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## Assembly Bill of Materials PMP9080

| Designator | Quantity | Value | Description | PackageReference | PartNumber | Manufacturer |
|---|---|---|---|---|---|---|
| !PCB | 1 | | Printed Circuit Board | | XX#### | Any |
| C1, C2, C5, C7, C13, C14 | 6 | 0.1uF | CAP, CERM, 0.1uF, 50V, +/-10%, C0G/NP0, 0402 | 0402 | C1005X7R1H104K | TDK |
| C3 | 1 | 1000uF | CAP, AL, 1000uF, 35V, +/-20%, 0.054 ohm, SMD | LH0 | EMVY350GTR102MLH0S | Nippon Chemi-Con |
| C4, C8 | 2 | 2.2uF | CAP, CERM, 2.2uF, 25V, +/-10%, X7R, 1206 | 1206 | GRM31MR71E225KA93L | MuRata |
| C6 | 1 | 47uF | CAP, CERM, 47uF, 6.3V, +/-20%, X5R, 1210 | 1210 | C3225X5R0J476M | TDK |
| C9, C11 | 2 | 4.7uF | CAP, CERM, 4.7uF, 50V, +/-10%, X5R, 1206 | 1206 | GRM319R61H475KA12 | MuRata |
| C10 | 1 | 100uF | CAP, TA, 100uF, 10V, +/-20%, 0.1 ohm, SMD | 7343-31 | TPSD107M010R0100 | AVX |
| C12 | 1 | 12pF | CAP, CERM, 12pF, 25V, +/-5%, C0G/NP0, 0402 | 0402 | GRM1555C1E120JA01D | MuRata |
| C15 | 1 | 0.033uF | CAP, CERM, 0.033uF, 10V, +/-10%, X5R, 0402 | 0402 | GRM155R61A333KA01D | MuRata |
| D2 | 1 | 24V | Diode, Zener, 24V, 225mW, SOT-23 | SOT-23 | BZX84C24LT1G | ON Semiconductor |
| J1 | 1 | B3P-VH | Connector, Top 3-pin, 156 mil spacing, | 0.465 X 0.335 inch | B3P-VH | JST |
| J2 | 1 | | Connector, Receptacle, USB TYPE A, 4POS SMD | USB TYPE A CONNECTOR RECEPTACLE 4POS SMD | 896-43-004-00-000000 | Mill-Max |
| J3, J4 | 2 | | Header, 100mil, 2x1, Tin plated, TH | Header, 2 PIN, 100mil, Tin | PEC02SAAN | Sullins Connector Solutions |
| L1 | 1 | 6.5uH | Inductor, Shielded Drum Core, Superflux, 6.5uH, 6A, 0.0225 ohm, SMD | WE-HC3 | 744314650 | Wurth Elektronik eiSos |
| L2 | 1 | {Value} | Inductor, Coulpled | 0.050 x 0.080 inch | 0805USB-xxxMB | Coilcraft |
| R1 | 1 | 16.9k | RES, 16.9k ohm, 1%, 0.063W, 0402 | 0402 | CRCW040216K9FKED | Vishay-Dale |
| R2 | 1 | 80.6k | RES, 80.6k ohm, 1%, 0.063W, 0402 | 0402 | CRCW040280K6FKED | Vishay-Dale |
| R3 | 1 | 0.05 | RES, 0.05 ohm, 1%, 0.5W, 1206 | 1206 | CRM1206-FZ-R050ELF | Bourns |
| R4, R5, R11, R12 | 4 | 1.00Meg | RES, 1.00Meg ohm, 1%, 0.063W, 0402 | 0402 | CRCW04021M00FKED | Vishay-Dale |
| R6 | 1 | 49.9 | RES, 49.9 ohm, 1%, 0.063W, 0402 | 0402 | CRCW040249R9FKED | Vishay-Dale |
| R7 | 1 | 499k | RES, 499k ohm, 1%, 0.063W, 0402 | 0402 | CRCW0402499KFKED | Vishay-Dale |
| R8, R9 | 2 | 100k | RES, 100k ohm, 5%, 0.063W, 0402 | 0402 | CRCW0402100KJNED | Vishay-Dale |
| R10 | 1 | 1.00k | RES, 1.00k ohm, 1%, 0.25W, 1206 | 1206 | CRCW12061K00FKEA | Vishay-Dale |
| R13, R100 | 2 | 1.00k | RES, 1.00k ohm, 1%, 0.063W, 0402 | 0402 | CRCW04021K00FKED | Vishay-Dale |
| R14 | 1 | 3.01k | RES, 3.01k ohm, 1%, 0.063W, 0402 | 0402 | CRCW04023K01FKED | Vishay-Dale |
| R101, R102 | 2 | 1.50k | RES, 1.50k ohm, 1%, 0.063W, 0402 | 0402 | CRCW04021K50FKED | Vishay-Dale |

| Designator | Quantity | Value | Description | PackageReference | PartNumber | Manufacturer |
|---|---|---|---|---|---|---|
| TP1, TP2, TP3, TP4, TP5, TP7, TP9, TP10 | 8 | Red | Test Point, Multipurpose, Red, TH | Red Multipurpose Testpoint | 5010 | Keystone |
| TP6, TP8 | 2 | Black | Test Point, Multipurpose, Black, TH | Black Multipurpose Testpoint | 5011 | Keystone |
| U1 | 1 | | 3.5 - 36V 3A Step-Down Converters with Low Quiescent Current, PWP0016F | PWP0016F | LM43603PWP | Texas Instruments |
| U2 | 1 | TPS254xRTE | IC, USB Charging Port Power Switch & Controller with Load Detect Feature. | QFN-16 | TPS254xRTE | TI |
| U3 | 1 | TPD2E001DZDR | IC, Low-Capacitacnce 2-Chan ±15-kV ESD-Protection Array | SOP | TPD2E001DZDR | TI |
| U4 | 1 | LM2904M | Low Power Dual Op Amp | M08A_L | LM2904M | National Semiconductor |

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