

Change in menu Project

| Designator | Quantity | Value | Description | PackageReference | PartNumber | Manufacturer | Alternate PartNumber | Alternate Manufacturer |
|----------------------|----------|---------|--|------------------------------|--------------------|-----------------------------|----------------------|------------------------|
| IPCB | 1 | | Printed Circuit Board | | XX### | Any | - | - |
| C1, C2, C3 | 3 | 120uF | CAP, AL, 120uF, 20V, +/-20%, 0.025 ohm, SMD | F61 | 20SVPF120M | Sanyo | - | - |
| C4, C5 | 2 | 1uF | CAP, CERM, 1uF, 100V, +/-20%, C Series, 1206 | 1206 | C3216X7R2A105M | TDK | - | - |
| C6 | 1 | 330uF | 16VDC 330UF 16MOHM 10X12.7MM | SMD | 16SVP330M | Panasonic Electronic Compon | - | - |
| C7, Cx1 | 2 | 22uF | CAP, CERM, 22uF, 16V, +/-10%, X5R, 1206 | 1206 | GRM31CR61C226KE15L | MuRata | - | - |
| C8, C11 | 2 | 100pF | CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603 | 0603 | GRM1885C1H101JA01D | MuRata | - | - |
| C12 | 1 | 0.047uF | CAP, CERM, 0.047uF, 25V, +/-10%, X7R, 0603 | 0603 | GRM188R71E473KA01D | MuRata | - | - |
| C13 | 1 | 0.47uF | CAP, CERM, 0.47uF, 25V, +/-10%, X5R, 0603 | 0603 | GRM188R61E474KA12D | MuRata | - | - |
| C14, C15 | 2 | 15pF | CAP, CERM, 15pF, 50V, +/-5%, C0G/NP0, 0603 | 0603 | GRM1885C1H150JA01D | MuRata | - | - |
| Cc | 1 | 0.047uF | CAP, CERM, 0.047uF, 50V, +/-10%, X7R, 0603 | 0603 | GRM188R71H473KA61D | MuRata | - | - |
| Chf | 1 | 330pF | CAP, CERM, 330pF, 50V, +/-5%, C0G/NP0, 0603 | 0603 | C1608C0G1H331J | TDK | - | - |
| COMP, EN, SS | 3 | White | Test Point, TH, Miniature, White | Keystone5002 | 5002 | Keystone | - | - |
| Csb | 1 | 820pF | CAP, CERM, 820pF, 50V, +/-5%, C0G/NP0, 0603 | 0603 | GRM1885C1H821JA01D | MuRata | - | - |
| Css | 1 | 0.1uF | CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0603 | 0603 | GRM188R71E104KA01D | MuRata | - | - |
| Cvcc | 1 | 4.7uF | CAP CER 4.7UF 10V 10% X6S 0603 | 0603 (1608 Metric) | C1608X6S1A475K | TDK Corporation | - | - |
| FID1, FID2, FID3 | 3 | | 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 | - | - |
| HG, LG, PRI, SEC | 4 | White | Test Point, Miniature, White, TH | Keystone5002 | 5002 | Keystone | - | - |
| J2, J4, VIN, VOUT | 4 | | Standard Banana Jack, Uninsulated, 5.5mm | Keystone_575-4 | 575-4 | Keystone | - | - |
| LBL1 | 1 | | Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll | PCB Label 0.650"H x 0.200"W | THT-14-423-10 | Brady | - | - |
| PGND, PGND1, V-, VO- | 4 | Black | Test Point, TH, Multipurpose, Black | Keystone5011 | 5011 | Keystone | - | - |
| Q1, Q2 | 2 | 80V | MOSFET, N-CH, 80V, 55A, PG-TDSON-8 | PG-TDSON-8 | BSC123N08NS3 G | Infineon Technologies | - | - |
| R2, R3 | 2 | 182 | RES, 182 ohm, 1%, 0.1W, 0603 | 0603 | CRCW0603182RFKEA | Vishay-Dale | - | - |
| R5, R6, R7, R8, R11 | 5 | 0 | RES, 0 ohm, 5%, 0.1W, 0603 | 0603 | ERJ-3GEY0R00V | Panasonic | - | - |
| R9 | 1 | 49.9k | RES, 49.9k ohm, 1%, 0.1W, 0603 | 0603 | CRCW060349K9FKEA | Vishay-Dale | - | - |
| R10 | 1 | 3.3 | RES, 3.3 ohm, 5%, 0.1W, 0603 | 0603 | CRCW06033R30JNEA | Vishay-Dale | - | - |
| R12 | 1 | 8.66k | RES, 8.66k ohm, 1%, 0.1W, 0603 | 0603 | CRCW06038K66FKEA | Vishay-Dale | - | - |
| R13 | 1 | 100k | RES, 100k ohm, 1%, 0.1W, 0603 | 0603 | CRCW0603100KFKEA | Vishay-Dale | - | - |
| R19 | 1 | 348 | RES, 348 ohm, 1%, 0.1W, 0603 | 0603 | CRCW0603348RFKEA | Vishay-Dale | - | - |
| RB | 1 | 9.53k | RES, 9.53k ohm, 1%, 0.1W, 0603 | 0603 | CRCW06039K53FKEA | Vishay-Dale | - | - |
| Rc | 1 | 49.9k | RES, 59.0k ohm, 1%, 0.1W, 0603 | 0603 | CRCW060359K0FKEA | Vishay-Dale | - | - |
| RS+, V+, VO+ | 3 | Red | Test Point, Miniature, Red, TH | Keystone5000 | 5000 | Keystone | - | - |
| RS- | 1 | Black | Test Point, Miniature, Black, TH | Keystone5001 | 5001 | Keystone | - | - |
| Rs1 | 1 | 0.010 | RES 0.01 OHM 1W 1% 2512 SMD | 2512 | | | - | - |
| Rs2 | 1 | 0.010 | RES, 0.010 ohm, 1%, 1W, 2512 | 2512 | | | - | - |
| Rsb1, Rsb2 | 2 | 34.0 | RES 34 OHM 1/2W 1% 1210 SMD | 1210 | ERJ-14NF34R0U | Panasonic Electronic Compon | - | - |
| Rsyn | 1 | 40.2k | RES, 40.2k ohm, 1%, 0.1W, 0603 | 0603 | CRCW060340K2FKEA | Vishay-Dale | - | - |
| Rt | 1 | 84.5k | RES, 84.5k ohm, 1%, 0.1W, 0603 | 0603 | CRCW060384K5FKEA | Vishay-Dale | - | - |
| SGND | 1 | Black | Test Point, TH, Miniature, Black | Keystone5001 | 5001 | Keystone | - | - |
| U1 | 1 | | | eg: 0603, used in PnP report | LM5122MH | TI | - | - |
| X1 | 1 | | | eg: 0603, used in PnP report | HPH6-0158L | Coilcraft Inc | - | - |
| C10 | 0 | 100pF | CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603 | 0603 | GRM1885C1H101JA01D | MuRata | - | - |
| D1 | 0 | 0.77V | Diode, Schottky, 100V, 1A, PowerDI123 | PowerDI123 | DFLS1100-7 | Diodes Inc. | - | - |
| R4 | 0 | DNP | RES, 158k ohm, 1%, 0.1W, 0603 | 0603 | CRCW0603158KFKEA | Vishay-Dale | - | - |
| R14 | 0 | DNP | RES, 0 ohm, 5%, 0.1W, 0603 | 0603 | ERJ-3GEY0R00V | Panasonic | - | - |

Notes:

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

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