

Hot-Swap, POLs & UCD90240

| Designator | Quantity | Value | Description | PackageReference | PartNumber | Manufacturer |
|---|----------|--------|---|------------------|-------------------------|--------------|
| !PCB | 1 | | Printed Circuit Board | | PMP10896 | Any |
| C1, C2, C9, C10, C13, C14, C18, C21, C22, C23, C33, C34, C55, C74, C90, C104, C199, C200, C201 | 19 | 1uF | CAP, CERM, 1 μ F, 50 V, +/- 10%, X5R, 0603 | 0603 | GRM188R61H105KAAL D | MuRata |
| C3, C4, C12, C15, C27, C28, C31 | 7 | 0.01uF | CAP, CERM, 0.01 μ F, 25 V, +/- 10%, X7R, 0402 | 0402 | C1005X7R1E103K | TDK |
| C5, C6, C7, C8, C11, C16, C19, C20, C35, C39, C45, C53, C63, C69, C72, C81, C87, C95, C101, C124, C151, C160, C162, C169, C173, C181, C187, C191, C195, C197, C198 | 31 | 0.1uF | CAP, CERM, 0.1 μ F, 50 V, +/- 10%, X7R, 0402 | 0402 | C1005X7R1H104K050B B | TDK |
| C17, C41, C42, C43, C44, C59, C60, C61, C62, C77, C78, C79, C80, C91, C92, C93, C94, C109, C110, C111, C112, C136, C137, C138, C139, C166, C167, C168, C184, C185, C186 | 31 | 22uF | CAP, CERM, 22 μ F, 25 V, +/- 20%, X5R, 0805 | 0805 | GRM21BR61E226ME44 | MuRata |
| C24, C25, C26 | 3 | 330uF | CAP, Aluminum Polymer, 330 μ F, 16 V, +/- 20%, 0.016 ohm, 10x10.3 SMD | 10x10.3 | 16SVP330M | Panasonic |
| C29 | 1 | 0.1uF | CAP, CERM, 0.1 μ F, 25 V, +/- 10%, X7R, 0603 | 0603 | C1608X7R1E104K | TDK |

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|--|----------|---------|---|------------------|----------------------|--------------|
| C30, C32, C36, C37, C52, C54, C57, C71, C73, C76, C88, C102, C105, C115, C131, C132, C142, C158, C159, C170, C171, C188, C189, C196, C202 | 25 | 1000pF | CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0402 | 0402 | C1005X7R1H102K | TDK |
| C38 | 1 | 0.056uF | CAP, CERM, 0.056 µF, 50 V, +/- 10%, X7R, 0603 | 0603 | GRM188R71H563KA93D | MuRata |
| C40, C58 | 2 | DNP | CAP, CERM, 22 µF, 25 V, +/- 20%, X5R, 0805 | 0805 | GRM21BR61E226ME44 | MuRata |
| C46, C47, C48, C49, C64, C65, C66, C67, C83, C84, C85, C97, C98, C99, C116, C117, C118, C119, C120, C121, C143, C144, C145, C146, C147, C148 | 26 | 100uF | CAP, CERM, 100 µF, 6.3 V, +/- 20%, X5R, 1206 | 1206 | GRM31CR60J107ME39L | MuRata |
| C50, C68, C86, C100 | 4 | DNP | CAP, CERM, 100 µF, 6.3 V, +/- 20%, X5R, 1206 | 1206 | GRM31CR60J107ME39L | MuRata |
| C51 | 1 | DNP | CAP, CERM, 1000 pF, 50 V, +/- 20%, X7R, 0402 | 0402 | C1005X7R1H102M | TDK |
| C56, C75, C89, C103, C127, C154, C172, C190 | 8 | 4.7uF | CAP, CERM, 4.7uF, 16V, +/-10%, X5R, 0603 | 0603 | GRM188R61C475KAAJ | MuRata |
| C70 | 1 | 820pF | CAP, CERM, 820 pF, 50 V, +/- 10%, X7R, 0402 | 0402 | GRM155R71H821KA01D | MuRata |
| C82, C96 | 2 | 470pF | CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, 0402 | 0402 | C1005X7R1H471K | TDK |
| C106, C133 | 2 | 330pF | CAP, CERM, 330 pF, 50 V, +/- 10%, X7R, 0402 | 0402 | GRM155R71H331KA01D | MuRata |
| C107, C108, C134, C135 | 4 | 330uF | CAP, TA, 330 µF, 6.3 V, +/- 20%, 0.025 ohm, SMD | 7.3x2.8x4.3mm | 6TPE330ML | Sanyo |
| C113, C114, C140, C141 | 4 | 6800pF | CAP, CERM, 6800 pF, 50 V, +/- 10%, X7R, 0402 | 0402 | GRM155R71H682KA88D | MuRata |
| C122, C123, C149, C150, C175, C176, C193, C194, C203 | 9 | 22uF | CAP, CERM, 22uF, 16V, +/-20%, X5R, 0805 | 0805 | GRM21BR61C226ME44 | MuRata |
| C125, C126, C152, C153 | 4 | 2.2uF | CAP, CERM, 2.2 µF, 16 V, +/- 10%, X5R, 0402 | 0402 | C1005X5R1C225K050B C | TDK |
| C128, C129, C155, C156 | 4 | 1200pF | CAP, CERM, 1200 pF, 50 V, +/- 10%, X7R, 0402 | 0402 | GRM155R71H122KA01D | MuRata |
| C130 | 1 | 330pF | CAP, CERM, 330 pF, 50 V, +/- 1%, C0G/NP0, 0402 | 0402 | GRM1555C1H331FA01J | MuRata |
| C157 | 1 | 33pF | CAP, CERM, 33 pF, 50 V, +/- 5%, C0G/NP0, 0402 | 0402 | GRM1555C1H330JA01D | MuRata |
| C161 | 1 | 10uF | CAP, CERM, 10 µF, 25 V, +/- 20%, X5R, 0603 | 0603 | GRM188R61E106MA73 | MuRata |

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|---|----------|--------|---|--|-------------------------|-----------------------------|
| C163 | 1 | 22uF | CAP, CERM, 22 µF, 6.3 V, +/- 20%, X5R, 0603 | 0603 | C1608X5R0J226M080A C | TDK |
| C164, C165, C182, C183 | 4 | 470uF | CAP, TA, 470uF, 4V, +/-20%, 0.005 ohm, SMD | 7.3x2.8x4.3mm | 4TPF470M5EL | Sanyo |
| C174, C192 | 2 | DNP | CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0402 | 0402 | C1005X7R1H102K | TDK |
| C177 | 1 | 3300pF | CAP, CERM, 3300 pF, 50 V, +/- 10%, X7R, 0402 | 0402 | GRM155R71H332KA01 D | MuRata |
| C178 | 1 | DNP | CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, 0402 | 0402 | C1005X7R1H471K | TDK |
| C179 | 1 | 22pF | CAP, CERM, 22pF, 50V, +/-5%, COG/NP0, 0402 | 0402 | GRM1555C1H220JA01 D | MuRata |
| C180 | 1 | 4700pF | CAP, CERM, 4700pF, 50V, +/-10%, X7R, 0402 | 0402 | C1005X7R1H472K | TDK |
| D1, D2, D3, D4 | 4 | Orange | LED, Orange, SMD | LED_0805 | LTST-C170KFKT | Lite-On |
| D5, D6, D7, D8, D9, D10, D11, D12 | 8 | Blue | LED, Blue, SMD | LED_0805 | LTST-C170TBKT | Lite-On |
| D13 | 1 | 40V | Diode, Schottky, 40 V, 5 A, SMC | SMC | MBRS540T3G | ON Semiconductor |
| D14 | 1 | 15V | Diode, TVS, Uni, 15 V, 5000 W, SMC | SMC | 5.0SMDJ15A | Littelfuse |
| D15 | 1 | 100V | Diode, Ultrafast, 100 V, 0.15 A, SOD-123 | SOD-123 | 1N4148W-7-F | Diodes Inc. |
| D16, D17, D18, D19, D20, D21, D22, D23, D24 | 9 | Green | LED, Green, SMD | LED_0805 | LTST-C170KGKT | Lite-On |
| D25, D26 | 2 | Yellow | LED, Yellow, SMD | LED_0805 | LTST-C170KSKT | Lite-On |
| FID1, FID2, FID3, FID4, FID5, FID6 | 6 | | Fiducial mark. There is nothing to buy or mount. | Fiducial | N/A | N/A |
| H1, H2, H3, H4 | 4 | | Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead | Screw | NY PMS 440 0025 PH | B&F Fastener Supply |
| H5, H6, H7, H8 | 4 | | Standoff, Hex, 0.5"L #4-40 Nylon | Standoff | 1902C | Keystone |
| J1 | 1 | | Header, 100mil, 7x2, Tin, TH | Header, 7x2, 100mil, Tin | PEC07DAAN | Sullins Connector Solutions |
| J2 | 1 | | Header (shrouded), 100mil, 5x2, Gold, TH | 5x2 Shrouded header | 5103308-1 | TE Connectivity |
| J3, J5, J6, J9, J11, J12, J13, J16, J17, J18 | 10 | 1x3 | Header, 100mil, 3x1, Gold, TH | PBC03SAAN | PBC03SAAN | Sullins Connector Solutions |
| J4, J7, J8, J10 | 4 | | Terminal Block, 2x1, 5.08mm, TH | 2x1 Terminal Block | OSTTA024163 | On-Shore Technology |
| J14, J15 | 2 | | Header, 100mil, 2x1, Gold, TH | Sullins 100mil, 1x2, 230 mil above insulator | PBC02SAAN | Sullins Connector Solutions |
| L1, L4 | 2 | 1uH | Inductor, Shielded, Powdered Iron, 1 µH, 18 A, 0.003 ohm, SMD | 2-Pin SMD, Body 10.85 x 10 mm, Height 4 mm | PIMB104T-1R0MS | Cyntec |
| L2 | 1 | 2.2uH | Inductor, Shielded, Powdered Iron, 2.2 µH, 12 A, 0.006 ohm, SMD | 2-Pin SMD, Body 10.85 x 10 mm, Height 4 mm | PIMB104T-2R2MS | Cyntec |
| L3 | 1 | 680nH | Inductor, Shielded, Ferrite, 680 nH, 24 A, 0.0039 ohm, SMD | 10.4x5.2x11 mm | SPM10040T-R68M-B | TDK |
| L5 | 1 | 330nH | Inductor, Ferrite, 330 nH, 32.8 A, 0.00033 ohm, SMD | SMD, 2-Leads, Body 10.2x10mm | VLB10090HT-R33K-B2 | TDK |
| L6 | 1 | 470nH | Inductor, Shielded Drum Core, Ferrite, 470nH, 35A, 0.00032 ohm, SMD | 11.3x8.9x11mm | 744301047 | Würth Elektronik eiSos |
| L7 | 1 | 2.2uH | Inductor, Shielded, 2.2 µH, 2.6 A, 0.07 ohm, SMD | 1008 | DFE252012P-2R2M | Toko |
| L8, L9 | 2 | 220nH | Inductor, Shielded, Composite, 220 nH, 55.5 A, 0.00033 ohm, SMD | Inductor, 11.3x10x10mm | XAL1010-221MEB | Coilcraft |
| Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q16, Q17, Q18, Q19, Q20, Q22, Q24, Q25, Q26, Q27, Q28 | 23 | 60V | MOSFET, N-CH, 60 V, 0.17 A, SOT-23 | SOT-23 | 2N7002-7-F | Diodes Inc. |
| Q13 | 1 | 30V | MOSFET, N-CH, 30 V, 51 A, SON 5x6mm | SON 5x6mm | CSD17570Q5B | Texas Instruments |
| Q14 | 1 | 40 V | Transistor, NPN, 40 V, 0.2 A, SOT-523 | SOT-523 | MMBT3904T-7-F | Diodes Inc. |
| Q15 | 1 | 40 V | Transistor, PNP, 40 V, 0.2 A, SOT-23 | SOT-23 | MMBT3906 | Fairchild Semiconductor |
| Q21, Q23 | 2 | 0.2V | Transistor, NPN, 40V, 0.2A, SOT-23 | SOT-23 | MMBT3904 | Fairchild Semiconductor |
| R1 | 1 | 1.0 | RES, 1.0 ohm, 5%, 0.1W, 0603 | 0603 | CRCW06031R00JNEA | Vishay-Dale |
| R2 | 1 | 0.1 | RES, 0.1 ohm, 1%, 0.1W, 0603 | 0603 | ERJ-3RSFR10V | Panasonic |
| R3, R4 | 2 | 11.0k | RES, 11.0 k, 1%, 0.063 W, 0402 | 0402 | CRCW040211K0FKED | Vishay-Dale |
| R5, R6, R27 | 3 | 20k | RES, 20 k, 5%, 0.063 W, 0402 | 0402 | CRCW040220K0JNED | Vishay-Dale |

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|---|----------|-------|--------------------------------|------------------|------------------|--------------|
| R7, R8, R10, R12, R15, R17, R20, R22, R25, R256, R257 | 11 | 200 | RES, 200, 1%, 0.063 W, 0402 | 0402 | CRCW0402200RFKED | Vishay-Dale |
| R9, R11, R13, R16, R18, R21, R23, R26, R31, R32, R71, R77, R88, R102, R120, R121, R143, R144, R158, R159, R180, R181, R203, R204, R239, R245 | 26 | 0 | RES, 0, 5%, 0.063 W, 0402 | 0402 | CRCW04020000Z0ED | Vishay-Dale |
| R14, R19 | 2 | 2.00k | RES, 2.00 k, 1%, 0.063 W, 0402 | 0402 | CRCW04022K00FKED | Vishay-Dale |
| R24, R161, R234 | 3 | 15.0k | RES, 15.0 k, 1%, 0.063 W, 0402 | 0402 | CRCW040215K0FKED | Vishay-Dale |
| R28, R29, R30, R80, R81, R83, R97, R100, R108, R127, R151, R166, R194, R217, R248 | 15 | 1.00k | RES, 1.00 k, 1%, 0.063 W, 0402 | 0402 | CRCW04021K00FKED | Vishay-Dale |
| R33, R34, R35 | 3 | DNP | RES, 1.00 k, 1%, 0.063 W, 0402 | 0402 | CRCW04021K00FKED | Vishay-Dale |
| R36, R42, R43 | 3 | 4.7k | RES, 4.7 k, 5%, 0.1 W, 0603 | 0603 | CRCW06034K70JNEA | Vishay-Dale |
| R37 | 1 | 0 | RES, 0 ohm, 5%, 0.1W, 0603 | 0603 | ERJ-3GEY0R00V | Panasonic |
| R38 | 1 | DNP | RES, 100 k, 1%, 0.063 W, 0402 | 0402 | CRCW0402100KFKED | Vishay-Dale |
| R39, R40, R41 | 3 | 4.75k | RES, 4.75 k, 1%, 0.063 W, 0402 | 0402 | CRCW04024K75FKED | Vishay-Dale |
| R44, R79, R89, R90, R91, R93, R94, R95, R98, R99, R106, R113, R115, R123, R131, R133, R148, R154, R163, R169, R187, R192, R210, R215, R226, R236 | 26 | DNP | RES, 187 k, 1%, 0.063 W, 0402 | 0402 | CRCW0402187KFKED | Vishay-Dale |
| R45, R46, R47, R48, R96, R134, R135, R172, R173, R185, R195, R208, R218, R242, R243, R258, R259 | 17 | 300 | RES, 300, 5%, 0.063 W, 0402 | 0402 | CRCW0402300RJNED | Vishay-Dale |

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|--|----------|-------|--------------------------------|------------------|------------------|--------------|
| R49, R50, R51, R52, R61, R62, R63, R64, R65, R66, R67, R68, R140, R141, R176, R177, R200, R223, R250, R251, R260, R261 | 22 | 30.1k | RES, 30.1 k, 1%, 0.063 W, 0402 | 0402 | CRCW040230K1FKED | Vishay-Dale |
| R53, R54, R55, R56, R57, R58, R59, R60 | 8 | 84.5 | RES, 84.5, 1%, 0.063 W, 0402 | 0402 | CRCW040284R5FKED | Vishay-Dale |
| R69, R70 | 2 | 0.004 | RES, 0.004, 1%, 1 W, 2512 | 2512 | ERJ-M1WSF4M0U | Panasonic |
| R72, R244 | 2 | 2.00 | RES, 2.00, 1%, 0.063 W, 0402 | 0402 | CRCW04022R00FKED | Vishay-Dale |
| R73, R75, R105, R122, R142, R157, R183, R206, R230 | 9 | 10.0 | RES, 10.0, 1%, 0.063 W, 0402 | 0402 | CRCW040210R0FKED | Vishay-Dale |
| R74 | 1 | 100 | RES, 100, 1%, 0.1 W, 0603 | 0603 | CRCW0603100RFKEA | Vishay-Dale |
| R76 | 1 | 22.6k | RES, 22.6 k, 1%, 0.063 W, 0402 | 0402 | CRCW040222K6FKED | Vishay-Dale |
| R78, R84 | 2 | 44.2k | RES, 44.2 k, 1%, 0.063 W, 0402 | 0402 | CRCW040244K2FKED | Vishay-Dale |
| R82, R129, R136, R138, R139, R146, R149, R164, R174, R175, R184, R186, R193, R207, R209, R216, R231, R240, R241, R262 | 20 | 10.0k | RES, 10.0 k, 1%, 0.063 W, 0402 | 0402 | CRCW040210K0FKED | Vishay-Dale |
| R85 | 1 | 7.32k | RES, 7.32 k, 1%, 0.063 W, 0402 | 0402 | CRCW04027K32FKED | Vishay-Dale |
| R86 | 1 | 3.83k | RES, 3.83 k, 1%, 0.063 W, 0402 | 0402 | CRCW04023K83FKED | Vishay-Dale |
| R87 | 1 | 6.98k | RES, 6.98 k, 1%, 0.063 W, 0402 | 0402 | CRCW04026K98FKED | Vishay-Dale |
| R92 | 1 | 2.74k | RES, 2.74 k, 1%, 0.063 W, 0402 | 0402 | CRCW04022K74FKED | Vishay-Dale |
| R101, R103, R117, R119 | 4 | 4.99k | RES, 4.99 k, 1%, 0.063 W, 0402 | 0402 | CRCW04024K99FKED | Vishay-Dale |
| R104 | 1 | 3.01 | RES, 3.01, 1%, 0.063 W, 0402 | 0402 | CRCW04023R01FKED | Vishay-Dale |
| R107 | 1 | DNP | RES, 1.00, 1%, 0.125 W, 0805 | 0805 | CRCW08051R00FKEA | Vishay-Dale |
| R109 | 1 | 49.9k | RES, 49.9 k, 1%, 0.063 W, 0402 | 0402 | CRCW040249K9FKED | Vishay-Dale |
| R110, R128, R152, R167, R196, R219, R249 | 7 | 200k | RES, 200 k, 1%, 0.063 W, 0402 | 0402 | CRCW0402200KFKED | Vishay-Dale |
| R111, R118, R126, R137 | 4 | 100k | RES, 100 k, 1%, 0.063 W, 0402 | 0402 | CRCW0402100KFKED | Vishay-Dale |
| R112, R130, R188, R211, R235 | 5 | 40.2k | RES, 40.2 k, 1%, 0.063 W, 0402 | 0402 | CRCW040240K2FKED | Vishay-Dale |
| R114 | 1 | 169k | RES, 169 k, 1%, 0.063 W, 0402 | 0402 | CRCW0402169KFKED | Vishay-Dale |
| R116 | 1 | 11.5k | RES, 11.5 k, 1%, 0.063 W, 0402 | 0402 | CRCW040211K5FKED | Vishay-Dale |
| R124, R182, R205 | 3 | 1.00 | RES, 1.00, 1%, 0.125 W, 0805 | 0805 | CRCW08051R00FKEA | Vishay-Dale |
| R125 | 1 | 73.2k | RES, 73.2 k, 1%, 0.063 W, 0402 | 0402 | CRCW040273K2FKED | Vishay-Dale |
| R132 | 1 | 64.9k | RES, 64.9 k, 1%, 0.063 W, 0402 | 0402 | CRCW040264K9FKED | Vishay-Dale |
| R145, R160 | 2 | 3.01 | RES, 3.01, 1%, 0.125 W, 0805 | 0805 | CRCW08053R01FKEA | Vishay-Dale |
| R147, R162, R232 | 3 | 20.0k | RES, 20.0 k, 1%, 0.063 W, 0402 | 0402 | CRCW040220K0FKED | Vishay-Dale |
| R150, R165 | 2 | 240k | RES, 240 k, 1%, 0.063 W, 0402 | 0402 | CRCW0402240KFKED | Vishay-Dale |
| R153, R168 | 2 | 32.4k | RES, 32.4 k, 1%, 0.063 W, 0402 | 0402 | CRCW040232K4FKED | Vishay-Dale |
| R155 | 1 | 57.6k | RES, 57.6 k, 1%, 0.063 W, 0402 | 0402 | CRCW040257K6FKED | Vishay-Dale |
| R156, R171 | 2 | 71.5k | RES, 71.5 k, 1%, 0.063 W, 0402 | 0402 | CRCW040271K5FKED | Vishay-Dale |

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|---|----------|-------|---|---------------------------|------------------|-------------------|
| R170 | 1 | 48.7k | RES, 48.7 k, 1%, 0.063 W, 0402 | 0402 | CRCW040248K7FKED | Vishay-Dale |
| R178, R179, R201, R202, R224, R228 | 6 | 49.9 | RES, 49.9, 1%, 0.063 W, 0402 | 0402 | CRCW040249R9FKED | Vishay-Dale |
| R189, R212 | 2 | DNP | RES, 10.0 k, 1%, 0.063 W, 0402 | 0402 | CRCW040210K0FKED | Vishay-Dale |
| R190, R213 | 2 | 10.5k | RES, 10.5 k, 1%, 0.063 W, 0402 | 0402 | CRCW040210K5FKED | Vishay-Dale |
| R191 | 1 | 51.1k | RES, 51.1 k, 1%, 0.063 W, 0402 | 0402 | CRCW040251K1FKED | Vishay-Dale |
| R197 | 1 | 23.7k | RES, 23.7 k, 1%, 0.063 W, 0402 | 0402 | CRCW040223K7FKED | Vishay-Dale |
| R198 | 1 | 8.66k | RES, 8.66 k, 1%, 0.063 W, 0402 | 0402 | CRCW04028K66FKED | Vishay-Dale |
| R199, R222, R252 | 3 | 76.8k | RES, 76.8 k, 1%, 0.063 W, 0402 | 0402 | CRCW040276K8FKED | Vishay-Dale |
| R214, R221 | 2 | 15.4k | RES, 15.4 k, 1%, 0.063 W, 0402 | 0402 | CRCW040215K4FKED | Vishay-Dale |
| R220 | 1 | 121k | RES, 121 k, 1%, 0.063 W, 0402 | 0402 | CRCW0402121KFKED | Vishay-Dale |
| R225, R233 | 2 | 2.2 | RES, 2.2, 5%, 0.063 W, 0402 | 0402 | CRCW04022R20JNED | Vishay-Dale |
| R227, R237 | 2 | DNP | RES, 1.0, 5%, 0.25 W, 1206 | 1206 | CRCW12061R00JNEA | Vishay-Dale |
| R229 | 1 | DNP | RES, 4.99k ohm, 1%, 0.063W, 0402 | 0402 | CRCW04024K99FKED | Vishay-Dale |
| R238, R255 | 2 | DNP | RES, 8.06k ohm, 1%, 0.063W, 0402 | 0402 | CRCW04028K06FKED | Vishay-Dale |
| R246, R247 | 2 | 100 | RES, 100, 1%, 0.063 W, 0402 | 0402 | CRCW0402100RFKED | Vishay-Dale |
| R253, R254 | 2 | 37.4k | RES, 37.4 k, 1%, 0.063 W, 0402 | 0402 | CRCW040237K4FKED | Vishay-Dale |
| T1, T2, T3, T4, T5, T6, T7, T8 | 8 | 50A | Terminal 50A Lug | CB35-36-CY | CB35-36-CY | Panduit |
| TP1, TP2, TP5, TP8, TP9, TP10, TP15, TP16, TP17, TP24, TP25, TP26, TP31, TP32, TP33, TP40, TP44, TP45, TP46, TP52, TP56, TP57, TP58, TP64, TP65, TP67, TP68, TP75, TP76 | 29 | Red | Test Point, Miniature, Red, TH | Red Miniature Testpoint | 5000 | Keystone |
| TP3, TP4, TP6, TP11, TP12, TP13, TP14, TP18, TP19, TP20, TP21, TP28, TP29, TP30, TP35, TP36, TP37, TP42, TP47, TP48, TP49, TP54, TP59, TP60, TP61, TP69, TP70, TP71, TP72, TP73 | 30 | Black | Test Point, Miniature, Black, TH | Black Miniature Testpoint | 5001 | Keystone |
| TP41, TP43, TP53, TP55, TP66, TP74 | 6 | White | Test Point, Miniature, White, TH | White Miniature Testpoint | 5002 | Keystone |
| U1 | 1 | | HIGH INPUT VOLTAGE, MICROPPOWER SON PACKAGED, 80mA, LDO LINEAR REGULATORS, DRB0008A | DRB0008A | TPS715A33DRB | Texas Instruments |

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|------------|----------|-------|--|------------------|-------------------|-------------------|
| U2 | 1 | | Low-Noise, Very Low Drift, Precision VOLTAGE REFERENCE, DGK0008A | DGK0008A | REF5030IDGK | Texas Instruments |
| U3 | 1 | | 24-Rail PMBus Power Sequencer and Power Manager, ZRB0157A | ZRB0157A | UCD90240ZRBR | Texas Instruments |
| U4 | 1 | | System Power Management and Protection IC With PMBus, NHZ0024B | NHZ0024B | LM25066APSQE/NOPB | Texas Instruments |
| U5 | 1 | | High-Efficiency 14-A Synchronous Buck Converter with Eco-mode, DQP0022A | DQP0022A | TPS53319DQP | Texas Instruments |
| U6 | 1 | | High-Efficiency 30 A Synchronous Buck Converter with Eco-mode, DQP0022A | DQP0022A | TPS53355DQPR | Texas Instruments |
| U7 | 1 | | High Performance, 12-A Single Synchronous Step-Down Converter, RVE0028A | RVE0028A | TPS53515RVE | Texas Instruments |
| U8 | 1 | | High Performance, 8-A Single Synchronous Step-Down Converter, RVE0028A | RVE0028A | TPS53513RVE | Texas Instruments |
| U9, U10 | 2 | | 18V, 30A PMBUS SYNCHRONOUS BUCK CONVERTERS, RVF0040A | RVF0040A | TPS544C25RVF | Texas Instruments |
| U11, U13 | 2 | | Synchronous Buck NexFET Power Stage, DQP0012A | DQP0012A | CSD95378BQ5M | Texas Instruments |
| U12 | 1 | | 3V to 17-V 1A Step-Down Converter with DCS-ControlTM, RGT0016C | RGT0016C | TPS62153AQRGTRQ1 | Texas Instruments |
| U14 | 1 | | Dual output, 2 phase, stackable PMBUS synchronous buck driverless controller, RHA0040B | RHA0040B | TPS40428RHA | Texas Instruments |

Notes:

Unless otherwise noted in the Alternate PartNumber and/or Alternate Manufacturer columns, all parts may be substituted with equivalents.

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