

| | A | B | C | D | E |
|----|------|-----|-----------------------------|---|----------------------------------|
| 1 | Item | Qty | Ref - Des | Desc | Manufacturer's Part Number |
| 2 | 1 | 1 | CIN1 | CAP, 150uF 25% 25V ALUM | SUN ELEC. IND. CORP. 35HVH150M |
| 3 | 2 | 16 | CIN2,CIN3,CIN4,CIN5,CIN6, | CAP, 1210 22uF 10% 25V X5R | AVX 1210D226KAT2A |
| 4 | | | CIN7,CIN8,CIN9,CIN10,CIN11, | | |
| 5 | | | CIN14,CIN15,CIN12,CIN13, | | |
| 6 | | | CIN16,CIN17 | | |
| 7 | 3 | 21 | CO1,CO2,CO3,CO4,CO7,CO8, | CAP, 1210 100uF 20% 6.3V X5R | MURATA GRM32ER60J107ME20L |
| 8 | | | CO9,CO10,CO11,CO14,CO15, | | |
| 9 | | | CO16,CO17,CO18,CO21,CO22, | | |
| 10 | | | CO23,CO24,CO25,C31,C32 | | |
| 11 | 4 | 8 | CO5,CO6,CO12,CO13 | CAP, 7343 470uF 20% 4V POSCAP | PANASONIC 4TPE470MCL |
| 12 | | | CO19,CO20,CO26,CO27 | | |
| 13 | 5 | 4 | C1,C14,C19,C24 | CAP, 1206 22uF 10% 10V X7R | MURATA GRM31CR71A226KE15L |
| 14 | 6 | 4 | C2,C15,C20,C25 | CAP, 0805 4.7uF 20% 25V X5R | MURATA GRM21BR61E475MA12L |
| 15 | 7 | 4 | C3,C11,C12,C34 | CAP, 0603 10nF 10% 100V X7R | AVX 06031C103KAT2A |
| 16 | 8 | 0 | C4,C5,C7,C16,C18,C21,C23, | CAP, 0603 OPTION | OPTION |
| 17 | | | C26,C28 | | |
| 18 | 9 | 4 | C6,C17,C22,C27 | CAP, 0603 2200pF 10% 50V X7R | AVX 06035C222KAT2A |
| 19 | 10 | 1 | C8 | CAP, 0603 100pF 10% 50V X7R | AVX 06035C101KAT2A |
| 20 | 11 | 2 | C9,C10 | CAP, 0603 0.47uF 10% 10V X7R | MURATA GRM188R71A474KA61D |
| 21 | 12 | 1 | C13 | CAP, 0603 0.1uF 10% 25V X7R | AVX 06033C104KAT2A |
| 22 | 13 | 2 | C29,C30 | CAP, 0805 10uF 10% 6.3V X5R | MURATA GRM219R60J106KE19D |
| 23 | 14 | 1 | C33 | CAP, 0603 1uF 10% 16V X7R | AVX, 0603YC105KAT2A |
| 24 | 15 | 1 | C35 | CAP, 0603 22pF 5% 50V C0G | MURATA GRM1885C1H220JA01J |
| 25 | 16 | 0 | D1 | DIODE, OPTION | OPTION |
| 26 | 17 | 1 | D2 | DIODE, TRANSIENT VOLTAGE SUPPRESSOR 12V | FAIRCHILD SEMI. SMBJ12A |
| 27 | 18 | 2 | D3,D4 | LED, 0603 GREEN | WURTH ELEKTRONIK 150060GS75000 |
| 28 | 19 | 2 | D5,D6 | LED, 0603 RED | WURTH ELEKTRONIK 150060SS75000 |
| 29 | 20 | 31 | E1,E2,E3,E5,E6,E9,E10, | TURRET | MILL MAX 2308-2-00-80-00-00-07-0 |
| 30 | | | E11,E12,E13,E14,E15,E17, | | |
| 31 | | | E18,E19,E20,E21,E22,E23, | | |
| 32 | | | E24,E25,E27,E30,E31,E32, | | |
| 33 | | | E34,E37,E38,E39,E43,E44 | | |
| 34 | 21 | 2 | E7,E8 | TURRET | MILL MAX 2501-2-00-80-00-00-07-0 |
| 35 | 22 | 6 | J1,J2,J5,J6,J7,J8 | LUG RING, #10 | KEYSTONE 8205 |
| 36 | 23 | 12 | J1,J2,J5,J6,J7,J8 | NUT, BRASS 10-32 | ANY #10-32 |
| 37 | 24 | 1 | JP1 | HEADER, 4PIN, 2mm | SAMTEC TMM-104-02-L-S |
| 38 | 25 | 3 | JP2,JP3,JP4 | HEADER, 3PIN 2mm | SAMTEC TMM-103-02-L-S |

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| 39 | 26 | 6 | J1,J2,J5,J6,J7,J8 | WASHER, #10 TIN PLATED BRASS | ANY #10 EXT BZ TN |
| 40 | 27 | 6 | J1,J2,J5,J6,J7,J8 | STUD | PEM KFH-032-10 |
| 41 | 28 | 2 | J3,J4 | CON, SMA | MOLEX 73391-0060 |
| 42 | 29 | 4 | MH1,MH2,MH3,MH4 | STANDOFF, SNAP ON | KEYSTONE_8831 |
| 43 | 30 | 3 | Q1,Q2,Q3 | XSTR, MOSFET N-CHANNEL | VISHAY SILICONIX SUD50N04-8M8P-4GE |
| 44 | 31 | 1 | Q4 | XSTR, MOSFET N-CHANNEL 30V, 100A | NXP SEMI. PSMN2R0-30YLE,115 |
| 45 | 32 | 2 | RMON1,R39 | RES, 0603 20K OHMS 1% 0.1W | VISHAY CRCW060320K0FKEA |
| 46 | 33 | 0 | RSET1,R1,R3,R13,R16,R21,R43, | RES, 0603 OPTION | OPTION |
| 47 | | | R44,R48,R52,R53,R57,R61,R63, | | |
| 48 | | | R66,R72 | | |
| 49 | 34 | 14 | R2,R10,R17,R19,R45,R47,R50, | RES, 0603 0 OHM | VISHAY CRCW06030000Z0EA |
| 50 | | | R54,R56,R59,R62,R65,R68,R69 | | |
| 51 | 35 | 8 | R4,R5,R12,R15,R28,R31, | RES, 0603 10K OHMS 5% 0.1W | VISHAY CRCW060310K0JNEA |
| 52 | | | R35,R36 | | |
| 53 | 36 | 6 | R6,R11,R29,R46,R55,R64 | RES, 0603 100K OHMS 1% 0.1W | VISHAY CRCW0603100KFKEA |
| 54 | 37 | 1 | R7 | RES, 2010 0.01OHMS 1% 1W | VISHAY WSL2010R0100FEA18 |
| 55 | 38 | 2 | R8,R9 | RES, 0603 51 OHMS 5% 0.1W | VISHAY CRCW060351R0JNEA |
| 56 | 39 | 1 | R14 | RES, 0603 10K OHMS 1% 0.1W | VISHAY CRCW060310K0FKEA |
| 57 | 40 | 4 | R18,R49,R58,R67 | RES 0805 2.2 OHMS 5% 0.125W | VISHAY CRCW08052R20JNEA |
| 58 | 41 | 1 | R20 | RES, 0603 4.99K OHMS 1% 0.1W | VISHAY CRCW06034K99FKEA |
| 59 | 42 | 4 | R22,R51,R60,R70 | RES, 0603 34.8K OHMS 1% 0.1W | VISHAY CRCW060334K8FKEA |
| 60 | 43 | 4 | R24,R26,R32,R37 | RES, 2010 0 OHM | VISHAY CRCW20100000Z0EF |
| 61 | 44 | 2 | R25,R27 | RES. 2512 0.001 OHMS 1% 1W | VISHAY WSL25121L000FEA |
| 62 | 45 | 0 | R76 | RES. 2512 OPTION | OPTION |
| 63 | 46 | 1 | R30 | RES, 0603 107K OHMS 1% 0.1W | VISHAY CRCW0603107KFKEA |
| 64 | 47 | 1 | R38 | RES, 0603 10 OHMS 5% 0.1W | VISHAY CRCW060310R0JNEA |
| 65 | 48 | 1 | R40 | RES, 0603 6.49K OHMS 1% 0.1W | VISHAY CRCW06036K49FKEA |
| 66 | 49 | 1 | R41 | RES, 0603 1K OHMS 5% 0.1W | VISHAY CRCW06031K00JNED |
| 67 | 50 | 1 | R42 | RES, 0603 9.53K OHMS 1% 0.1W | VISHAY CRCW06039K53FKEA |
| 68 | 51 | 4 | R71,R73,R74,R75 | RES, 0603 66.5K OHMS 1% 0.1W | VISHAY CRCW060366K5FKEA |
| 69 | 52 | 4 | U1,U2,U3,U4 | IC, HIGH EFFICIENCY 34A POWER MODULE | LINEAR TECH. LTM4636EY-1 |
| 70 | 53 | 1 | U5 | IC, HOTSWAP CONTROLLER | LINEAR TECH. LTC4218CGN |
| 71 | 54 | 4 | XJP1,XJP2,XJP3,XJP4 | SHUNT 2mm | SAMTEC 2SN-BK-G |