

# Bill of Materials

TI DESIGNS  
**TIDM-SOLAR-DCDC**  
 Rev 3

| MODULE                       | DESCRIPTION  | MANEX PART#           | MFGR               | MFGR PART #              | Vendor | Vendor Part# | VENDOR | VENDOR PART#   | LOCATION        | QTY /BOARD |
|------------------------------|--|-----------------------|--------------------|--------------------------|--------|--------------|--------|----------------|-----------------|------------|
| Solar HV Prim Main Board[R4] | 100 pin DIMM socket - Molex 0876301001   | 160-0000913           | Molex              | 87630-1001               |        |              |        | 538-87630-1001 | H1              | 1          |
| Solar HV Prim Main Board[R4] | AuxSupply-400Vin-to-12V  | PR798                 |                    |                          |        |              |        | Custom Made    | M2              | 1          |
| Solar HV Prim Main Board[R4] | Ceramic, 1000pF, 0805  | 121-0002344           | Panasonic-ECG      | ECJ-2VB1H102K -Obsoleted |        |              |        | PCC102BNTR-ND  | C2, C3          | 2          |
| Solar HV Prim Main Board[R4] | Banana Connector and Screws  | 260-0005067           | Pomona Electronics | 3267                     |        |              |        | 501-1115-ND    | BS1~ BS8        | 8          |
| Solar HV Prim Main Board[R4] | Standard 0.1" SIL headers, cut to fit, total needed 2x5, <b>Right Angle</b>                                  |                       |                    |                          |        |              | DIGI   | A34346-40-ND   | H2              | 1          |
| Solar HV Prim Main Board[R4] | <b>Standard 0.1" SIL headers, cut to fit, total needed 2x5, <u>DELETE, Changed to Right Angle header</u></b> | 260-0009772           |                    |                          |        |              |        |                | H2              | 0          |
| Solar HV Prim Main Board[R4] | Standard 0.1" SIL headers, cut to fit, total needed 1x4  | 260-0008027           |                    |                          |        |              |        |                | H3              | 1          |
| Solar HV Prim Main Board[R4] | Standard 0.1" SIL headers, cut to fit, total needed 1x3  | 260-0008027           |                    |                          |        |              |        |                | J2, J7          | 2          |
| Solar HV Prim Main Board[R4] | Standard 0.1" SIL headers, cut to fit, total needed 1x2  | 260-0008027           |                    |                          |        |              |        |                | J1, J3,J4,J5,J6 | 5          |
| Solar HV Prim Main Board[R4] | CAP CERM 4700PF 3000V X7R 20% RA   |                       |                    |                          |        |              | DIGI   | 478-4042-ND    | C1              | 0          |
| Solar HV Prim Main Board[R4] | CAP CER .1UF 50V 10% X7R 0805  | DIGIKEY 490-1666-1-ND |                    |                          |        |              |        |                | Cd1, Cd2, Cd3   | 3          |

|                              |   |                               |                    |                              |  |  |                        |                         |    |
|------------------------------|---|-------------------------------|--------------------|------------------------------|--|--|------------------------|-------------------------|----|
| Solar HV Prim Main Board[R4] | 10K   | DIGIKEY<br>RHM10.0KCC<br>T-ND |                    |                              |  |  |                        | R1, R2                  | 2  |
| Solar HV Prim Main Board[R4] | NL  | NL                            |                    |                              |  |  |                        | R3                      | 0  |
| Solar HV Prim Main Board[R4] | <del>74LVC2G17,</del><br><del>DELETE</del>                                    | 150-0018026                   | Texas Instruments  | SN74LVC2G17DC<br>KR          |  |  | 296-13013-2-ND         | U2                      | 0  |
| Solar HV Prim Main Board[R4] | 74LVC2G17,<br>corrected the DIGI<br>p/n (see DIGI p/n<br>column)              |                               | Texas Instruments  | SN74LVC2G17DC<br>KR          |  |  | 296-13012-2-ND         | U2                      | 1  |
| Solar HV Prim Main Board[R4] | ISO7242   | 150-0018027                   | Texas Instruments  | ISO7242ADWR                  |  |  | ISO7242ADWR-<br>ND     | U1                      | 1  |
| USB-JTAG-ISO[R1]             | Cer. Cap - 1u, 6.3V,<br>X5R, 0603   | 121-0000154                   | Panasonic-ECG      | ECJ-1VB1A105K -<br>Obsoleted |  |  | PCC2174CT-ND           | C1, C4, C5              | 3  |
| USB-JTAG-ISO[R1]             | Cer. Cap - 2u2, 6.3V,<br>X5R, 0603  | 121-0000169                   | Murata Electronics | GRM188R60J225<br>ME01D       |  |  | 490-1551-1-ND          | C2                      | 1  |
| USB-JTAG-ISO[R1]             | Cer. Cap - 100n,<br>16V, X7R, 0603  | 121-0000110                   | Murata Electronics | GRM188R71C104<br>KA01D       |  |  | GRM188R71C104<br>KA01D | C3, C6-C16              | 12 |
| USB-JTAG-ISO[R1]             | Cer. Cap - 0.1uf,<br>100V, 20% , Axial  | 221-0005072                   | AVX                | SA111E104MAR                 |  |  | 478-3154-1-ND          | C17                     | 1  |
| USB-JTAG-ISO[R1]             | Diode Array, Quad,<br>SOT363  | 125-0000911                   | Diodes             | BAW567DW-7-F                 |  |  | BAW567DW-<br>FDICT-ND  | DA1                     | 1  |
| USB-JTAG-ISO[R1]             | Standard 0.1" SIL<br>headers, cut to fit,<br>total needed 1x8                 | 260-0008027                   |                    |                              |  |  |                        | J1, J3, J4, J5          | 4  |
| USB-JTAG-ISO[R1]             | Standard 0.1" DIL<br>header, cut to fit,<br>remove pin 6, total<br>needed 2x7 | 260-0009772                   |                    |                              |  |  |                        | J2                      | 1  |
| USB-JTAG-ISO[R1]             | Connector - USB<br>Type B   | 160-0000912                   | Mill-Max           | 897-43-004-90-<br>000000     |  |  | ED90064-ND             | JP1                     | 1  |
| USB-JTAG-ISO[R1]             | Inductor, 22uH, 0805  | 131-0004603                   | Murata             | LQM21FN220N00<br>L           |  |  | 490-4030-1             | L1, L2                  | 2  |
| USB-JTAG-ISO[R1]             | LED, green, 0805  | 144-0000911                   | Stanley            | PG1112H-TR                   |  |  | 404-1021-1             | LD1                     | 1  |
| USB-JTAG-ISO[R1]             | Res. - 470R, 5%,<br>0.1W, 0603  | 101-0000460                   | Rohm               | MCR03EZPJ471                 |  |  | RHM470GCT-ND           | R1                      | 1  |
| USB-JTAG-ISO[R1]             | Res. - 27R, 5%,<br>0.1W, 0603   | 101-0000359                   | Rohm               | MCR03EZPJ270                 |  |  | RHM27GCT-ND            | R2, R3                  | 2  |
| USB-JTAG-ISO[R1]             | Res. - 2K2, 5%,<br>0.1W, 0603   | 101-0000307                   | Rohm               | MCR03EZPJ222                 |  |  | RHM2.2KGCT-ND          | R4, R6, R9,<br>R10, R14 | 5  |
| USB-JTAG-ISO[R1]             | Res. - 1M, 1%, 0.1W,<br>0603  | 101-0000209                   | Rohm               | MCR03EZPFX100<br>4           |  |  | RHM1.00MHCT-<br>ND     | R5                      | 1  |
| USB-JTAG-ISO[R1]             | Res. - 10K, 5%,<br>0.1W, 0603   | 101-0000247                   | Rohm               | MCR03EZPJ103                 |  |  | RHM10KGCT-ND           | R7                      | 1  |
| USB-JTAG-ISO[R1]             | Res. - 1K, 5%, 0.1W,<br>0603  | 101-0000297                   | Rohm               | MCR03EZPJ102                 |  |  | RHM1.0KGCT-ND          | R8                      | 1  |
| USB-JTAG-ISO[R1]             | Res. - 680R, 5%,<br>0.1W, 0603  | 101-0000520                   | Rohm               | MCR03EZPJ681                 |  |  | RHM680GCT-ND           | R11                     | 1  |

|                             |  |             |                      |                              |  |  |  |                        |              |   |
|-----------------------------|--|-------------|----------------------|------------------------------|--|--|--|------------------------|--------------|---|
| USB-JTAG-ISO[R1]            | Res. - 47K, 5%,<br>0.1W, 0603                              | 101-0000466 | Rohm                 | MCR03EZPJ473                 |  |  |  | RHM47KGCT-ND           | R13          | 1 |
| USB-JTAG-ISO[R1]            | FTDI UART/FIFO<br>Dual, 48-LQFP                            | 150-0017881 | FTDI                 | FT2232D-REEL                 |  |  |  | 768-1010-1-ND          | U1           | 1 |
| USB-JTAG-ISO[R1]            | EEPROM, SOT23-6  | 150-0000913 | Microchip            | 93LC46BT-I/OT                |  |  |  | 93LC46BT-I/OTCT-<br>ND | U2           | 1 |
| USB-JTAG-ISO[R1]            | DFF - LVC2G74  | 150-0000407 | Texas<br>Instruments | SN74LVC2G74DC<br>TR          |  |  |  | 296-13273-1-ND         | U3           | 1 |
| USB-JTAG-ISO[R1]            | LDO - 3.3V -<br>TPS73033                                   | 150-0000469 | Texas<br>Instruments | TPS73033DBVR                 |  |  |  | 296-17580-1-ND         | U4           | 1 |
| USB-JTAG-ISO[R1]            | Digital Isolator, Quad<br>4/0, 25Mbps                      | 150-0004608 | Texas<br>Instruments | ISO7240CDW                   |  |  |  | 595-<br>ISO7240CDW     | U5           | 1 |
| USB-JTAG-ISO[R1]            | Digital Isolator, Quad<br>2/2, 25Mbsp                      | 150-0004611 | Texas<br>Instruments | ISO7242CDW                   |  |  |  | 595-<br>ISO7242CDW     | U6           | 1 |
| USB-JTAG-ISO[R1]            | Resonator - 6MHz   | 000-0000911 | Murata               | CSTCR6M00G53<br>Z-R0         |  |  |  | 490-1218-1-ND          | X1           | 1 |
| Solar HV DC-DC<br>Boost[R2] | Film Cap - 47n,<br>630VDC METAL<br>POLY CAP                | 221-0007814 | Panasonic-ECG        | ECQ-E6473KZ -<br>Obsoleted   |  |  |  | E6473-ND               | C4           | 1 |
| Solar HV DC-DC<br>Boost[R2] | Elec. Cap - 100uf,<br>450V, Alum, radial                   | 221-0010341 | United Chemi-<br>Con | EKXG451ELL101<br>MM40S       |  |  |  | 565-1481-ND            | C5,C6,C16    | 3 |
| Solar HV DC-DC<br>Boost[R2] | CAP CER 0.01uF<br>50V 5% 0805                              | 121-0000237 | Murata               | GRM216R71H103<br>KA01D       |  |  |  | 490-1664-1-ND          | C1, C9       | 2 |
| Solar HV DC-DC<br>Boost[R2] | Cer. Cap - 2u2, 25V,<br>X7R, 0805                          | 121-0010984 | Panasonic-ECG        | ECJ-2FF1E225Z -<br>obsoleted |  |  |  | PCC2231CT-ND           | Cd1          | 1 |
| Solar HV DC-DC<br>Boost[R2] | Cer Cap, 22u, 1210,  | 121-0007264 | Murata               | GRM32ER71C226<br>KE18L       |  |  |  | 490-4524-1-ND          | Cd5          | 1 |
| Solar HV DC-DC<br>Boost[R2] | MLC Cap - 3.9uF,<br>500VDC, CAP, (AVX<br>p/n SK087C395KAR) | 221-0018031 | AVX                  | SK087C395KAR                 |  |  |  | 478-5685-ND            | C12,C13      | 2 |
| Solar HV DC-DC<br>Boost[R2] | RES 10.0K OHM<br>1/8W 1% 0805 SMD                          | 101-0000627 | Rohm                 | MCR10EZHF1002                |  |  |  | RHM10.0KCCT-<br>ND     | R1,R2,R7,R11 | 4 |
| Solar HV DC-DC<br>Boost[R2] | RES 10.0 OHM 1/8W<br>1% 0805 SMD                           | 101-0000608 | Rohm                 | MCR10EZHF10R0                |  |  |  | RHM10.0CCT-ND          | R3,R4,R5,R9  | 4 |
| Solar HV DC-DC<br>Boost[R2] | NL   | NL          | Rohm                 | MCR10EZHF2491                |  |  |  | RHM2.49KCCT-<br>ND     | R6,R10       | 0 |
| Solar HV DC-DC<br>Boost[R2] | Res. - 1.0M, 0.1%,<br>0.1W, 0805                           | 101-0000572 | Panasonic-ECG        | ERA-6AEB105V                 |  |  |  | P1MDACT-ND             | R8,R12       | 2 |
| Solar HV DC-DC<br>Boost[R2] | Res. - 1.0M, 0.1%,<br>0.1W, 0805                           | 101-0000572 | Panasonic-ECG        | ERA-6AEB105V                 |  |  |  | P1MDACT-ND             | R13,R14      | 2 |
| Solar HV DC-DC<br>Boost[R2] | RES 13.0K OHM<br>1/8W 1% 0805 SMD,                         | 101-0000661 | Rohm                 | MCR10EZHF1302                |  |  |  | RHM13.0KCCT-<br>ND     | R15          | 1 |
| Solar HV DC-DC<br>Boost[R2] | RES 13.0K OHM<br>1/8W 1% 0805 SMD,                         | 101-0000661 | Rohm                 | MCR10EZHF1302                |  |  |  | RHM13.0KCCT-<br>ND     | R20          | 1 |

|                          |  |             |                       |                       |  |  |        |                                 |            |   |
|--------------------------|--|-------------|-----------------------|-----------------------|--|--|--------|---------------------------------|------------|---|
| Solar HV DC-DC Boost[R2] | RESISTOR .020 OHM 1W 1% 2512   | 101-0009399 | Panasonic-ECG         | ERJ-M1WSF20MU         |  |  |        | P20MCT-ND                       | RS1, RS2   | 1 |
| Solar HV DC-DC Boost[R2] | DIODE ZENER 1W 16V SMA   | 125-0007804 | Micro Commercial      | SMAZ16-TP             |  |  |        | SMAZ16-TPMSCT-ND                | ZD1        | 1 |
| Solar HV DC-DC Boost[R2] | Dual Power Mosfet Driver HS, 4A, 8-SOIC, UCC27324QDRQ1                         | 150-0007815 | Texas Instruments     | UCC27324QDRQ1         |  |  |        | 296-23486-1-ND                  | U1         | 1 |
| Solar HV DC-DC Boost[R2] | IPP60R250CP, MOSFET N-CH 650V 12A TO-220                                       | 240-0007816 | Infineon              | IPP60R250CP           |  |  |        | IPP60R250CPIN-ND                | Q1,Q2      | 2 |
| Solar HV DC-DC Boost[R2] | CSD10060G, DIODE SCHOTTKY 600V 10A TO263-2                                     | 125-0007819 | Cree                  | CSD10060G - obsoleted |  |  |        | CSD10060G-ND                    | D4,D5      | 2 |
| Solar HV DC-DC Boost[R2] | <b>DO NOT POPULATE</b>   | NL          |                       |                       |  |  |        |                                 | D2, D3     | 0 |
| Solar HV DC-DC Boost[R2] | <b>Heat Sink, 2.0", Wakefield, (DELETE)</b>                                    | 676-0007857 | Wakefield Thermal Sol | 637-20ABP             |  |  |        | 345-1030-ND                     | HS1,HS2    | 0 |
| Solar HV DC-DC Boost[R2] | Heat Sink, 1.5", Wakefield,  |             | Wakefield Thermal Sol | 637-15ABPE            |  |  |        | 345-1112-ND                     | HS1,HS2    | 2 |
| Solar HV DC-DC Boost[R2] | Nylon Washers for Heatsink Stad offs , 0.120x0.375 Nylon                       | 675-0009334 | Keystone              | 3118                  |  |  |        | 3118K                           |            | 4 |
| Solar HV DC-DC Boost[R2] | Heat Pads Insulators   | 251-0011236 | Bergquist             | SP400-0.007-00-51     |  |  |        | BER205-ND                       |            | 2 |
| Solar HV DC-DC Boost[R2] | Shoulder washer for Imperial 440 Screws  |             |                       |                       |  |  | Mouser | 749-SW-032-135                  | Ref Q1, Q2 |   |
| Solar HV DC-DC Boost[R2] | Imperial 440 Screws  |             |                       |                       |  |  |        |                                 | Ref Q1, Q2 |   |
| Solar HV DC-DC Boost[R2] | NL   | NL          |                       |                       |  |  |        |                                 | PR1        |   |
| Solar HV DC-DC Boost[R2] | Cooper Inductors , CTX16-18833-R, 100Khz, 500uH, 3A Peak , 400W Boost Inductor | 131-0018033 |                       |                       |  |  |        | CTX16-18833-R                   | L1,L2      | 2 |
| Solar HV DC-DC Boost[R2] | Amplifier, OPA365, SOT-23-5  |             | Texas Instruments     | OPA365AIDBVT          |  |  |        | 296-20645-2-ND                  | U2         | 1 |
| Solar HV DC-DC Boost[R2] | <b>Amplifier, OPA354, SOT-23-5, DELETE</b>                                     | 150-0005126 | Texas Instruments     | OPA354AIDBVT          |  |  |        | 296-13033-1-ND 595-OPA354AIDBVT | U2         | 0 |
| Solar HV DC-DC Boost[R2] | <b>RES 4.99K OHM 1/8W 1% 0805 SMD, DELETE</b>                                  | NL          | Rohm                  | MCR10EZHF4991         |  |  |        | RHM4.99KCCT-ND                  | R16, R19   | 0 |

|                          |   |             |                       |                             |  |  |                       |          |   |
|--------------------------|---|-------------|-----------------------|-----------------------------|--|--|-----------------------|----------|---|
| Solar HV DC-DC Boost[R2] | RES 39.2K OHM<br>1/8W 0.1% 0805<br>SMD                        |             | Rohm                  |                             |  |  |                       | R16, R19 | 2 |
| Solar HV DC-DC Boost[R2] | Res. - 100R, 0.1%,<br>0.1W, 0805,<br><b><u>DELETE</u></b>     | NL          | Rohm                  | MCR10EZHF1000               |  |  | RHM100CCT-ND          | R17, R18 | 0 |
| Solar HV DC-DC Boost[R2] | Res. - 1.05K, 0.1%,<br>0.1W, 0805                             |             |                       |                             |  |  |                       | R17, R18 |   |
| Solar HV DC-DC Boost[R2] | <b>DO NOT POPULATE</b>  | NL          |                       |                             |  |  |                       | C7, C11  | 0 |
| Solar HV DC-DC Boost[R2] | Cer. Cap - 10p, 50V,<br>X7R, 0805, <b><u>DELETE</u></b>       | 121-0000279 | Yageo                 | CC0805JRNP09B<br>N100       |  |  | 311-1099-1-ND         | C8, C10  | 0 |
| Solar HV DC-DC Boost[R2] | Cer. Cap - 100p,<br>25V, X7R, 0805                            |             |                       |                             |  |  |                       | C8, C10  |   |
| Solar HV DC-DC Boost[R2] | Cer. Cap- 330n, 16V,<br>X5R, 0805                             | 121-0011235 | TDK                   | C2012X7R1C334<br>K/1.25     |  |  | 445-1356-1-ND         | Cd3      | 1 |
| DC-PwrEntry1Sw[R1]       | Cer. Cap - 22u, 25V,<br>X5R, 1206                             | 121-0005129 | Taiyo Yuden           | EMK316BJ226ML-<br>T         |  |  | 587-1433-1-ND         | C1       | 1 |
| DC-PwrEntry1Sw[R1]       | Cer. Cap - 10u, 25V,<br>X5R, 1206                             | 121-0002909 | Panasonic-ECG         | ECJ-3YB1E106M-<br>Obsoleted |  |  | PCC2326CT-ND          | C2       | 1 |
| DC-PwrEntry1Sw[R1]       | Cer. Cap - 4u7, 25V,<br>X5R, 0805                             | 121-0000389 | Murata<br>Electronics | GRM21BR61E475<br>KA12L      |  |  | 490-3335-1-ND         | C3       | 2 |
| DC-PwrEntry1Sw[R1]       | Cer. Cap - 0.1uf,<br>25V, X5R, 0805                           | 121-0000249 | Panasonic-ECG         | ECJ-2VB1E104K-<br>Obsoleted |  |  | PCC1828CT-ND          | C4       | 1 |
| DC-PwrEntry1Sw[R1]       | Elec. Cap - 330uf,<br>63V, Alum, radial                       | 221-0009366 | Panasonic-ECG         | ECA-1EHG331                 |  |  | P5542-ND              | C5,C6,C7 | 3 |
| DC-PwrEntry1Sw[R1]       | Res. - 330R, 1%,<br>0.1W, 0805                                | 101-0000881 | Rohm                  | MCR10EZHF3300               |  |  | RHM330CTR-ND          | R1       | 1 |
| DC-PwrEntry1Sw[R1]       | Res. - 470R, 5%,<br>0.1W, 0805                                | 101-0000964 | Rohm                  | MCR10EZPJ471                |  |  | RHM470ARCT-<br>ND     | R2       | 1 |
| DC-PwrEntry1Sw[R1]       | LED, green, 0805  | 144-0000911 | Stanley               | PG1112H-TR                  |  |  | 404-1021-1            | LD1      | 1 |
| DC-PwrEntry1Sw[R1]       | Toggle Switch -<br>Miniature, SPDT                            | 249-0000911 | Mountain<br>Switch    | 108-2AS1T1203-<br>EVX       |  |  | 108-2AS1T1203-<br>EVX | SW1      | 1 |
| DC-PwrEntry1Sw[R1]       | Power Module -<br>PTH08080                                    | 425-0006612 | Texas<br>Instruments  | PTH08080WAH                 |  |  | 296-20432-ND          | M1       | 1 |
| DC-PwrEntry1Sw[R1]       | LDO - 3.3V -<br>TPS79533                                      | 150-0002191 | Texas<br>Instruments  | TPS79533DCQR                |  |  | 296-13810-1-ND        | U1       | 1 |
| DC-PwrEntry1Sw[R1]       | Standard 0.1" SIL<br>headers, cut to fit,<br>total needed 1x2 | 260-0008027 |                       |                             |  |  |                       |          | 1 |

|                            |   |             |                       |                         |  |  |        |                   |            |   |
|----------------------------|---|-------------|-----------------------|-------------------------|--|--|--------|-------------------|------------|---|
| DC-PwrEntry1Sw[R1]         | Power jack 2.1 x 5.5 mm                             | 260-0005141 | CUI                   | PJ-002AH                |  |  |        | CP-002AH-ND       | JP1        | 1 |
| Solar Resonant-HV-SSC [R2] | CAP .015UF 630V MET PLYPRO RAD                      | 221-0014804 | Nichicon              | QXP2J153KRPT            |  |  |        | 493-3654-ND       | C4,C17     | 2 |
| Solar Resonant-HV-SSC [R2] | CAP .015UF 630V MET PLYPRO RAD                      | 221-0014804 | Nichicon              | QXP2J153KRPT            |  |  |        | 493-3654-ND       | C1,C2      | 2 |
| Solar Resonant-HV-SSC [R2] | NL  | NL          |                       |                         |  |  |        |                   | C6         | 1 |
| Solar Resonant-HV-SSC [R2] | Film Cap - 47n, 630VDC METAL POLY CAP               | 221-0007814 | Panasonic-ECG         | ECQ-E6473KZ - obsoleted |  |  |        | E6473-ND          | C3,C5      | 1 |
| Solar Resonant-HV-SSC [R2] | Elec. Cap - 100uf, 450V, Alum, radial               | 221-0010341 | United Chemi-Con      | EKXG451ELL101 MM40S     |  |  |        | 565-1481-ND       | C7, C8, C9 | 3 |
| Solar Resonant-HV-SSC [R2] | NL  | NL          |                       |                         |  |  |        |                   | C12        | 1 |
| Solar Resonant-HV-SSC [R2] | NL  | NL          |                       |                         |  |  |        |                   | C16        | 1 |
| Solar Resonant-HV-SSC [R2] | DIODE SW DUAL 75V 350MW SOT23-3                     | 125-0012375 | Diodes                | BAV99-7-F               |  |  |        | BAV99-FDICT-ND    | D1,D2      | 2 |
| Solar Resonant-HV-SSC [R2] | HEATSINK TO-220 VERT MT BLK 1.5" (DELETE)           | 676-0005123 | Wakefield Thermal Sol | 637-15ABP               |  |  |        | 345-1029-ND       | HS1        | 0 |
| Solar Resonant-HV-SSC [R2] | HEATSINK TO-220 VERT MT BLK 1.5"(DELETE)            | 676-0005123 | Wakefield Thermal Sol | 637-15ABP               |  |  |        | 345-1029-ND       | HS2        | 0 |
| Solar Resonant-HV-SSC [R2] | HEATSINK TO-220 VERT MT BLK 1.5"                    |             | Wakefield Thermal Sol | 637-15ABPE              |  |  |        | 345-1112-ND       | HS1, HS2   | 2 |
| Solar Resonant-HV-SSC [R2] | Standard 0.1" SIL headers, cut to fit, 1x2          | 260-0008027 |                       |                         |  |  |        |                   | GND-P      | 1 |
| Solar Resonant-HV-SSC [R2] | Standard 0.1" SIL headers, cut to fit, 1x2          | 260-0008027 |                       |                         |  |  |        |                   | GND-S      | 1 |
| Solar Resonant-HV-SSC [R2] | Heat Pads Insulators                                | 251-0011236 | Bergquist             | SP400-0.007-00-51       |  |  |        | BER205-ND         |            | 2 |
| Solar Resonant-HV-SSC [R2] | Shoulder washer for Imperial 440 Screws             |             |                       |                         |  |  | Mouser | 749-SW-032-135    | Ref Q1, Q2 |   |
| Solar Resonant-HV-SSC [R2] | Imperial 440 Screws                                 |             |                       |                         |  |  |        |                   | Ref Q1, Q2 |   |
| Solar Resonant-HV-SSC [R2] | LLC Resonant Inductor, 55uH, 120kHz                 | AF5458R     | VITEC                 |                         |  |  |        | Custom from Vitec | L1         | 1 |
| Solar Resonant-HV-SSC [R2] | MOSFET N-CH 600V 20A, 0.19 Ohm TO-220AB, SPP20N60S% | 150-0018030 | Infineon              | SPP20N60C3              |  |  |        | SPP20N60C3IN-ND   | Q1,Q2      | 2 |



|                           |  |             |        |                         |  |  |  |                            |       |   |
|---------------------------|--|-------------|--------|-------------------------|--|--|--|----------------------------|-------|---|
| GateDrvlso-Single-HL [R3] | SCHOTTKY RECT<br>40V 0.5A SOD323,<br><b><u>DELETE</u></b>  | 125-0018029 | NXP    | PMEG4005AEAT/<br>R      |  |  |  | 771-<br>PMEG4005AEAT/<br>R | D3,D4 | 0 |
| GateDrvlso-Single-HL [R3] | SCHOTTKY RECT<br>40V 1.0A SOD323F,<br><b><u>DELETE</u></b> |             | NXP    | PMEG4010CEH             |  |  |  |                            | D3,D4 |   |
| GateDrvlso-Single-HL [R3] | SCHOTTKY RECT<br>40V 1.0A SOD323                           |             | NXP    | PMEG4010BEA             |  |  |  | 568-6523-1-ND              | D3,D4 | 2 |
|                           |  |             |        |                         |  |  |  |                            |       |   |
| GateDrvlso-Single-HL [R3] | DIODE SCHOTTKY<br>30V 200MW SOT23-<br>3                    | 125-0000039 | Diodes | BAT54A-7-F              |  |  |  | BAT54A-FDICT-<br>ND        | D2    | 1 |
| GateDrvlso-Single-HL [R3] | DIODE SCHOTTKY<br>DUAL 30V SOT23-3                         | 125-0014807 | Diodes | BAT54C-7-F              |  |  |  | BAT54C-FDICT-<br>ND        | D1    | 1 |
| GateDrvlso-Single-HL [R3] | CAP CER 2.2UF 16V<br>X7R 10% 1206                          | 121-0000491 | TDK    | C3216X7R1C225<br>K/1.60 |  |  |  | 445-1384-1-ND              | Cd1   | 1 |
| GateDrvlso-Single-HL [R3] | CAP CER 1.0UF 25V<br>X7R 10% 0805                          | 121-0000317 | TDK    | C2012X7R1E105<br>K      |  |  |  | 445-1354-1-ND              | C1    | 1 |



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