0 0<br>1 U87<br>2 U89<br>1 U97<br>1 U87<br>2 U89<br>1 U97<br>1 U87<br>2 U89<br>1 U97<br>1 U87<br>2 U89<br>1 U97<br>0 U87<br>1 U87<br>2 U89<br>1 U97<br>0 U87<br>1 U87<br>2 U89<br>1 U97<br>0 U87<br>1 U87<br>1 U97<br>0 U87<br>1 U97<br>1 U97  | U85 U85 U88 U88 U88 U88 U88 U88 U88 U88   |  | U91  | U93 U94 U95  | 5       | C947  R426  GND1           | GND2                | GND3  | GND4           | X                                     | EMIFIL IG Chip capacitor Chip resistor Audio Amp chip capacitor Chip resistor Chip resistor Chip resistor Resistor Chip resistor Resistor Resistor Chip resistor Resistor Chip resistor Resistor Audio IN/OUT CN Chip resistor ESD Protection Device HDMI Companion Chip PCIE Switch crystal oscillator Inductor Inductor Inductor Inductor Inductor  | BLM18KG260TZ1 NFM31HK223R1H3 TestIC 4.7uF 49.9k MAX9813LEKA+T 100uF GCM188R71C104KA37 IPG20N04S4L-08 47uF* 10uF LSF0101DRYR 100 4.7uF AD1580ARTZ 20k 820 10k SJ-3523-SMT 62 TPD4E05U06DQAR TPD5S116YFFR MAX4888BETI+ NX2016SA[16.66MHz/10pF/15ppm]* NZ2016SH[16.66MHz/50ppm] GND 0.015uF 0.003uF 0.068uF NX2016SA[16.64MHz/10pF/15ppm]* NZ2016SH[16.64MHz/45ppm] 0.15uH 0.24uH  | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13 GCM188R71C104KA37 IPG20N04S4L-08 or sqj912aep GCM32ER70J476KE19 GCM21BC71C106KE36 LSF0101DRYR MCR01MZPF1000 GRM155R61A475MEAA AD1580ARTZ ST-2TA203 MCR01MZPF1000 MCR01MZPF1000 SJ-3523-SMT MCR01MZPF1002 SJ-3523-SMT MCR01MZPF1002 SJ-3523-SMT MCR01MZPFF1002 SJ-3523-SMT MCR01MZPFF8200 MCR01MZPFF1002 SJ-3523-SMT MCR01MZPFF8200 MCR01MZPFF1002 SJ-3523-SMT MCR01MZPF6200 MCR01MZPF1002 SJ-3523-SMT MCR01MZPF6200 MCR01MZPF1002 SJ-3523-SMT MCR01MZPF6200 MCR01MZPF1002 SJ-3523-SMT MCR01MZPF6200 MCR01MZPF1002 SJ-3523-SMT MCR01MZPF1000 GRM155R71E153K-5 GCM155R71E153K-5 GCM155R71E153K-5 GCM155R71E153K-5 GCM155R71E153K-5 GCM155R71E153K-5 SJ-2016CM-16.64MHz-CHP-CZS-53 NZ2016SH-16.64MHz-CHP-CZS-53 NZ2016SH- | murata murata  | 3216 1608 1005 3225 1608 3225 2012 1005 1005 1005 1005 1005 1005 1                   | 6.3V<br>16V<br>6.3V<br>16V  | 1%   |      |
| 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273  | 2 L104 0 0 1 2 U82 0 0 1 U84 0 0 1 U86 0 0 1 D44 2 VR3 1 R425 0 0 0 1 D49 1 U97 0 0 1 U87 2 U89 1 U97 0 1 U87 1 U97 0 1 U87 1 U97 0 0 U97   | CN40  U85  U85  U85  U85  L56  L58  | U90  |  |  | 5       | C947  R426  GND1           | GND2                | GND3  | GND4           | X                                     | EMIFIL IC IC Chip resistor Audio Amp chip capacitor Chip resistor Audio Amp chip capacitor Chip capacitor Chip capacitor Chip capacitor Chip capacitor Level Translator Chip resistor Chip capacitor Chip resistor Chip resistor Resistor Audio IN/OUT CN Chip resistor ESD Protection Device HDMI Companion Chip PCIE Switch crystal oscillator Crystal oscillator GND Connector chip capacitor chip capacitor crystal oscillator Inductor Inductor Inductor   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC 4.7uF 49.9k MAX9813LEKA+T 100uF  GCM188R71C104KA37 IPG20N04S4L-08 47uF* 10uF LSF0101DRYR 10u 4.7uF AD1580ARTZ 20k 820 110k SJ-3523-SMT 62 TPD4E05U06DQAR TPD5S116YFFR MAX4888BETI+ NX2016SA[16.66MHz/10pF/15ppm]* NZ2016SH[16.66MHz/50ppm] GND 0.015uF 0.033uF 0.068uF NX2016SA[16.64MHz/10pF/15ppm]* NZ2016SH[16.64MHz/10pF/15ppm]* NZ2016SH[16.64MHz/45ppm] 0.15uH 0.15uH   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13  GCM188R71C104KA37 IPG20N0454L-08 or sqj912aep GCM32ER70J476KE19 GCM21BC71C106KE36 LSF0101DRYR MCR01MZPF1000 GRM155R61A475MEAA AD1580ARTZ ST-2TA203 MCR01MZPF1000 GCM15ER70L476KE19 GCM21BC71C106KE36 LSF0101DRYR MCR01MZPF1000 GRM155R61A475MEAA AD1580ARTZ ST-2TA203 MCR01MZPF1002 SJ-3523-SMT MCR01MZPF1002 SJ-3523-SMT MCR01MZPF6200 TPD4E05U06DQAR TPD5S116YFFR MAX4888BET1+ NX2016SA-16.66MHz-CHP-CZS-41 NX2016SA-16.66MHz-NSC5021A or SG210SEBA 16.6600MHz or MC2520K16.6600C1XESX GND GCM155R71E153KA55 GCM155R71E333KA55 GCM155R71E333KA55 NX2016SA-16.64MHz-CHP-CZS-53 NX2016SH-16.64MHz-CHP-CZS-53 NX2016SH-16.64MHz-CHP-CZS-53 NX2016SH-16.64MHz-CHP-CZS-53 NX2016SH-16.64MHz-CHP-CZS-53 NX2016SH-16.64MHz-CHP-CZS-53 NZ2016SH-16.64MHz-CHP-CZS-53  | murata murata murata murata tidk rohm maxim murata lafineon or vishay murata ti rohm murata analog devices copal rohm cui inc rohm ti ti maxim ndk or seiko epson or kyocera — murata tdk ndk or seiko epson or kyocera tdk tdk tdk  | 3216 1608 1005 3225 1608 3225 1005 1005 1005 1005 1005 1005 1005 1                   | 6.3V<br>16V<br>6.3V<br>16V  | 1%   |      |
| 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 278 279                              | 2 L104 0 L104 1 L110 1 L111 2 L57 1 U44 2 VR3 1 P425 0 0 0 0 1 D44 2 VR3 1 P425 0 0 0 0 1 D44 1 L111 2 L57 1 U61 1 L111 2 L57 1 U61 1 R6 0 R7 1 U7 1 L111 2 L57 1 U61 1 R6 0 R7 1 U61 1 R6 1  | U85 U85 U88 U88 U88 U88 U88 U88 U88 U88   | U90<br>C210<br>C174<br>C866  | C867<br>C175<br>C883   | C869   |         | C947  R426  GND1  X3       |                     |       | GND4 C568 C572 | X                                     | EMIFIL IG Chip capacitor Chip resistor Audio Amp chip capacitor Chip capacitor Chip capacitor Chip capacitor MOSFET Chip capacitor Chip capacitor Chip resistor Resistor Chip resistor Audio IN/OUT CN Chip resistor ESD Protection Device HDMI Companion Chip PCIE Switch crystal oscillator GND Connector chip capacitor chip capacitor crystal oscillator Crystal oscillator Inductor   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC 4.7uF 49.9k MAX9813LEKA+T 100uF GCM188R71C104KA37 IPG20N04S4L-08 47uF* 10uF LSF0101DRYR 100 4.7uF AD1580ARTZ 20k 920 10k SJ-3523-SMT 62 TPD4E05U06DQAR TPD5S116YFFR MAX4888ETI+ NX2016SA[16.66MHz/10pF/15ppm]* NZ2016SH[16.66MHz/10pF/15ppm]* NZ2016SH[16.64MHz/45ppm] GND 0.015uF 0.033uF 0.068uF NX2016SA[16.64MHz/45ppm] 0.15uH 0.15uH 0.15uH 0.15uH 0.15uH 0.33uH 5P49V6901A 0.01uF   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13 GGM188R71C104KA37 IPG20N04S4L-08 or sqj912aep GGM32ER70J476KE19 GCM21BC71C106KE36 LSF0101DRYR MCR01MZPF1000 GRM155R61A475MEAA AD1580ARTZ ST-ZTA203 MCR01MZPF1002 SJ-3523-SMT MCR01MZPF1002 SJ-3524-SMEAN SJ | murata murata - tdk rohm maxim murata infineon or vishay murata murata ti rohm murata analog devices copal rohm cui inc rohm ti ti maxim ndk ndk or seiko epson or kyocera - murata murata murata ti   | 3216 1608 1005 3225 1608 3225 1005 1005 1005 1005 1005 1005 1005 1                   | 6.3V<br>16V<br>6.3V<br>16V<br>10V<br>10V<br>25V<br>25V<br>25V   | 1%   |      |
| 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273  | 2 L104 0 2 C878 1 1 2 U82 0 0 0 1 U86 0 0 1 D44 2 VR3 1 R425 0 2 CN39 0 0 1 U87 1 U97 0 1 U87 1 U97 0 1 U87 1 U97 0 1 U87 1 U89 1 U97 0 1 U89 1 U97 0 0 U97   | U85 U85 U88 U89 U88 U89 U88 U99 U88 U99 U56 U56 U57   | C210<br>C174<br>C866<br>C865<br>C167   | C867<br>C1783<br>C868<br>C200  | C869<br>C177<br>C880 C882 C88  |         | C947  R426  GND1  X3       |                     |       |                | X                                     | EMIFIL IG Chip capacitor Chip resistor Audio Amp chip capacitor Chip resistor Chip resistor Chip resistor Chip resistor Resistor Chip resistor Audio IN/OUT CN Chip resistor ESD Protection Device HDMI Companion Chip PCIE Switch crystal oscillator Crystal oscillator Chip capacitor chip capacitor chip capacitor chip capacitor crystal oscillator Inductor Inductor Inductor Inductor Program Clock Generator  | BLM18KG260TZ1 NFM31HK223R1H3 TestIC 4.7uF 49.9k MAX9813LEKA+T 100uF GCM188R71C104KA37 IPG20N04S4L-08 47uF* 10uF LSF0101DRYR 100 4.7uF AD1580ARTZ 20k 820 10k SJ-3523-SMT 62 TPD4E05U06DQAR TPD5S116YFFR MAX4888BETI+ NX2016SA[16.66MHz/10pF/15ppm]* NZ2016SH[16.66MHz/50ppm] GND 0.015uF 0.033uF 0.068uF NX2016SA[16.64MHz/10pF/15ppm]* NZ2016SH[16.64MHz/45ppm] 0.15uH 0.15uH 0.24uH 0.33uH 5P49V6901A   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13 GGM188R71C104KA37 IPG20N0484L-08 or sqj912aep GGM32ER70J476KE19 GCM21BC71C106KE36 LSF0101DRYR MCR01MZPF1000 GRM155R61A475MEAA AD1580ARTZ ST-2TA203 MCR01MZPF1002 SJ-3523-SMT MCR01MZPF1002 SJ-3523-SMT MCR01MZPF6200 TPD4E05U06DQAR TPD55116YFFR MAX4888BET1+ NX2016SA-16.66MHz-CHP-CZS-41 NZ2016SH-16.66MHz-CHP-CZS-41 NZ2016SH-16.66MHz-CHP-CZS-41 NZ2016SH-16.66MHz-CHP-CZS-41 NZ2016SH-16.66MHz-CHP-CZS-53 NZ2016SH-16.64MHz-CHP-CZS-53 NZ2016SH-16.64MHz-RNA5013C or SG2016CAA 16.64MHz-TTJA or MC2016K16.6400C16ESH SPM6545VT-R15M-D SPM6545VT-R15M-D TFM201610ALMAR33MTAA 5P49V6901AdddhLGW2  | murata murata - tdk rohm maxim murata infineon or vishay murata murata ti rohm murata analog devices copal rohm cui inc rohm ti ti maxim ndk ndk or seiko epson or kyocera - murata murata murata ti   | 3216 1608 1005 3225 1608 3225 1005 1005 1005 1005 1005 1005 1005 1                   | 6.3V<br>16V<br>6.3V<br>16V<br>10V   | 1%   |      |
| 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279                      | 2 L104 0 0 1 2 U82 0 0 1 U86 0 0 1 D44 2 VR3 1 R425 0 0 0 1 D49 1 U97 0 0 1 U87 2 U89 1 U97 0 1 U87 2 U89 1 U97 0 1 U87 2 U89 1 U97 0 0 U87 2 U89 1 U97 0 U87 2 U88 8 U89 1 U97 0 U87 2 U87 2 U89 1 U97 0 U87 2 U8  | U85  U85  U85  U88  U88  U88  U88  U88  | U90<br>C210<br>C174<br>C866<br>C865<br>C167<br>C891<br>C162  | C867<br>C175<br>C883<br>C868<br>C200<br>C200<br>C892   | C869<br>C177<br>C880 C882 C888   |         | C947  R426  GND1  X3       |                     |       |                | X                                     | EMIFIL IC IC Ichip capacitor Chip resistor Audio Amp chip capacitor Level Translator Chip resistor Chip resistor Chip resistor Resistor Audio IN/OUT CN Chip resistor ESD Protection Device HDMI Companion Chip PCIE Switch crystal oscillator Crystal oscillator Crystal oscillator crystal oscillator Inductor Inductor Inductor Inductor Inductor Inductor Inductor Program Clock Generator Chip capacitor Inductor Inductor Inductor Inductor Inductor Program Clock Generator Chip capacitor  | BLM18KG260TZ1 NFM31HK223R1H3 TestIC 4.7uF 49.9k MAX9813LEKA+T 100uF GCM188R71C104KA37 IPG20N04S4L-08 47uF* 10uF LSF0101DRYR 10u 4.7uF AD1580ARTZ 20k 820 10k SJ-3523-SMT 62 TPD4E05U06DQAR TPD5S116YFFR MAX4888BETI+ NX2016SA[16.66MHz/10pF/15ppm]* NZ2016SH[16.66MHz/10pF/15ppm]* NX2016SA[16.64MHz/45ppm] GND 0.015uF 0.033uF 0.068uF NX2016SA[16.64MHz/45ppm] 0.15uH 0.15uH 0.24uH 0.33uH 5P49V6901A 0.01uF  | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13 GGM18R71C104KA37 IPG20N04S4L-08 or sqj912aep GGM32ER70J476KE19 GCM21BC71C106KE36 LSF0101DRYR MCR01MZPF1000 GRM155R61A475MEAA AD1580ARTZ ST-2TA203 MCR01MZPF1002 SJ-3523-SMT MCR01MZPF1002 SJ-3523-SMT MCR01MZPF6200 TPD4E05U06DQAR TPD5S116YFFR MAX4888BETI+ NX2016SA-16.66MHz-CHP-CZS-41 NZ2016SH-16.66MHz-CHP-CZS-41 NZ2016SH-16.66MHz-CHP-CZS-41 NZ2016SH-16.66MHz-CHP-CZS-41 NZ2016SH-16.66MHz-CHP-CZS-53 NZ2016SH-16.64MHz-CHP-CZS-53 NZ2016SH-16.64MHZ-MNA505  CGM155R71H133KA55   | murata murata - tdk rohm maxim murata infineon or vishay murata murata murata ti rohm murata analog devices copal rohm cui inc rohm ti ti ti maxim ndk ndk or seiko epson or kyocera - murata murata murata ti ti maxim ndk ndk or seiko epson or kyocera tdk tdk tdk tdk tdk tdk tdk tdk idt murata | 3216 1608 1005 3225 1608 3225 2012 1005 1005 1005 1005 1005 1005 1                   | 6.3V<br>16V<br>6.3V<br>16V<br>10V<br>10V<br>25V<br>25V<br>25V<br>25V  | 1%   |      |
| 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 270 271 272 273 274 275 278 279 280 281                          | 2 L104 0 2 R78 1 1 2 U82 0 0 0 0 1 U86 0 0 1 D44 2 VR3 1 R425 0 2 CN39 0 0 1 U87 1 U97 0 0 U97 1 U87 1 U97 0  | U85 U85 UR4 CN40 U88 U92 L56 L58 C209 C173 C195 C2114 C890 C216 C285  | C210<br>C174<br>C866<br>C865<br>C167<br>C891<br>C162<br>C286   | C867<br>C175<br>C883<br>C200<br>C892<br>C884   | C869<br>C177<br>C880 C882 C888   |         | C947  R426  GND1  X3       |                     |       |                | X                                     | EMIFIL IG Chip capacitor Chip resistor Audio Amp chip capacitor Chip resistor Chip resistor Resistor Chip resistor Resistor Chip resistor Resistor Chip resistor Resistor Ghip Companion Chip PCIE Switch crystal oscillator | BLM18KG260TZ1 NFM31HK223R1H3 TestIC 4.7uF 49.9k MAX9813LEKA+T 100uF GCM188R71C104KA37 IPG20N04S4L-08 47uF* 10uF LSF0101DRYR 100 4.7uF AD1580ARTZ 20k 820 10k SJ-3523-SMT 62 TPD4E05U06DQAR TPD5S116YFFR MAX4888BETI+ NX2016SA[16.66MHz/10pF/15ppm]* NZ2016SH[16.66MHz/50ppm] GND 0.015uF 0.003uF 0.068uF NX2016SA[16.64MHz/10pF/15ppm]* NZ2016SH[16.64MHz/45ppm] 0.15uH 0.24uH 0.33uH 5P49V6901A 0.01uF  0.015uF 0.002uF 0.002uF  | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13 GCM188R71C104KA37 IPG20N04S4L-08 or sqj912aep GCM32ER70J476KE19 GCM21BC71C106KE36 LSF0101DRYR MCR01MZPF1000 GRM155R61A475MEAA AD1580ARTZ ST-2TA203 MCR01MZPF1002 SJ-3523-SMT MCR01MZPF6200 MCR01MZPF6200 MCR01MZPFF002 SJ-3523-SMT MCR01MZPFFR MAX4888BETI+ NX2016SA-16.66MHz-CHP-CZS-41 NZ2016SH-16.66MHz-CHP-CZS-41 NZ2016SH-16.66MHz-CHP-CZS-41 NZ2016SA-16.66MHz-CHP-CZS-41 NZ2016SH-16.64MHz-RNA5013C or MC2520K16.6600C1XESX GND GCM155R71E153KA55 GCM155R71E633KA55 NX2016SA-16.64MHz-RNA5013C or SG2010ECAA 16.64MHz-TTJA or MC2016K16.6400C16ESH SPM5030VT-R15M-D SPM5030VT-R15M-D TFM201610ALMAR24MTAA TFM201610ALMAR24MTAA TFM201610ALMAR23MTAA 5P49V6901AdddNLGW2 GCM155R71H103KA55 GCM155R71H103KA55 GCM155R71H103KA55 GCM155R71H103KA55 GCM155R71H103KA55   | murata murata murata - tdk rohm maxim murata analog devices copal rohm rohm cui inc rohm ti ti maxim ndk ndk or seiko epson or kyocera - murata murata murata dk ndk or seiko epson or kyocera tdk  | 3216 1608 1005 3225 1608 3225 2012 1005 1005 1005 1005 1005 1005 1                   | 6.3V<br>16V<br>6.3V<br>116V<br>110V<br>110V<br>225V<br>225V<br>225V<br>25V<br>25V<br>25V<br>25V<br>25V<br>25V | 1%   |      |
| 244 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 271 272 273 274 275 278 279 280 281 282                          | 2 L104 0 2 R78 1 1 2 U82 0 0 0 1 U86 0 0 1 D44 2 VR3 1 R425 0 0 2 CN39 0 0 1 U87 1 U97 0 0 1 L111 2 L55 2 L57 1 L61 1 L111 2 L55 2 L57 1 U61 1 L111 2 L55 2 L67 1 U61 1   | U85 U85 U85 U88 U89 U88 U89 U88 U99 U99 U56 U56 U57 U88 U99 U99 U57 U58 U68 U68 U68 U68 U68 U68 U68 U68 U68 U6                                | C210<br>C174<br>C866<br>C167<br>C891<br>C162<br>C286<br>C536<br>C547   | C867<br>C175<br>C883<br>C200<br>C892<br>C884   | C869<br>C177<br>C880 C882 C883<br>C870<br>C889   | 35 C886 | C947  R426  GND1  X3       | C559                |       |                | X                                     | EMIFIL IC IC Chip resistor Audio Amp chip capacitor Chip resistor Audio Amp chip capacitor Chip capacitor Chip capacitor Chip capacitor Chip capacitor Chip capacitor Level Translator Chip resistor Chip resistor Chip resistor Resistor Audio IN/OUT CN Chip resistor ESD Protection Device HDMI Companion Chip PCIE Switch crystal oscillator chip capacitor chip capacitor chip capacitor chip capacitor chip capacitor Inductor Inductor Inductor Inductor Inductor Program Clock Generator chip capacitor  | BLM18KG260TZ1 NFM31HK223R1H3 TestIC 4.7uF 49.9k MAX9813LEKA+T 100uF GCM188R71C104KA37 IPG20N04S4L-08 47uF* 10uF LSF0101DRYR 100 4.7uF AD1580ARTZ 20k 820 10k SJ-3523-SMT 62 TPD4E05U06DQAR TPD5S116YFFR MAX4888BETI+ NX2016SA[16.66MHz/10pF/15ppm]* NZ2016SH[16.66MHz/10pF/15ppm]* NZ2016SA[16.64MHz/10pF/15ppm]* NZ2016SA[16.64MHz/45ppm] 0.015uF 0.03uF 0.03uF 0.05uH 0.15uH 0.15uH 0.15uH 0.33uH 5P49V6901A 0.01uF   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13 GGM18R71C104KA37 IPG20N04S4L-08 or sqj912aep GGM32ER70J476KE19 GCM21BC71C106KE36 LSF0101DRYR MCR01MZPF1000 GRM155R61A475MEAA AD1580ARTZ ST-2TA203 MCR01MZPF1002 SJ-3523-SMT MCR01MZPF1002 SJ-3523-SMT MCR01MZPF6200 TPD4E05U06DQAR TPD5S116YFFR MAX4888BETI+ NX2016SA-16.66MHz-CHP-CZS-41 NX2016SH-16.66MHz-CHP-CZS-41 NZ2016SH-16.66MHz-CHP-CZS-41 NZ2016SH-16.66MHz-CHP-CZS-41 NZ2016SH-16.66MHz-CHP-CZS-53 NZ2016SH-16.64MHz-CHP-CZS-53 NZ2016SH-16.64MHZ-THA   | murata murata  | 3216 1608 1005 3225 1608 3225 2012 1005 1005 1005 1005 1005 1005 1                   | 6.3V<br>16V<br>6.3V<br>16V<br>10V<br>10V<br>25V<br>25V<br>25V<br>25V<br>25V<br>50V<br>50V                     | 1%   |      |
| 244 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 271 272 273 274 275 278 279 280 281 282                          | 2 L104 0 L104 1 L110 1 L111 2 L55 1 L05 1 L061 1 K4 2 VR3 1 R425 0 L07 1 U87 2 U89 1 U97 0 L07 0  | U85 U85 U85 U88 U88 U88 U88 U88 U88 U88   | U90<br>C210<br>C174<br>C866<br>C865<br>C167<br>C891<br>C162<br>C286<br>C547<br>C547<br>C544<br>C840          | C867<br>C175<br>C883<br>C868<br>C200<br>C892<br>C884   | C869<br>C177<br>C880 C882 C889<br>C870<br>C889<br>C537 C543<br>C549<br>C837<br>C842            | 35 C886 | GND1  X3                   | C559                |       |                | X                                     | EMIFIL IG Chip capacitor Chip resistor Audio Amp chip capacitor Chip resistor Chip resistor Resistor Chip resistor Resistor Chip resistor Resistor Chip resistor Resistor Audio IN/OUT CN Chip resistor ESD Protection Device HDMI Companion Chip PCIE Switch crystal oscillator crystal oscillator crystal oscillator crystal oscillator Inductor Inductor Inductor Inductor Inductor Inductor Inductor Inductor Inductor Chip capacitor   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC 4.7uF 49.9k MAX9813LEKA+T 100uF GCM188R71C104KA37 IPG20N04S4L-08 47uF* 10uF LSF0101DRYR 100 4.7uF AD1580ARTZ 20k 820 10k SJ-3523-SMT 62 TPD4E05U06DQAR TPD5S116YFFR MAX4888BETI+ NX2016SA[16.66MHz/10pF/15ppm]* NZ2016SH[16.66MHz/10pF/15ppm]* NZ2016SA[16.64MHz/10pF/15ppm]* NZ2016SA[16.64MHz/45ppm] 0.015uF 0.03uF 0.03uF 0.05uH 0.15uH 0.15uH 0.15uH 0.33uH 5P49V6901A 0.01uF   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13 GGM188R71C104KA37 IPG20N04S4L-08 or sqj912aep GCM32ER70J476KE19 GCM21BC71C106KE36 LSF0101DRYR MCR01MZPF1000 GRM155R61A475MEAA AD1580ARTZ ST-ZTA203 MCR01MZPF1002 SJ-3523-SMT MCR01MZPF6200 MCR01MZPF1002 SJ-3523-SMT MCR01MZPF6200 TPD4E05U06DQAR TPD5S116YFFR MAX488BETI+ NX2016SA-16.66MHz-CHP-CZS-41 NZ2016SH-16.66MHz-NSC5021A or SG210SEA 16.6600MHz or MC2520K16.6600C1XESX GND GCM155R71E153KA55 GCM155R71E153KA55 GCM155R71E06AHRJ-RNSC5021A or MC2510GAHABASA55 NZ2016SH-16.64MHz-RNA5013C or SG2016CAA 16.64MHz-TTJA or MC2016K16.6400C16ESH SPM5030VT-R15M-D TFM201610ALMAR24MTAA TFM201610ALMAR24MTAA TFM201610ALMAR23MTAA 5P49V6901AdddNLGW2 GCM155R71H233KA55 GCM155R71H153KA55 GCM155R71H103KA55 GCM155R71H103KA55 GCM155R71H103KA55 GCM155R71H103KA55 GCM155R71H103KA55   | murata murata  | 3216 1608 1005 3225 1608 3225 2012 1005 1005 1005 1005 1005 1005 1                   | 6.3V<br>16V<br>6.3V<br>16V<br>10V<br>25V<br>25V<br>25V<br>50V<br>50V<br>50V<br>50V<br>6.3V                    | 1%   |      |
| 244 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 271 272 273 274 275 278 279 280 281 282                          | 2 L104 0 0 1 L104 0 0 0 0 0 1 U86 0 0 1 D44 2 VR3 1 R425 0 0 0 0 1 D44 2 INS 1 R425 0 0 1 L108 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | C877 R398 U83 U85 U85 CN40 CN40 U88 U92 C16 L56 L58 C209 C173 C195 C214 C890 C216 C285 C285 C863 C534 C560 C839 C864 C564 C564 C964 C964 C964 | C210<br>C174<br>C865<br>C167<br>C891<br>C162<br>C286<br>C535<br>C547<br>C564<br>C840<br>C900<br>C900<br>C945 | C867<br>C175<br>C883<br>C883<br>C200<br>C892<br>C384<br>C573<br>C841<br>C928<br>C928<br>C959 | C869<br>C177<br>C880 C882 C883<br>C870<br>C537<br>C549<br>C837<br>C842<br>C942<br>C942<br>C960 | 35 C886 | GND1  X3                   | C559                |       |                | X                                     | EMIFIL IG Chip capacitor Chip resistor Audio Amp chip capacitor Chip resistor Chip resistor Resistor Chip resistor Resistor Chip resistor Resistor Chip resistor Resistor Audio IN/OUT CN Chip resistor ESD Protection Device HDMI Companion Chip PCIE Switch crystal oscillator crystal oscillator crystal oscillator crystal oscillator Inductor Inductor Inductor Inductor Inductor Inductor Inductor Inductor Inductor Chip capacitor   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC 4.7uF 49.9k MAX9813LEKA+T 100uF GCM188R71C104KA37 IPG20N04S4L-08 47uF* 10uF LSF0101DRYR 100 4.7uF AD1580ARTZ 20k 820 10k SJ-3523-SMT 62 TPD4E05U06DQAR TPD5S116YFFR MAX4888BETI+ NX2016SA[16.66MHz/10pF/15ppm]* NZ2016SH[16.66MHz/10pF/15ppm]* NZ2016SA[16.64MHz/10pF/15ppm]* NZ2016SA[16.64MHz/45ppm] 0.015uF 0.03uF 0.03uF 0.05uH 0.15uH 0.15uH 0.15uH 0.33uH 5P49V6901A 0.01uF   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13 GGM188R71C104KA37 IPG20N04S4L-08 or sqj912aep GCM32ER70J476KE19 GCM21BC71C106KE36 LSF0101DRYR MCR01MZPF1000 GRM155R61A475MEAA AD1580ARTZ ST-ZTA203 MCR01MZPF1002 SJ-3523-SMT MCR01MZPF6200 MCR01MZPF1002 SJ-3523-SMT MCR01MZPF6200 TPD4E05U06DQAR TPD5S116YFFR MAX488BETI+ NX2016SA-16.66MHz-CHP-CZS-41 NZ2016SH-16.66MHz-NSC5021A or SG210SEA 16.6600MHz or MC2520K16.6600C1XESX GND GCM155R71E153KA55 GCM155R71E153KA55 GCM155R71E06AHRJ-RNSC5021A or MC2510GAHABASA55 NZ2016SH-16.64MHz-RNA5013C or SG2016CAA 16.64MHz-TTJA or MC2016K16.6400C16ESH SPM5030VT-R15M-D TFM201610ALMAR24MTAA TFM201610ALMAR24MTAA TFM201610ALMAR23MTAA 5P49V6901AdddNLGW2 GCM155R71H233KA55 GCM155R71H153KA55 GCM155R71H103KA55 GCM155R71H103KA55 GCM155R71H103KA55 GCM155R71H103KA55 GCM155R71H103KA55   | murata murata  | 3216 1608 1005 3225 1608 3225 2012 1005 1005 1005 1005 1005 1005 1                   | 6.3V<br>16V<br>6.3V<br>16V<br>10V<br>25V<br>25V<br>25V<br>50V<br>50V<br>50V<br>50V<br>6.3V                    | 1%   |      |
| 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285      | 2 L104 0 0 1 L104 0 0 0 0 0 1 U86 0 0 1 D44 2 VR3 1 R425 0 0 0 0 1 D44 2 INS 1 R425 0 0 1 L108 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | C877 R398 U83 U85 U85 CN40 CN40 U88 U92 C16 L56 L58 C209 C173 C195 C214 C890 C216 C285 C285 C863 C534 C560 C839 C864 C564 C564 C964 C964 C964 | C210<br>C174<br>C866<br>C865<br>C167<br>C286<br>C535<br>C547<br>C564<br>C864<br>C900                         | C867<br>C175<br>C883<br>C883<br>C200<br>C892<br>C384<br>C573<br>C841<br>C928<br>C928<br>C959 | C869<br>C177<br>C880 C882 C883<br>C870<br>C537<br>C549<br>C837<br>C842<br>C942<br>C942<br>C960 | 85 C886 | C947  R426  GND1  X3  C946 | C559                | C563  | C568 C572      | X                                     | EMIFIL IG Chip capacitor Chip resistor Audio Amp chip capacitor Chip resistor Chip resistor Chip resistor Chip resistor Resistor Audio IN/OUT CN Chip resistor ESD Protection Device HDMI Companion Chip PCIE Switch crystal oscillator | BLM18KG260TZ1 NFM31HK223R1H3 TestIC 4.7uF 49.9k MAX9813LEKA+T 100uF  GCM188R71C104KA37 IPG20N04S4L-08 47uF* 10uF LSF0101DRYR 100 4.7uF AD1580ARTZ 20k 820 10k SJ-3523-SMT 62 TPD4E05U06DQAR TPD5S116YFR MAX4888ETI+ NX2016SA[16.66MHz/10pF/15ppm]* NZ2016SH[16.66MHz/50ppm] GND 0.015uF 0.033uF 0.068uF NX2016SA[16.64MHz/45ppm] 0.15uH 0.15uH 0.15uH 0.15uH 0.24uH 0.33uH 5P49V6901A 0.01uF 0.0015uF 0.002uF 0.007uF   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13 GGM188R71C104KA37 IPG20N04S4L-08 or sqj912aep GGM32ER70J476KE19 GCM21BC71C106KE36 LSF0101DRYR MCR01MZPF1000 GRM155R61A475MEAA AD1580ARTZ ST-ZTA203 MCR01MZPF1002 SJ-3523-SMT MCR01MZPF1002 SJ-3523-SMT MCR01MZPF1002 SJ-3523-SMT MCR01MZPF6200 TPD4E05U06DQAR TPD5S116YFFR MAX4888ETI+ NX2016SA-16.66MHz-CHP-CZS-41 NZ2016SH-16.66MHz-NSC5021A or SG210SEBA 16.6600MHz or MC2520K16.6600C1XESX GND GCM155R71E153KA55 GCM155R71E33XA55 NX2016SA-16.64MHz-RNA5013C or SG2016CAA 16.64MHz-RNA5013C or SG2016CAA 16.64MHz-RNA5013C or SG2016CAA 16.64MHz-TJA or MC25216K16.6400C16ESH SPM6545VT-R15M-D SPM5030VT-R15M-D TFM201610ALMAR23MTAA 5P49V6901AdddNLGW2 GCM155R71H153KA55 GCM155R71H103KA55 GCM155R71H103KA55 GCM155R71H103KA55 GCM155R71H103KA55 GCM155R71H103KA55 GCM155R71H153KA55 GCM155R71H103KA55   | murata murata  | 3216 1608 1005 3225 1608 3225 2012 1005 1005 1005 1005 1005 1005 1                   | 6.3V<br>16V<br>6.3V<br>16V<br>10V<br>25V<br>25V<br>25V<br>50V<br>50V<br>50V<br>50V<br>6.3V                    | 1%   |      |
| 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282          | 2 L104 0 0 1 L104 0 0 0 0 0 1 U86 0 0 1 D44 2 VR3 1 R425 0 0 0 0 1 D44 2 INS 1 R425 0 0 1 L108 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | C877 R398 U83 U85 U85 CN40 CN40 U88 U92 C16 L56 L58 C209 C173 C195 C214 C890 C216 C285 C285 C863 C534 C560 C839 C864 C564 C564 C964 C964 C964 | C210<br>C174<br>C865<br>C167<br>C891<br>C162<br>C286<br>C535<br>C547<br>C564<br>C840<br>C900<br>C900<br>C945 | C867<br>C175<br>C883<br>C883<br>C200<br>C892<br>C384<br>C573<br>C841<br>C928<br>C928<br>C959 | C869<br>C177<br>C880 C882 C883<br>C870<br>C537<br>C549<br>C837<br>C842<br>C942<br>C942<br>C960 | 35 C886 | C947  R426  GND1  X3  C946 | C559  C966  D46 EH2 | C563  |                | X                                     | EMIFIL IG Chip capacitor Chip resistor Audio Amp chip capacitor Chip capacitor MOSFET Chip capacitor Chip capacitor Chip capacitor Chip capacitor Chip capacitor Chip resistor Chip resistor Chip resistor Chip resistor Resistor Chip resistor Audio IN/OUT CN Chip resistor ESD Protection Device HDMI Companion Chip PCIE Switch crystal oscillator GND Connector chip capacitor chip capacitor crystal oscillator Inductor Inductor Inductor Inductor Inductor Inductor Inductor Inductor Inductor Chip capacitor   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC 4.7uF 49.9k MAX9813LEKA+T 100uF GCM188R71C104KA37 IPG20N04S4L-08 47uF* 10uF LSF0101DRYR 100 4.7uF AD1580ARTZ 20k 820 10k SJ-3523-SMT 62 TPD4E05U06DQAR TPD5S116YFFR MAX4888BETI+ NX2016SA[16.66MHz/10pF/15ppm]* NZ2016SH[16.66MHz/10pF/15ppm]* NZ2016SA[16.64MHz/10pF/15ppm]* NZ2016SH[16.64MHz/45ppm] 0.15uH 0.15uH 0.15uH 0.24uH 0.33uH 5P49V6901A 0.01uF  0.0068uF 0.007uF 0.0068uF 0.007uF 0.0068uF 0.0015uF   | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13 GGM188R71C104KA37 IPG20N04S4L-08 or sqj912aep GCM32ER70J476KE19 GCM21BC71C106KE36 LSF0101DRYR MCR01MZPF1000 GRM155R61A475MEAA AD1580ARTZ ST-ZTA203 MCR01MZPF1002 SJ-3523-SMT MCR01MZPF6200 MCR01MZPF1002 SJ-3523-SMT MCR01MZPF6201 TPD4E05U06DQAR TPD5S116YFFR MAX4888BETI+ NX2016SA-16.66MHz-CHP-CZS-41 NZ2016SH-16.66MHz-NSC5021A or SG210SEBA 16.6600MHz or MC2520K16.6600C1XESX GND GCM155R71E153KA55 GCM155R71E133KA55 GCM155R71E063KA55 NZ2016SH-16.64MHz-RNA5013C or SG2016CAA 16.64MHz-TJJA or MC2016K16.6400C16ESH SPM6545VT-R15M-D SPM5030VT-R15M-D TFM201610ALMAR24MTAA TFM201610ALMAR24MTAA TFM201610ALMAR24MTAA TFM201610ALMAR23MTAA 5P49V6901AdddNLGW2 GCM155R71H153KA55 GCM155R71H153KA55 GCM155R71H103KA55 GCM155R71H103KA55  | murata murata - tdk rohm maxim murata infineon or vishay murata analog devices copal rohm rohm cui inc rohm ti ti ti maxim murata analog devices copal rohm cui inc rohm cui inc rohm ti ti ti murata dk ndk or seiko epson or kyocera - murata murata dk ndk or seiko epson or kyocera tdk tdk tdk tdk tdk tdk tdk idt murata   | 3216 1608 3225 1608 3225 1608 3225 1005 1005 1005 1005 1005 1005 1005 1              | 6.3V<br>16V<br>6.3V<br>16V<br>10V<br>10V<br>225V<br>25V<br>25V<br>50V<br>50V<br>50V<br>6.3V<br>6.3V           | 1%   |      |
| 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 278 279 280 281 282 283 284 285      | 2 L104 0 0 1 L104 0 0 0 0 0 1 U86 0 0 1 D44 2 VR3 1 R425 0 0 0 0 1 D44 2 INS 1 R425 0 0 1 L108 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | U85  U85  U85  U88  U88  U88  U88  U88  | C210<br>C174<br>C865<br>C167<br>C891<br>C162<br>C286<br>C535<br>C547<br>C564<br>C840<br>C900<br>C945         | C867<br>C175<br>C883<br>C883<br>C200<br>C892<br>C384<br>C573<br>C841<br>C928<br>C928<br>C959 | C869<br>C177<br>C880 C882 C883<br>C870<br>C537<br>C549<br>C837<br>C842<br>C942<br>C942<br>C960 | 35 C886 | C947  R426  GND1  X3  C946 | C559  C966  D46 EH2 | C563  | C568 C572      | X                                     | EMIFIL IG Chip capacitor Chip resistor Audio Amp chip capacitor Chip resistor Resistor Chip resistor Resistor Resistor Chip resistor Resistor Resistor Audio IN/OUT CN Chip resistor ESD Protection Device HDMI Companion Chip PCIE Switch crystal oscillator crystal oscillator crystal oscillator crystal oscillator crystal oscillator crystal oscillator chip capacitor  | BLM18KG260TZ1 NFM31HK223R1H3 TestIC 4.7uF 49.9k MAX9813LEKA+T 100uF GCM188R71C104KA37 IPG20N04S4L-08 47uF* 10uF LSF0101DRYR 100 4.7uF AD1580ARTZ 20k 820 10k SJ-3523-SMT 62 TPD4E05U06DQAR TPD5S116VFFR MAX488BETI+ NX2016SA[16.66MHz/10pF/15ppm]* NZ2016SH[16.66MHz/50ppm] GND 0.015uF 0.033uF 0.068uF NX2016SA[16.64MHz/45ppm] 0.15uH 0.24uH 0.33uH 5P49V6901A 0.01uF  0.005uF 0.007uF 0.0074uF 0.008uF 0.008uF 0.007uF 0.008uF 0.007uF 0.008uF 0.007uF 0.008uF 0.007uF 0.008uF 0.008uF 0.008uF 0.007uF 0.008uF | BLM18KG260TZ1 NFM31HK223R1H3 TestIC CGA3E1X5R0J475KT MCR01MZPF4992 MAX9813LEKA+T GRT32ER60J107ME13 GGM188R71C104KA37 IPG20N04S4L-08 or sqj912aep GCM32ER70J476KE19 GCM21BC71C106KE36 LSF0101DRYR MCR01MZPF1000 GRM15SR61A475MEAA AD1580ARTZ ST-2TA203 MCR01MZPF1002 SJ-3523-SMT MCR01MZPF6200 MCR01MZPF6200 MCR01MZPFF002 SJ-3523-SMT MCR01MZPFFR MAX4888BETI+ NX2016SA-16.66MHz-CHP-CZS-41 NZ2016SH-16.66MHz-CHP-CZS-41 NZ2016SH-16.66MH2-CHP-CZS-41 NZ2016SH-16.66MH2-CHP-CZS-41 NZ2016SH-16.64MHz-RNA5013C or MC2520K16.6600C1XESX GND GCM155R71E153KA55 GCM155R71C683KA55 NX2016SA-16.64MHz-RNA5013C or SG2010CAA 16.64MHz-TTJA or MC2016K16.6400C16ESH SPM6545VT-R15M-D SPM5030VT-R15M-D TFM201610ALMAR24MTAA TFM201610ALMAR24MTAA TFM201610ALMAR23MTAA 5P49V6901AdddNLGW2 GCM155R71H123KA55 GCM155R71H103KA55 GCM155R71H23KA55 GCM155R71H23KA55 GCM155R71H103KA55 GCM155R71H683KE02 GCM155R71H683KE02 GCM155R71H683KE02 GCM155R71H683KE02 GCM155R71H683KE02 GCM155R71H683KE02 GCM155R71H683KE02 GCM155R71H683KE02 GCM155R71H683KE02 GCM15SR71H683KE02 GCM15R71H683KE02 GCM15SR71H683KE02   | murata murata - tdk rohm maxim murata infineon or vishay murata analog devices copal rohm rohm cui inc rohm ti ti maxim ndk ndk or seiko epson or kyocera - murata murata murata murata murata murata ndk ndk or seiko epson or kyocera tdk  | 3216 1608 1005 3225 1608 3225 2012 1005 1005 1005 1005 1005 1005 1                   | 6.3V<br>16V<br>6.3V<br>16V<br>10V<br>10V<br>25V<br>25V<br>25V<br>25V<br>50V<br>50V<br>50V<br>6.3V             | 1%   |      |

291 Item changed