

# [SCT4013DRC15-EVK-A08] BOM



## [Power Board]

| Sl. No. | Designator                                                             | Value            | Description                                                  | Package     | Qty | Manufacturer      | Part Number          |
|---------|------------------------------------------------------------------------|------------------|--------------------------------------------------------------|-------------|-----|-------------------|----------------------|
| 1       | C100, C104, C105, C108, C110, C114                                     | 1000pF           | Capacitor, SMD, Ceramic,1000pF,50V,5%, 0805, X5R             | 0805        | 6   | Murata            | GCM216R71H102JA37D   |
| 2       | C101                                                                   | 3uF              | Parallel Capacitors, SMD, Ceramic,3uF,1.1kV,5%, Th, CA       | Th          | 1   | Wurth             | 890734427005CS       |
| 3       | C102, C103, C106, C107, C109, C111                                     | 0.2uF            | Parallel Capacitors, SMD, Ceramic,0.2uF,630V,5%,2 J lead, CA | 2 J lead    | 6   | TDK               | CAA572C0G2J204J640LJ |
| 4       | C112                                                                   | 10uF             | Capacitor, SMD, Ceramic,10uF,25V,10%,0805, X7S               | 0805        | 1   | KEMET             | C2012X7S1E106K125AE  |
| 5       | C113                                                                   | 1uF              | Capacitor, SMD, Ceramic,1uF,35V,10%,0603, X7R                | 0603        | 1   | TDK               | CGA3E1X7R1V105K080AC |
| 6       | C115                                                                   | 0.1uF            | Capacitor, SMD, Ceramic,0.1uF,50V,10%,0402, X7R              | 0402        | 1   | TDK               | CGA2B3X7R1H104K050BB |
| 7       | C116                                                                   | 10nF             | Capacitor, SMD, Ceramic,10nF,16V,5%,0805, X5R                | 0805        | 1   | KEMET             | C0805C103J4JACTU     |
| 8       | C117                                                                   | 1uF              | Capacitor, SMD, Ceramic,1uF,16V,10%,0805, X5R                | 0805        | 1   | KEMET             | C0805C105K4RACAUTO   |
| 9       | D100, D101, D102, D103, D104, D105                                     |                  | Schottky Diodes & Rectifiers<br>40V 1A 2-Pin, SMD            |             | 6   | ROHM              | RB160MM-40TR         |
| 10      | F100                                                                   | Fuse Holder      | FUSE, TH, Fuse Holder                                        |             | 1   | Littelfuse        | LSRK045.T            |
| 11      | FAN100x                                                                | FAN              | FAN, Axial, 24V,3W                                           |             | 1   | Wakefield Thermal | DC0502024M2B         |
| 12      | FB100, FB101                                                           |                  | Resistor 0R                                                  | 1206        | 2   | ROHM              | PMR18EZPJ000         |
| 13      | HS100                                                                  | N44              | Heatsink, N44                                                |             | 1   | FISHER            | LAM 5 170 ME         |
| 14      | J100, J101, J102, J107, J109, J110, J115, J118, J119, J123, J125, J126 |                  | Connector, TH,12 postions,79107-7005                         |             | 12  | Molex             | 79107-7005           |
| 15      | J103                                                                   |                  | Connector, TH, 38 positions,79107-7068                       |             | 1   | Molex             | 79107-7068           |
| 16      | J104, J108, J113, J120, J124                                           |                  | Connector, TH, 74650074R                                     |             | 5   | Würth Elektronik  | 74650074R            |
| 17      | J105, J106, J111, J112, J116, J117, J121, J122                         |                  | Connector RF, TH, 5 postions,0734151472                      |             | 8   | MOLEX             | 734151472            |
| 18      | J114, J129, J131                                                       | CON_HDR<br>2x5_Z | Connector, TH,10 positions, CON_HDR_2x5_Z                    |             | 3   | SAMTEC            | SSW-105-01-G-D       |
| 19      | J127, J128, J130                                                       | DIP<br>5.08x2N   | Connector, TH,2 positions, DIP 5.08x2N                       | DIP 5.08x2N | 3   | MOLEX             | 22-03-5025           |
| 20      | LD100                                                                  |                  | LED, SMD, GREEN 0603,                                        | 0603        | 1   | ROHM              | SML-D12P8WT86        |

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|---------|------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------|----------|-----|------------------------|------------------|
| 21      | Q100, Q101, Q102, Q103, Q104, Q105                         | SCT4013DRC15 | MOSFET, N CH, SCT4013DRC15                                                                       |          | 6   | ROHM                   | SCT4013DRC15     |
| 22      | R100, R101, R102, R103, R104, R105                         | 3mOhm        | Shunt Resistor, SMD, 3mOhm,1%,2512,4W                                                            | 2512     | 6   | ROHM                   | PSR100KTQFL3L00  |
| 23      | R106, R107, R108, R109, R110                               | 300K         | Resistor, SMD, 300K,200V,1%,1206,500mW                                                           | 1206     | 5   | ROHM                   | ESR18EZPF3003    |
| 24      | R111                                                       | 470R         | Resistor, SMD, 470R, 1%,0805,400mW                                                               | 0805     | 1   | ROHM                   | ESR10EZPD4700    |
| 25      | R112, R124, R132                                           | 180R         | Resistor, SMD, 180R, 5%,0805,500mW                                                               | 0805     | 3   | ROHM                   | ESR10EZPJ181     |
| 26      | R113, R114, R115, R116, R117, R118                         | 12K          | Resistor, SMD, 12K, 1%,0603,250mW                                                                | 0603     | 6   | ROHM                   | ESR03EZPD1202    |
| 27      | R119, R120, R121, R122, R123, R127, R128, R129, R130, R131 | 300K         | Resistor, SMD, 300K,200V,1%,0805,500mW                                                           | 0805     | 10  | ROHM                   | ESR10EZPF3003    |
| 28      | R125                                                       | 10K          | Resistor, SMD, 10K, 1%,0805,400mW                                                                | 0805     | 1   | ROHM                   | ESR10EZPD1002    |
| 29      | R126                                                       | 56R          | Resistor, SMD, 56R, 1%,0805,400mW                                                                | 0805     | 1   | ROHM                   | ESR10EZPD56R0    |
| 30      | R133, R134, R135, R136, R137, R138                         | 1K           | Resistor, SMD, Resistor,1K,150V±1%,0805,0.40W                                                    | 0805     | 6   | ROHM                   | ESR10EZPF1001    |
| 31      | U100                                                       | NME1205SC    | Isolated DC/DC Converters - Through Hole 1W 12-5V SIP SINGLE DC/DC, SMD, NME1205SC, (SOP-8)      | (SOP-8)  | 1   | Murata Power Solutions | NME1205SC        |
| 32      | U101                                                       |              | Buffers & Line Drivers Automotive octal buffers and line drivers with 3-state outputs -40 to 125 | 20-TSSOP | 1   | Texas Instruments      | SN74HCS240QPWRQ1 |

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## [Gate driver Board]

| Sl. No. | Designator                                                                                                                                                                         | Value      | Description                                                             | Package     | Qty | Manufacturer           | Part Number          |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------|-------------|-----|------------------------|----------------------|
| 1       | C100, C101, C103, C200, C201, C203, C300, C301, C303, C400, C401, C403, C500, C501, C503, C600, C601, C603                                                                         | 10uF       | Multilayer Ceramic Capacitors MLCC - SMD/SMT CGA 1206 35V 10uF X7R 20%  | 1206        | 18  | TDK                    | CGA5L1X7R1V106M160AC |
| 2       | C102, C106, C109, C113, C115, C202, C206, C209, C213, C215, C302, C306, C309, C313, C315, C402, C406, C409, C413, C415, C502, C506, C509, C513, C515, C602, C606, C609, C613, C615 | 0.1uF      | Multilayer Ceramic Capacitors MLCC - SMD/SMT CGA 0402 50V 0.1uF X7R 10% | 0402        | 30  | TDK                    | CGA2B3X7R1H104K050BB |
| 3       | C104, C110, C204, C210, C304, C310, C404, C410, C504, C510, C604, C610                                                                                                             | 1000pF     | Multilayer Ceramic Capacitors MLCC - SMD/SMT CGA 0603 35V 1uF X7R 10%   | 0603        | 12  | Murata                 | GCM188R71H102KA37J   |
| 4       | C105, C107, C108, C111, C112, C205, C207, C208, C211, C212, C305, C307, C308, C311, C312, C405, C407, C408, C411, C412, C505, C507, C508, C511, C512, C605, C607, C608, C611, C612 | 1uF        | Multilayer Ceramic Capacitors MLCC - SMD/SMT CGA 0603 35V 1uF X7R 10%   | 0603        | 30  | TDK                    | CGA3E1X7R1V105K080AC |
| 5       | C114, C214, C314, C414, C514, C614                                                                                                                                                 | 10uF       | Capacitor, SMD, Ceramic, 10uF, 25V, 10%, 0805, X7S                      | 0805        | 6   | KEMET                  | C2012X7S1E106K125AE  |
| 6       | D100, D200, D300, D400, D500, D600                                                                                                                                                 |            | Schottky Barrier Diodes, SMD, SOD-323HE-2                               | SOD-323HE-2 | 6   | ROHM                   | RB160VAM-60TR        |
| 7       | D101, D201, D301, D401, D501, D601                                                                                                                                                 |            | Diode Schottky                                                          |             | 6   | ROHM                   | RB160MM-40TR         |
| 8       | J100, J200, J300, J400, J500, J600                                                                                                                                                 | 1511193112 | Connector, TH, 12 positions                                             |             | 6   | MOLEX                  |                      |
| 9       | L100, L200, L300, L400, L500, L600                                                                                                                                                 | 20mH       | Common Mode Choke, TH, 20mH, 400V AC                                    |             | 6   | Murata Electronics     | DLW21PH201XQ2L       |
| 10      | LD100, LD200, LD300, LD400, LD500, LD600                                                                                                                                           |            | Standard LEDs - SMD Green                                               | 0603        | 6   | ROHM                   | SML_D12P8WT86        |
| 11      | R100, R102, R200, R202, R300, R302, R400, R402, R500, R502, R600, R602                                                                                                             | 6.8R       | Resistor, SMD, 6.8R, 1%, 1206, 500mW                                    | 1206        | 12  | ROHM                   | ESR18EZPF6R80        |
| 12      | R101, R103, R107, R201, R203, R207, R301, R303, R307, R401, R403, R407, R501, R503, R507, R601, R603, R607                                                                         | 100R       | Resistor, SMD, 100R, 1%, 0805, 400mW                                    | 0805        | 18  | ROHM                   | ESR10EZPF1000        |
| 13      | R104, R204, R304, R404, R504, R604                                                                                                                                                 | 4.7k       | Resistor, SMD, 4.7k, 1%, 0805, 400mW                                    | 0805        | 6   | ROHM                   | ESR10EZPD4701        |
| 14      | R105, R205, R305, R405, R505, R605                                                                                                                                                 | 0R         | Resistor, SMD, 0R, 1%, 1206                                             | 1206        | 6   | ROHM                   | PMR18EZPJ000         |
| 15      | R106, R206, R306, R406, R506, R606                                                                                                                                                 | 470R       | Resistor, SMD, 470R, 0.5%, 0805, 400mW                                  | 0805        | 6   | ROHM                   | ESR10EZPD4700        |
| 16      | U100, U200, U300, U400, U500, U600                                                                                                                                                 |            | Gate Drivers Isolation Voltage 3750 Vrms 1ch Gate Driver                | SSOP-B10W   | 6   | ROHM                   | BM61T41RFV-CE2       |
| 17      | U101, U201, U301, U401, U501, U601                                                                                                                                                 |            | Isolated DC/DC Converters - Through Hole DC/DC TH 12-18/2.5V            |             | 6   | Murata Power Solutions |                      |
| 18      | U102, U202, U302, U402, U502, U602                                                                                                                                                 |            | LDO, SMD, IC, BD450M2WFP3-CE2, 3.3V, SOT223-4(F)                        | SOT223-4(F) | 6   | ROHM                   | BD450M2WFP3-CE2      |

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## [Sensing Board]

| Sl no | Designator                                                                                                                                                                         | Value      | Description                                               | Package  | Qty | Manufacturer           | Manufacturer Part Number |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------|----------|-----|------------------------|--------------------------|
| 1     | C100, C101, C113, C114, C115, C200, C201, C213, C214, C215, C300, C301, C313, C314, C315, C400, C401, C413, C414, C415, C500, C501, C513, C514, C515, C600, C601, C613, C614, C615 | 1uF        | Capacitor, SMD, Ceramic, 1uF, 16V±5%, 0805, X7R           | 0805     | 30  | KEMET                  | C0805C105J4RAC7210       |
| 2     | C102, C103, C104, C105, C202, C203, C204, C205, C302, C303, C304, C305, C402, C403, C404, C405, C502, C503, C504, C505, C602, C603, C604, C605                                     | 0.1uF      | Capacitor, SMD, Ceramic, 0.1uF, 16V, 5%, 0805, U2J        | 0805     | 24  | KEMET                  | C0805C104J4JACAUTO       |
| 3     | C106, C206, C306, C406, C506, C606                                                                                                                                                 | 820pF      | Capacitor, SMD, Ceramic, 820pF, 50V, 5%, 0805, C0G        | 0805     | 6   | KEMET                  | C0805C821J5GACAUTO       |
| 4     | C107, C207, C307, C407, C507, C607                                                                                                                                                 | 1nF        | Capacitor, SMD, Ceramic, 1nF, 16V, 0805, X8R              | 0805     | 6   | KEMET                  | C0805C102G4HACAUTO       |
| 5     | C108, C208, C308, C408, C508, C608                                                                                                                                                 | 10pF       | Capacitor, SMD, Ceramic, 10pF, 16V, 10%, 0805, X8R        | 0805     | 6   | KEMET                  | C0805C100K4HACAUTO       |
| 6     | C109, C110, C111, C209, C210, C211, C309, C310, C311, C409, C410, C411, C509, C510, C511, C609, C610, C611                                                                         | 100nF      | Capacitor, SMD, Ceramic, 100nF, 16V±5%, 0805, X7R         | 0805     | 18  | KEMET                  | C0805C104J4RACTU         |
| 7     | C117, C217, C317, C417, C517, C617                                                                                                                                                 | 10uF       | Capacitor, SMD, Ceramic, 10uF, 16V, 10%, 0805, X5R        | 0805     | 6   | Murata Electronics     | GRT21BR61C106KE01L       |
| 8     | FB100, FB101, FB200, FB201, FB300, FB301, FB400, FB401, FB500, FB501, FB600, FB601                                                                                                 | 0R         | Resistor, SMD, 0R, 1%, 1206                               | 1206     | 6   | ROHM                   | PMR18EZPJ000             |
| 9     | J100, J200, J300, J400, J500, J600                                                                                                                                                 | 1511193112 | Connector, TH, 12 positions, 1511193112, 125 VAC          |          | 6   | Molex                  | 1511193112               |
| 10    | R100, R101, R109, R200, R201, R209, R300, R301, R309, R400, R401, R409, R500, R501, R509, R600, R601, R609                                                                         | 0R         | Resistor, SMD, 0R, 0603                                   | 0603     | 18  | ROHM                   | SFR03EZPJ000             |
| 11    | R102, R108, R202, R208, R302, R308, R402, R408, R502, R508, R602, R608                                                                                                             | 39K        | Resistor, SMD, 39K, ±5%, 0805, 0.4W, 2/5W                 | 0805     | 12  | ROHM                   | ESR10EZPJ393             |
| 12    | R103, R107, R203, R207, R303, R307, R403, R407, R503, R507, R603, R607                                                                                                             | 180R       | Resistor, SMD, 180R, 5%, 0805, 500mW                      | 0805     | 3   | ROHM                   | ESR10EZPJ181             |
| 13    | R104, R204, R304, R404, R504, R604                                                                                                                                                 | 1K         | Resistor, SMD, 1K, ±1%, 0805, 0.4W, 2/5W                  | 0805     | 6   | ROHM                   | ESR10EZPF1001            |
| 14    | R105, R106, R205, R206, R305, R306, R405, R406, R505, R506, R605, R606                                                                                                             | 18K        | Resistor, SMD, 18K, 1%, 0805, 0.5W                        | 0805     | 12  | ROHM                   | ESR10EZPJ183             |
| 15    | R110, R210, R310, R410, R510, R610                                                                                                                                                 | 1.6K       | Resistor, SMD, 1.6K, ±5%, 0805, 0.4W, 2/5W                | 0805     | 6   | ROHM                   | ESR10EZPJ162             |
| 16    | R111, R211, R311, R411, R511, R611                                                                                                                                                 | 36K        | Resistor, SMD, 36K, 5%, 0805, 0.5W                        | 0805     | 6   | ROHM                   | ESR10EZPJ363             |
| 17    | R112, R212, R312, R412, R512, R612                                                                                                                                                 | 3.3K       | Resistor, SMD, 3.3K, ±5%, 0805, 0.4W, 2/5W                | 0805     | 6   | ROHM                   | ESR10EZPF3301            |
| 18    | R115, R215, R315, R415, R515, R615                                                                                                                                                 | 10K        | Resistor, SMD, 10K, ±5%, 0805, 0.4W, 2/5W                 | 0805     | 6   | ROHM                   | ESR10EZPF1002            |
| 19    | U100, U200, U300, U400, U500, U600                                                                                                                                                 |            | Optically Isolated Amplifiers COUPLER ISOLATION           | 11-6B1A  | 6   | Toshiba                | TLP7820                  |
| 20    | U101, U201, U301, U401, U501, U601                                                                                                                                                 |            | Operational Amplifiers - Op Amps 5uV Offset Voltage SSOP5 | SSOP5    | 6   | ROHM                   | LMR1802G-LBTR            |
| 21    | U102, U202, U302, U402, U502, U602                                                                                                                                                 |            | Isolated DC/DC Converters - SMD DC/DC SM 1W 12V-5V Single | (SOP-8)  | 6   | Murata Power Solutions | NXJ1S1205MC-R13          |
| 22    | U104, U204, U304, U404, U504, U604                                                                                                                                                 |            | PRECISION SHUNT REGULATOR, SMD                            | SOT-23-3 | 6   | Texas Instruments      | TLV431BQDBZRQ1           |

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## [AUX Board]

| SI no | Designator       | Value   | Description                                              | Package  | Qty | Manufacturer         | Manufacturer Part Number |
|-------|------------------|---------|----------------------------------------------------------|----------|-----|----------------------|--------------------------|
| 1     | C100             | 680pF   | CAP NP, SMD, Ceramic, 680pF, 630V, 1%, 1206, COG         | 1206     | 1   | MURATA               | GRM31B5C2J681FW01L       |
| 2     | C101, C102, C107 | 470uF   | CAP POL, TH, Electrolytic, 470uF, 35V, 20%, 105°C        | TH       | 3   | UNITED CHEMI-CON     | EKZE350ELL471MJ20S       |
| 3     | C104             | 220uF   | CAP POL, TH, Electrolytic, 220uF, 35V, 20%, 105°C        | TH       | 1   | NICHICON             | UHD1V221MPD              |
| 4     | C105, C111       | 10uF    | CAP NP, SMD, Ceramic, 10uF, 50V, 10%, 1206, X7T          | 1206     | 2   | MURATA               | GRM31CD71H106KE11        |
| 5     | C108             | 680uF   | CAP POL, TH, Electrolytic, 680uF, 35V, 20%, 105°C        | TH       | 1   | UNITED CHEMI-CON     | EKZE350ELL681MK20S       |
| 6     | C109             | 22uF    | CAP POL, TH, Electrolytic, 22uF, 50V, 20%, -40°C ~ 105°C | TH       | 1   | NICHICON             | UHD1H220MDD              |
| 7     | C110             | 33nF    | CAP NP, TH, BOX, 33nF, 1600V, 5%                         | TH       | 1   | TDK                  | B32672L1333J             |
| 8     | C113             | 100nF   | CAP NP, SMD, Ceramic, 100nF, 100V, 10%, 0603, X7R        | 0603     | 1   | MURATA               | GRM188R72A104KA35D       |
| 9     | C114, C117       | 1000pF  | CAP NP, SMD, Ceramic, 1000pF, 100V, 10%, 0603, X7R       | 0603     | 2   | TAIYO YUDEN          | HMK107B7102KA-T          |
| 10    | C115             | 0.1uF   | CAP NP, SMD, Ceramic, 0.1uF, 100V, 20%, 0603, X7R        | 0603     | 1   | TAIYO YUDEN          | HMK107B7104MA-T          |
| 11    | C116             | 47pF    | CAP NP, SMD, Ceramic, 47pF, 250V, 5%, 0603, COG          | 0603     | 1   | MURATA               | GRM1885C2E470JW07        |
| 12    | D100             |         | Diode, SMD, Schottky, 150V, 350V, 5A-150                 |          | 1   | ROHM                 | RFN5BM3SFH               |
| 13    | D101             | Diode_S | Diode, SMD, SIGNAL, Diode_S, 1200V, 1A                   | 1A       | 1   | SHINDENGEN           | D1FK120                  |
| 14    | D102, D103       |         | USB TVS Diode, TH, TVS, 1500W, -55°C ~ +175°C            | TH       | 2   | LITTLEFUSE           | 1.5KE200A                |
| 15    | D104, D106       | UF4007  | Diode, TH, SIGNAL, 1000V, DO-41, 1A-150°C                | DO-41    | 2   | ON SEMI              | UF4007                   |
| 16    | D105             |         | Diode, SMD, Schottky, 150V, 150V, 6A-150                 | 150V     | 1   | ROHM                 | RB098BGE150              |
| 17    | D108             | US1M    | Diode, SMD, US1M, 1000V, SMA, 1A--50°C ~ 150°C           | DO-214AC | 1   | Diotec Semiconductor | US1M                     |
| 18    | ISO100           |         | Optoisolator, SMD, IC, 4-DIP                             | 4-DIP    | 1   | SHARP                | PC817X2NIP1B             |
| 19    | J100, J101, J102 |         | Connector, TH, 10 Positions, CON_HDR_2x5_Z               |          | 3   | SAMTEC               | TSW-105-08-G-D-RA        |
| 20    | L100             | 2.2uH   | Inductor, TH, 2.2uH, 20%, 6.3A                           | TH       | 1   | Wurth                | 7447462022               |
| 21    | L101             | 3.3uH   | Inductor, TH, 3.3uH, 20%, 6.3A-125                       | TH       | 1   | Wurth                | 7447462033               |
| 22    | R100, R105, R109 | 10R     | Resistor, SMD, 10R, 5%, 1206, 0.25W                      | 1206     | 3   | ROHM                 | KTR18EZPJ100             |

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|-------|------------------|--------|--------------------------------------------------|------------|-----|--------------|--------------------------|
| 23    | R101, R104, R106 | 390K   | Resistor, SMD, 390K, 5%, 1206, 0.25W             | 1206       | 3   | ROHM         | KTR18EZPJ394             |
| 24    | R102             | 62k    | Resistor, TH, 62k, 5%, TH, 2W                    | TH         | 1   | VISHAY       | PR03000206202JAC00       |
| 25    | R103, R108       | 2.2M   | Resistor, SMD, 2.2M, 5%, 1206, 0.25W             | 1206       | 2   | ROHM         | KTR18EZPJ225             |
| 26    | R107             | 300K   | Resistor, SMD, 470k, 5%, 1206, 0.25W             | 1206       | 2   | ROHM         | KTR18EZPJ304             |
| 27    | R110, R113       | 47k    | Resistor, SMD, 47k, 1%, 0603, 0.1W               | 0603       | 2   | ROHM         | SFR03EZPF4702            |
| 28    | R111             | 1.5k   | Resistor, SMD, 2k, 1%, 0603, 0.1W                | 0603       | 1   | ROHM         | SFR03EZPF1501            |
| 29    | R112             | 100k   | ResistorSMD100k350V1%06030.1W                    | 0603       | 1   | ROHM         | KTR03EZFX1003            |
| 30    | R114             | 1k     | Resistor, SMD, 1k, 1%, 0603, 0.1W                | 0603       | 1   | ROHM         | SFR03EZPF1001            |
| 31    | R115             | 30k    | Resistor, SMD, 30k, 5%, 0603, 0.1W               | 0603       | 1   | ROHM         | SFR03EZPJ303             |
| 32    | R116             | 10k    | Resistor, SMD, 10k, 1%, 0603, 0.1W               | 0603       | 1   | ROHM         | SFR03EZPF1002            |
| 33    | R117             | 12k    | Resistor, SMD, 12k, 1%, 0603, 0.1W               | 0603       | 1   | ROHM         | SFR03EZPF1202            |
| 34    | R118             | 24.9k  | Resistor, SMD, 24.9k, 1%, 0603, 0.1W             | 0603       | 1   | ROHM         | SFR03EZPF2492            |
| 35    | R119             | 510m   | High Power Thick Film Chip (AEC-Q200), 1%        | 2512       | 1   | ROHM         | MCR100LJQPFL             |
| 36    | R120, R121       | 24.9k  | Resistor, SMD, 24.9k, 1%, 0603, 0.1W             | 603        | 1   | ROHM         | SFR03EZPF2492            |
| 37    | TR100            | PQ3220 | Transformer, TH, PQ3220, PQ3220, 12 Pin VERTICAL | 12 Pin     | 1   | Custom       | Custom                   |
| 38    | U100             |        | DC/DC IC, SMD, -40°C ~ 105°C                     | (TO263-7L) | 1   | ROHM         | BM2SC123FP2              |
| 39    | U101             |        | Shunt Regulator, TH, AS431                       | SOT-23     | 1   | Diodes Inc   | AS431BNTR-G1             |

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