

TDADP-TPH-ON-240W-RD Bill of Materials (BOM)

| Designator | Designator | Manufacturer | Part Number |
|--|--|---------------------|--------------------------|
| CAP ALUM 180UF 20% 400V RADIAL | C1 | Rubycon | 400LXW180MEFR18X35 |
| CAP CER 0.1UF 450V X7T 1206 | C2, C3 | TDK | CGA5L4X7T2W104K160 AE |
| CAP CER 10000PF 630V X7R 1206 | C4, C28 | Samsung | CL31B103KHFNNNE |
| | C5 | | |
| CAP FILM 0.22UF X2 310Vac | C6, C7 | JURCC | X2-224K |
| CAP CER 0603 10NF 25VDC | C8, C29, C49, C60, C61 | KEMET | C0603C103K3TACAUTO |
| CAP CER 10UF 35V X7R 1206 | C9, C20, C21, C22, C63 | Taiyo Yuden | GMK316AB7106KL-TR |
| CAP ALUM POLY 330UF 20% 35V T/H | C10, C11 | KEMET | A750KW337M1VAAE02 0 |
| CAP CER 1UF 10V X7R 0603 | C12 | KEMET | C0603C105K8RAC7867 |
| | C14, C17, C25, C39, C40, C43, C45, C57 | KEMET | C0603X104K5RACAUTO |
| CAP CER 0.1UF 50V X7R 0603 | | TDK | C1608C0G1H222J080AA |
| CAP CER 2200PF 50V C0G 0603 | C13 | Samsung | CL21B225KAFNFNE |
| CAP CER 2.2UF 25V X7R 0805 | C15 | Murata | GRM21BR71C475KE51K |
| CAP CER 4.7UF 16V X7R 0805 | C16 | KEMET | C0603X102K5RAC3316 |
| CAP CER 0603 1NF 50V X7R 10% | C18 | TDK | B32671P4104K000 |
| CAP FILM 0.1UF 10% 450VDC RADIAL | C19 | Würth | 885012006042 |
| CAP CER 470PF 25V C0G/NP0 0603 | C23 | Panasonic | EEE-FT1V561AV |
| CAP ALUM 560UF 20% 35V SMD | C24, C31 | KEMET | C1210C103KDGAC7800 |
| CAP CER 10000PF 1KV C0G/NP0 1210 | C26, C27, C38 | Samsung | CL31B106KLHNFNE |
| CAP CER 10UF 35V X7R 1206 | C32, C37 | Rubycon | 25YXG220MEFC6.3X11 |
| CAP ALUM 220UF 20% 25V RADIAL | C33 | KEMET | C1210C332JDGACAUTO |
| CAP CER 3300PF 1KV C0G/NP0 1210 | C36 | Taiyo Yuden | GMK107AB7105KAHT |
| CAP CER 1UF 35V X7R 0603 | C41, C42 | Würth | 860010572005 |
| CAP ALUM 47UF 20% 35V RADIAL | C44 | Samsung | CL31C101JIFNFNE |
| CAP CER 100PF 1KV C0G/NP0 1206 | C47 | | |
| | C48 | | |
| CAP CER 680PF 25V C0G/NP0 0603 | C51 | Yageo | CC0603JRNPO8BN681 |
| CAP CER 68PF 25V C0G/NP0 0603 | C52 | KEMET | C0603C680J3GACAUTO |
| CAP CER 4700PF 50V X7R 0603 | C59 | KEMET | C0603C472J5RAC7867 |
| CAP CER 470PF 100V C0G/NP0 0805 | C66, C67 | KEMET | C0805C471J1GAC7800 |
| 3.5A Common Mode Choke | CMC1 | MPS Industries | P5334 |
| | CMC2 | | |
| CAP FILM 0.47UF 10% 630VDC RAD X2 | CX1 | TDK | B32922C3474K000 |
| CAP CER 6800PF 300VAC Y5V RADIAL X1 Y2 | CY1, CY2 | Vishay | VY2682M47Y5VS63V7 |
| CAP CER 1000PF 300V NONSTND SMD X1 Y1 | CY3 | Murata | DK1E3EA102M86RBH01 |
| DIODE GEN PURP 600V 3A SMC | D1 | SMC Diode Solutions | S3J |
| DIODE SCHOTTKY 600V 3A TO220-2 SiC | D2 | Wolfspeed | C3D03060A |

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| BRIDGE RECT 1PHASE 800V 15A GBU | D3 | Micro Commercial | GBU15K-BP |
| DIODE SCHOTTKY 60V 1A POWERDI323 | D4, D5, D6, D11, D12 | Diodes Inc | PD3S160-7 |
| DIODE GEN PURP 1KV 1A MINISMA | D8, D9 | Comchip Technology | CGRM4007-G |
| DIODE GEN PURP 600V 1A SOD123FL | D10 | Taiwan Semi | ES1JLW |
| FUSE BOARD MOUNT 6.3A 250VAC RAD | F1 | Littelfuse | 39216300000 |
| FERRITE BEAD 120 OHM 0603 @100MHz | FB1 | Murata | BLM18AG121SH1D |
| FERRITE BEAD 60 OHM 0805 1LN @100MHz | FB2 | TDK | MMZ2012Y600BT000 |
| FERRITE BEAD 220 OHM 0603 1LN @100MHz | FB3, FB4 | Murata | BLM18EG221TN1D |
| | J1 | | |
| | J2 | | |
| Power Inductor PQ32/20 core 415uH 0.2OHM DCR | L1 | MPS Industries | P19118 |
| Differential Mode Chock 176uH 0.115 OHM DCR | L2 | MPS Industries | P11062 |
| Inductor RM4 16uH @100kHz 50mOHM DCR | L3 | | |
| VARISTOR 470V 2.5KA DISC 10MM | MOV1 | Bourns | MOV-10D471K |
| GaN FET 650V 150mΩ in TO-220 | Q1, Q2, Q3 | Transphorm | TP65H150G4PS |
| MOSFET N-CH 80V 100A TDSO | Q4, Q5 | Infineon | BSC037N08NS5ATMA1 |
| MOSFET N-CHANNEL 600V 21MA SOT23 | Q6 | Rectron | BSS127 |
| TRANS NPN 100V 2A SOT23-3 | Q7 | ON Semi | NSS1C201LT1G |
| RES 4.7 OHM 1% 1/4W 0805 | R2, R54, R57, R58, R59 | Stackpole | RNCP0805FTD4R70 |
| RES 3.3M OHM 1% 1/10W 0603 | R3, R21, R47, R48 | Stackpole | RMCF0603FT3M30 |
| RES 0.039 OHM 2.0 W 1% 2010 SMD | R4 | Vishay | WFMB2010R0390FEA |
| RES 2K OHM 1% 1/10W 0603 | R5 | Yageo | RC0603FR-072KL |
| RES 47 OHM 1% 1/10W 0603 | R6, R7, R23, R27, R45, R52 | Stackpole | RMCF0603FT47R0 |
| RES 47K OHM 1% 1/10W 0603 | R8, R46, R53 | TE Connectivity | CRGCQ0603F47K |
| | R9, R50, RT2 | | |
| RES 27K OHM 1% 1/10W 0603 | R10, R19, R28 | Stackpole | RMCF0603FT27K0 |
| RES 100 OHM 1% 1/10W 0603 | R11 | Stackpole | RMCF0603FT100R |
| RES SMD 2.2 OHM 5% 1/4W 0603 | R12 | Rohm | ESR03EZPJ2R2 |
| RES 75K OHM 1% 1/10W 0603 | R13 | Stackpole | RMCF0603FT75K0 |
| RES 11K OHM 1% 1/8W 0603 | R14 | Stackpole | RNCP0603FTD11K0 |
| RES 8.2K OHM 1% 1/10W 0603 | R15 | Stackpole | RMCF0603FT8K20 |
| RES 931K OHM 1% 1/10W 0603 | R16 | Yageo | RC0603FR-07931KL |
| RES 13K OHM 1% 1/10W 0603 | R17, R33 | Stackpole | RMCF0603FT13K0 |
| RES 1K OHM 1% 1/10W 0603 | R18 | Stackpole | RMCF0603FT1K00 |
| RES 110K OHM 1% 1/10W 0603 | R20 | Stackpole | RMCF0603FT110K |
| RES 5.6K OHM 1% 1/10W 0603 | R22, R29 | Stackpole | RMCF0603FT5K60 |
| RES SMD 1.5 OHM 1% 1/10W 0603 | R24, R26 | Rohm | KTR03EZPF1R50 |

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| RES 20K OHM 1% 1/10W 0603 | R25, R55 | Stackpole | RMCF0603FT20K0 |
| RES SMD 2.7K OHM 5% 0.4W 0805 | R30, R31 | Rohm | ESR10EZPJ272 |
| RES 0 OHM JUMPER 1/10W 0603 | R32, R34, R40, R43 | Yageo | RC0603FR-070RL |
| RES SMD 3.3 OHM 5% 1/4W 0603 | R35 | Rohm | ESR03EZPJ3R3 |
| RES 1.8K OHM 1% 1/10W 0603 | R36 | Stackpole | RMCF0603FT1K80 |
| RES 150K OHM 1% 1/10W 0603 | R37 | Stackpole | RMCF0603FT150K |
| RES 1.2K OHM 1% 1/10W 0603 | R38 | Stackpole | RMCF0603FT1K20 |
| RES 470 OHM 1% 1/10W 0603 | R39 | Stackpole | RMCF0603FT470R |
| RES 10K OHM 1% 1/10W 0603 | R41 | Stackpole | RMCF0603FT10K0 |
| RES 15K OHM 1% 1/10W 0603 | R44 | Stackpole | RMCF0603FG15K0 |
| RES SMD 909K OHM 1% 1/10W 0603 | R49 | Rohm | MCR03ERTF9093 |
| RES 22K OHM 1% 1/10W 0603 | R51 | Stackpole | RMCF0603FT22K0 |
| | R56, R60 | | |
| | RT1 | | |
| PFC IC CCM 133kHz 8-SOIC | U1 | ON Semi | NCP1654BD133R2G |
| SECONDARY SIDE SYNCHRONOUS SOIC8 | U2, U6 | ON Semi | NCP4306AAAZZADR2G |
| LLC IC OFFLINE SW HALF-BRDG 16SOIC | U3 | ON Semi | NCP1399AADR2G |
| OPTOISO 5KV TRANSISTOR SO6L | U4 | Toshiba | TLP383(GR-TPL,E |
| IC VREF SHUNT ADJ 2.21% SOT23-3 | U5 | STMicroelectronics | TL431CL3T |
| | U7 | | |
| XF PQ2620 300uH 34:3:4:4 | XF1 | MPS Industries | P6548 |
| | Z1 | | |
| | Z2 | | |
| DIODE ZENER 13V 300MW SOD323 | Z3 | ON Semi | MM3Z13VT1G |