

PMP40154 REV A Bill of Materials

| Designator | Quantity | Value | PartNumber | Manufacturer | Description | PackageReference |
|---|----------|--------|---------------------|------------------|--|-----------------------------|
| C1, C2, C3, C4, C7, C8, C9, C10, C66, C78, C92, C93 | 12 | 0.1uF | GRM155R61E104KA87D | MuRata | CAP, CERM, 0.1 µF, 25 V, +/- 10%, X5R, 0402 | 0402 |
| C6 | 1 | 1uF | C1005X5R1A105K050BB | TDK | CAP, CERM, 1 µF, 10 V, +/- 10%, X5R, 0402 | 0402 |
| C11, C12, C45, C49, C52, C82, C85, C87, C89, C91 | 10 | 0.1uF | GRM155R60J104KA01D | MuRata | CAP, CERM, 0.1 µF, 6.3 V, +/- 10%, X5R, 0402 | 0402 |
| C13, C16, C77 | 3 | 10uF | GRM219R61E106KA12 | MuRata | CAP, CERM, 10 µF, 25 V, +/- 10%, X5R, 0805 | 0805 |
| C14 | 1 | 10uF | GRM188R60J106ME47D | MuRata | CAP, CERM, 10 µF, 6.3 V, +/- 20%, X5R, 0603 | 0603 |
| C15 | 1 | 0.1uF | C1005X5R0J104K050BA | TDK | CAP, CERM, 0.1 µF, 6.3 V, +/- 10%, X5R, 0402 | 0402 |
| C17 | 1 | 0.1uF | 06033C104JAT2A | AVX | CAP, CERM, 0.1 µF, 25 V, +/- 5%, X7R, 0603 | 0603 |
| C18, C19 | 2 | 220pF | GRM155R71H221KA01D | MuRata | CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0402 | 0402 |
| C20, C21 | 2 | 22uF | GRM188R60J226MEA0D | MuRata | CAP, CERM, 22 µF, 6.3 V, +/- 20%, X5R, 0603 | 0603 |
| C22, C56 | 2 | 1uF | C1005X5R0J105M050BB | TDK | CAP, CERM, 1 µF, 6.3 V, +/- 20%, X5R, 0402 | 0402 |
| C23 | 1 | 0.01uF | GRM155R71E103KA01D | MuRata | CAP, CERM, 0.01 µF, 25 V, +/- 10%, X7R, 0402 | 0402 |
| C24 | 1 | 2.2uF | C1005X5R1A225K050BC | TDK | CAP, CERM, 2.2 µF, 10 V, +/- 10%, X5R, 0402 | 0402 |
| C25, C28 | 2 | 10uF | GRM188R60J106ME84 | MuRata | CAP, CERM, 10 µF, 6.3 V, +/- 20%, X5R, 0603 | 0603 |
| C26 | 1 | 0.22uF | C1005X5R1A224K050BC | TDK | CAP, CERM, 0.22 µF, 10 V, +/- 10%, X5R, 0402 | 0402 |
| C27 | 1 | 2.2uF | JMK107BJ225KAHT | Taiyo Yuden | CAP, CERM, 2.2 µF, 6.3 V, +/- 10%, X5R, 0603 | 0603 |
| C29 | 1 | 0.1uF | GRM155R61H104ME14D | MuRata | CAP, CERM, 0.1 µF, 50 V, +/- 20%, X5R, 0402 | 0402 |
| C44, C48 | 2 | 10uF | GRM155R60J106ME15D | MuRata | CAP, CERM, 10 µF, 6.3 V, +/- 20%, X5R, 0402 | 0402 |
| C46, C50, C83, C86, C88, C90, C94 | 7 | 0.01uF | GRM155R60J103KA01D | MuRata | CAP, CERM, 0.01 µF, 6.3 V, +/- 10%, X5R, 0402 | 0402 |
| C47, C51 | 2 | 10pF | GRM1555C1H100JA01D | MuRata | CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0402 | 0402 |
| C55, C57 | 2 | 0.1uF | GRM155R71E104KE14D | MuRata | CAP, CERM, 0.1 µF, 25 V, +/- 10%, X7R, 0402 | 0402 |
| C61, C64, C65, C75 | 4 | 47uF | JMK212BJ476MG-T | Taiyo Yuden | CAP, CERM, 47 µF, 6.3 V, +/- 20%, X5R, 0805 | 0805 |
| C62, C63, C76 | 3 | 10uF | C0603C106M9PACTU | Kemet | CAP, CERM, 10 µF, 6.3 V, +/- 20%, X5R, 0603 | 0603 |
| C67 | 1 | 10uF | C2012X5R1E106K125AB | TDK | CAP, CERM, 10 µF, 25 V, +/- 10%, X5R, 0805 | 0805 |
| C68, C69, C70, C84 | 4 | 22uF | GRM188R60J226MEA0J | MuRata | CAP, CERM, 22 µF, 6.3 V, +/- 20%, X5R, 0603 | 0603 |
| C71 | 1 | 8200pF | GRM155R71E822KA01D | MuRata | CAP, CERM, 8200 pF, 25 V, +/- 10%, X7R, 0402 | 0402 |
| C72 | 1 | 15pF | GRM1555C1H150JA01D | MuRata | CAP, CERM, 15 pF, 50 V, +/- 5%, C0G/NP0, 0402 | 0402 |
| C73 | 1 | 820pF | GRM1555C1E821JA01D | MuRata | CAP, CERM, 820 pF, 25 V, +/- 5%, C0G/NP0, 0402 | 0402 |
| D1 | 1 | 30V | NSR20F30NXT5G | ON Semiconductor | Diode, Schottky, 30 V, 2 A, 2-XFDFN | 2-XFDFN |
| D2 | 1 | 30V | B330A-13-F | Diodes Inc. | Diode, Schottky, 30 V, 3 A, SMA | SMA |
| FB13 | 1 | | | Taiyo Yuden | Ferrite Bead | |
| J3 | 1 | | 691216510002 | Würth Elektronik | Receptacle, 5.08mm, 2x1, Brass, TH | Receptacle, 5.08mm, 2x1, TH |

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|------------------------------|----------|--------------|------------------------|---------------------|---|---|
| J5 | 1 | | HDA-M-CN01 | Bosconn | HDMI Type A Plug, 1 mm, Black, TH | SMD, 19-Pins, Body 14x12.65mm, Pitch 1mm |
| J8 | 1 | | UT12113-11602-7H | Foxconn | Connector, Receptacle, USB TYPE C, R/A, SMT | Connector, Receptacle, USB TYPE C, R/A, SMT |
| L1 | 1 | 3.3uH | XAL4030-332MEB | Coilcraft | Inductor, Shielded, Composite, 3.3 uH, 5.5 A, 0.026 ohm, SMD | 4.0x3.1x4.0mm |
| L2, L3 | 2 | 1uH | 74438335010 | Würth Elektronik | Inductor, Shielded, 1 uH, 2.7 A, 0.039 ohm, SMD | 3x3mm |
| R1, R2 | 2 | 2.00Meg | CRCW04022M00FKED | Vishay-Dale | RES, 2.00 M, 1%, 0.063 W, 0402 | 0402 |
| R3, R116, R117 | 3 | 100k | CRCW0402100KJNED | Vishay-Dale | RES, 100 k, 5%, 0.063 W, 0402 | 0402 |
| R4, R8, R46 | 3 | 0 | RC0402JR-070RL | Yageo America | RES, 0, 5%, 0.063 W, 0402 | 0402 |
| R6 | 1 | 100k | CRCW0402100KFKED | Vishay-Dale | RES, 100 k, 1%, 0.063 W, 0402 | 0402 |
| R7 | 1 | 15.0k | CRCW040215K0FKED | Vishay-Dale | RES, 15.0 k, 1%, 0.063 W, 0402 | 0402 |
| R10, R45, R71, R74, R75, R88 | 6 | 10.0k | CRCW040210K0FKED | Vishay-Dale | RES, 10.0 k, 1%, 0.063 W, 0402 | 0402 |
| R17, R20, R21, R22 | 4 | 3.30k | ERJ-2RKF3301X | Panasonic | RES, 3.30 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402 | 0402 |
| R57, R58 | 2 | 240k | CRCW0402240KFKED | Vishay-Dale | RES, 240 k, 1%, 0.063 W, 0402 | 0402 |
| R63, R89 | 2 | 2.00k | CRCW04022K00FKED | Vishay-Dale | RES, 2.00 k, 1%, 0.063 W, 0402 | 0402 |
| R64, R67, R69, R70 | 4 | 4.70k | ERJ-2RKF4701X | Panasonic | RES, 4.70 k, 1%, 0.1 W, 0402 | 0402 |
| R68 | 1 | 4.99k | RC0402FR-074K99L | Yageo America | RES, 4.99 k, 1%, 0.063 W, 0402 | 0402 |
| R90, R110 | 2 | 1.00Meg | CRCW04021M00FKED | Vishay-Dale | RES, 1.00 M, 1%, 0.063 W, 0402 | 0402 |
| R129 | 1 | 10.2k | CRCW040210K2FKED | Vishay-Dale | RES, 10.2 k, 1%, 0.063 W, 0402 | 0402 |
| R130 | 1 | 43k | CRCW040243K0JNED | Vishay-Dale | RES, 43 k, 5%, 0.063 W, 0402 | 0402 |
| R131 | 1 | 3.24k | CRCW04023K24FKED | Vishay-Dale | RES, 3.24 k, 1%, 0.063 W, 0402 | 0402 |
| TP3 | 1 | | 5010 | Keystone | Test Point, Multipurpose, Red, TH | Red Multipurpose Testpoint |
| TP4 | 1 | | 5011 | Keystone | Test Point, Multipurpose, Black, TH | Black Multipurpose Testpoint |
| U1 | 1 | | HD3SS460RHRR | Texas Instruments | 4 x 6 Channels USB Type-C™ Alternate Mode MUX, RHR0028A | RHR0028A |
| U2 | 1 | | TPS65986ABZQZR | Texas Instruments | USB Type-C and USB PD Controller and Power Switch, ZQZ0096A | ZQZ0096A |
| U3 | 1 | W25X20CL SNI | W25X20CLSNI | Texas Instruments | IC FLASH SPI 16MBIT 8SOIC | SOIC-8_208mil |
| U5, U8, U11, U22 | 4 | | TPD4E02B04DQAR | Texas Instruments | 1, 4, 6 CHANNEL PROTECTION SOLUTION FOR SUPER-SPEED (UP TO 6 GBPS) INTERFACE, DQA0010A | DQA0010A |
| U6 | 1 | | TPD8S300RUK | Texas Instruments | USB Type C Interface Protector: Short-to-VBUS Over Voltage and IEC 61000-4-2 ESD Protection, RUK0020B | RUK0020B |
| U14 | 1 | | PS171HDMQFN56GTR2-XX | Parade | HDMI 1.4b Compatible with 300MHz TMDS Clock Support, QFN56 | QFN-56 |
| U17 | 1 | | TPS2514ADBV | Texas Instruments | USB Dedicated Charging Port Controller, DBV0006A | DBV0006A |
| U18 | 1 | | TPS54332DDAR | Texas Instruments | 3.5-A, 28-V, 1-MHz, Step-Down DC-DC Converter With Eco-Mode, DDA0008H | DDA0008H |
| U19 | 1 | | TLV62565DBVR | Texas Instruments | 1.5-A High Efficiency Step-Down Converter in SOT23-5 Package, DBV005A | DBV005A |
| U23 | 1 | | TPD4E05U06DQAR | Texas Instruments | 1, 4, 6 CHANNEL PROTECTION SOLUTION FOR SUPER-SPEED (UP TO 6 GBPS) INTERFACE, DQA0010A | DQA0010A |
| U24 | 1 | | TPS61235PRWLR | Texas Instruments | 7-A Synchronous Boost Converter with Programmable Output Current Limit, RWL0009A | RWL0009A |
| U1007 | 1 | | W25Q80DVSNI | WINBOND ELECTRONICS | IC FLASH 8MBIT 104MHZ 8SOIC | |
| Y2 | 1 | | ABM10-27.000MHZ-D30-T3 | Abracon Corporation | Crystal, 27.000MHz, 10pF, SMD | 2.5x0.5x2.0mm |

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|-----------------------|----------|-------|--------------------|--------------|--|------------------|
| C74 | 0 | 22uF | GRM188R60J226MEA0J | MuRata | CAP, CERM, 22 μ F, 6.3 V, +/- 20%, X5R, 0603 | 0603 |
| R13, R16, R31, R32 | 0 | 100k | CRCW0402100KJNED | Vishay-Dale | RES, 100 k, 5%, 0.063 W, 0402 | 0402 |

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