

|    | A    | B   | C                        | D                                   | E                                   |
|----|------|-----|--------------------------|-------------------------------------|-------------------------------------|
| 1  | Item | Qty | Ref - des                | Desc                                | Manufacturer's Part Number          |
| 2  | 1    | 1   | CC1                      | CAP, 0603 100pF 10% 50V C0G         | AVX 06035A101KAT2A                  |
| 3  | 2    | 1   | CC2                      | CAP, 0603 10nF 10% 50V X7R          | AVX 06035C103KAT2A                  |
| 4  | 3    | 0   | CF1,C64                  | CAP, 0603 OPTION                    | OPTION                              |
| 5  | 4    | 2   | CIN1,CIN2                | CAP, 10uF 20% 125V ALUN ELEC        | SUN ELEC. IND. CORP. 5HVH10M        |
| 6  | 5    | 2   | COU1,COU2                | CAP, 56uF 20% 63V HYB POLYMER       | UNITED CHEMI-CON HHXA630ARA560MJA0G |
| 7  | 6    | 3   | C59,C62,CSS              | CAP, 0603 0.1uF 10% 50V X7R         | AVX 06035C104KAT2A                  |
| 8  | 7    | 2   | C4,C22                   | CAP, 0603 0.22uF 10% 25V X7R        | AVX 06033C224KAT2A                  |
| 9  | 8    | 0   | C7,C8,C12,C13,C63        | CAP, 0805 OPTION                    | OPTION                              |
| 10 | 9    | 9   | C9,C14,C25,C26,C27,C35,  | CAP, 2220 1uF 10% 250V X7R          | MURATA GRM55DR72E105KW01L           |
| 11 |      |     | C36,C37,C58              |                                     |                                     |
| 12 | 10   | 1   | C10                      | CAP, 0603 4.7uF 10% 6.3V X5R        | AVX 06036D475KAT2A                  |
| 13 | 11   | 1   | C11                      | CAP, 0603 220pF 5% 100V C0G         | MURATA GRM1885C2A221JA01D           |
| 14 | 12   | 6   | C15,C40,C42,C43,C44,C45  | CAP, 0805 0.1uF 10% 250V X7T        | TDK CGA4J3X7T2E104K125AE            |
| 15 | 13   | 12  | C16,C17,C19,C20,C21,C23, | CAP, 1210 3.3uF 10% 100V X7R        | AVX 12101C335K4T2A                  |
| 16 |      |     | C28,C29,C30,C31,C32,C53  |                                     |                                     |
| 17 | 14   | 1   | C18                      | CAP, 1206 10uF 10% 25V X5R          | MURATA GRM31CR61E106KA12L           |
| 18 | 15   | 1   | C24                      | CAP, 0603 1uF 10% 50V X5R           | TDK C1608X5R1H105K080AB             |
| 19 | 16   | 0   | C41,C46,C47,C54,C55      | CAP, 0805 0.1uF 10% 250V X7T OPTION | TDK CGA4J3X7T2E104K125AE OPTION     |
| 20 | 17   | 1   | C56                      | CAP, 0805 10uF 10% 25V X5R          | MURATA GRM21BR61E106KA73L           |
| 21 | 18   | 1   | C57                      | CAP 10uF 20% 200V ELEC              | NICHICON UUB2D100MNL1GS             |
| 22 | 19   | 2   | C60,C61                  | CAP. 1210 22uF10% 25V X5R           | AVX 12103D226KAT2A                  |
| 23 | 20   | 2   | D4,D7                    | DIODE, SCHOTTKY 1A 200V POWERDI123  | DIODES INC. DFLS1200-7              |
| 24 | 21   | 1   | D8                       | DIODE, ZENER 5.1V 350mW SOT23-3     | DIODES INV. BZX84C5V1-7-F           |
| 25 | 22   | 0   | D9                       | DIODE, OPTION                       | DIODES INC. BAS16-7-F OPTION        |
| 26 | 23   | 0   | D10                      | DIODE, SCHOTTKY OPTION SMB          | OPTION                              |
| 27 | 24   | 0   | D11                      | DIODE, SCHOTTKY OPTION SMA          | OPTION                              |
| 28 | 25   | 0   | D12,D13                  | DIODE, SCHOTTKY OPTION POWERDI5     | OPTION                              |
| 29 | 26   | 4   | E1,E2,E3,E7              | TURRET                              | MILL-MAX 2308-2-00-80-00-00-07-0    |
| 30 | 27   | 10  | E4,E5,E6,E8,E9,E10,E11,  | TURRET                              | MILL-MAX 2501-2-00-80-00-00-07-0    |
| 31 |      |     | E12,E13,E14              |                                     |                                     |
| 32 | 28   | 1   | JP2                      | HEADER, 3PIN, DBL ROW 2mm           | SAMTEC TMM 103-02-L-D               |
| 33 | 29   | 4   | J1,J2,J3,J4              | JACK, BANANA                        | KEYSTONE 575-4                      |
| 34 | 30   | 1   | L1                       | IND, 15uH                           | WURTH ELECTRONIK 7443641500         |
| 35 | 31   | 0   | L2                       | IND, OPTION                         | OPTION                              |
| 36 | 32   | 1   | L3                       | IND, 220uH 30%                      | SUMIDA CDRH105RNP-221NC             |
| 37 | 33   | 4   | MH1,MH2,MH3,MH4          | STANDOFF, SNAP ON                   | KEYSTONE 8834                       |
| 38 | 34   | 2   | Q2,Q6                    | XSTR, N-CHANNEL POWER MOSFET        | INFINEON BSC110N15NS5               |

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|----|----|---|--------------------------|--------------------------------------|-------------------------------|
| 39 | 35 | 1 | Q3                       | XSTR, N-CHANNEL POWER MOSFET         | INFINEON BSC028N06NS          |
| 40 | 36 | 1 | Q4                       | XSTR, N-CHANNEL POWER MOSFET         | INFINEON BSC093N15NS5         |
| 41 | 37 | 2 | Q5,Q9                    | XSTR, N-CHANNEL POWER MOSFET         | INFINEON BSC066N06NS          |
| 42 | 38 | 0 | Q7,Q8                    | XSTR, N-CHANNEL POWER MOSFET OPTION  | OPTION                        |
| 43 | 39 | 0 | Q11,Q12,Q13,Q14,Q15,Q16, | XSTR, AUTOMOTIVE MOSFET OPTION       | OPTION                        |
| 44 |    |   | Q17,Q18,Q19,Q20,Q21,Q22, |                                      |                               |
| 45 |    |   | Q23,Q24,Q25,Q26          |                                      |                               |
| 46 | 40 | 1 | RC                       | RES, 0603 10K OHMS 5% 0.1W           | VISHAY CRCW060310K0JNEA       |
| 47 | 41 | 1 | RFB1                     | RES, 0805 47.5K OHMS 1% 0.125W       | VISHAY CRCW080547K5FKEA       |
| 48 | 42 | 2 | RFB2,R25                 | RES, 0603 1.21K OHMS 1% 0.1W         | VISHAY CRCW06031K21FKEA       |
| 49 | 43 | 9 | R1,R11,R16,R17,R23,R33,  | RES, 0 OHM JUMPER                    | VISHAY CRCW06030000Z0EA       |
| 50 |    |   | R35,R36,R52              |                                      |                               |
| 51 | 44 | 1 | R2                       | RES, 2512 0.004 OHMS 1% 1W           | PANASONIC ERJ-M1WSF4M0U       |
| 52 | 45 | 4 | R3,R4,R9,R10             | RES, 0603 100 OHMS 1% 0.1W           | VISHAY CRCW0603100RFKEA       |
| 53 | 46 | 1 | R5                       | RE, 0805 5.1 OHMS 5% 0.125W          | VISHAY CRCW08055R10JNEA       |
| 54 | 47 | 0 | R6,R12,R15,R34,R40,R41,  | RES, 0603 OPTION                     | OPTION                        |
| 55 |    |   | R48,R51                  |                                      |                               |
| 56 | 48 | 1 | R7                       | RES, 0603 100K OHM 1% 0.1W           | VISHAY CRCW0603100KFKEA       |
| 57 | 49 | 3 | R8,R27,R53               | RES, 0603 10 OHMS 5% 0.1W            | VISHAY CRCW060310R0JNEA       |
| 58 | 50 | 2 | R13,R14                  | RES, 0603 1K OHMS 1% 0.1W            | VISHAY CRCW06031K00FKEA       |
| 59 | 51 | 2 | R18,R19                  | RES, 2512 0.008 OHMS 1% 2W           | BOURNS CRE2512-FZ-R008E-2     |
| 60 | 52 | 1 | R20                      | RES, 2512 0 OHM JUMPER               | TEPRO RN5326                  |
| 61 | 53 | 1 | R21                      | RES, 0603 56.2K OHMS 1% 0.1W         | VISHAY CRCW060356K2FKEA       |
| 62 | 54 | 1 | R22                      | RES, 0805 124K OHMS 1% 0.125W        | VISHAY CRCW0805124KFKEA       |
| 63 | 55 | 0 | R28,R29,R54              | RES, 0805 OPTION                     | OPTION                        |
| 64 | 56 | 1 | R31                      | RES, 0805 3K OHMS 1% 0.125W          | VISHAY CRCW08053K00FKEA       |
| 65 | 57 | 1 | R32                      | RES.,AEC-Q200,2M OHMS,1%,1/10W,0603  | VISHAY CRCW06032M00FKEA       |
| 66 | 58 | 0 | R37,R38                  | RES, 2512 0.01 OHMS 1% 1W OPTION     | VISHAY WSL2512R0100FEA OPTION |
| 67 | 59 | 1 | R39                      | RES, 0805 41.2K OHMS 1% 0.125W       | VISHAY CRCW080541K2FKEA       |
| 68 | 60 | 1 | R49                      | RES, 0603 715K OHMS 1% 0.1W          | VISHAY CRCW0603715KFKEA       |
| 69 | 61 | 1 | R50                      | RES, 0603 51.1K OHMS 1% 0.1W         | VISHAY CRCW060351K1FKEA       |
| 70 | 62 | 1 | SW1                      | SWITCH, SUB-MINIATURE SLIDE 300mA 6V | C&K JS202011CQN               |
| 71 | 63 | 1 | U1                       | IC, BUCK-BOOST CONVERTER             | LINEAR TECH. LTC3777          |
| 72 | 64 | 2 | XJP2,XJP3                | SHUNT 2mm                            | WURTH ELEKTRONIK 60800213421  |