

| Item   | Qty | Ref -Des            | Desc                                   | Manufacturer's Part Number  |
|--|-----|---------------------|--|-----------------------------|
|  |     |                     |  |                             |
| <b>REQUIRED CIRCUIT COMPONENTS:</b>              |     |                     |  |                             |
| 1  | 2   | CIN1,CIN2           | CAP, 180uF 20% 16V                     | SANYO 16SVP180MX            |
| 2  | 2   | CIN3,CIN4           | CAP, 1210 10uF 20% 25V X5R             | TAIYO YUDEN TMK325BJ106MM-T |
| 3  | 2   | COUT1,COUT2         | CAP, 7343 330uF 20% 2.5V POSCAP        | SANYO 2R5TPE330M9           |
| 4  | 4   | COUT3,COUT6,C15,C16 | CAP, 1210 100uF 20% 6.3V X5R           | TDK C3225X5R0J107M          |
| 5  | 2   | C19,C21             | CAP, 0603 1uF 10% 25V X5R              | TAIYO YUDEN TMK107BJ105MA-T |
| 6  | 2   | C22,C27             | CAP, 0603 220nF 10% 25V X7R            | TDK C1608X7R1E224K          |
| 7  | 2   | C24,C25             | CAP, 0603 0.1uF 10% 10V X5R            | AVX 0603ZD104KAT            |
| 8  | 1   | C26                 | CAP, 0603 1.5nF 5% 50V C0G             | MURATA GRM1885C1H152JA01D   |
| 9  | 1   | C28                 | CAP, 0603 220pF 10% 25V NPO            | AVX 06033A221KAT2A          |
| 10   | 1   | C31                 | CAP, 0805 4.7uF 20% 10V X5R            | TDK C2012X5R1A475M          |
| 11   | 1   | D2                  | DOIDE, CMDSH-3                         | CENTRAL SEMI CMDSH-3        |
| 12   | 1   | L1                  | IND, 0.33uH                            | WURTH ELEKTRONIK M744301033 |
| 13   | 1   | Q1                  | XSTR, POWER MOSFET                     | INFINEON BSC050NE2LS        |
| 14   | 1   | Q3                  | XSTR, POWER MOSFET                     | INFINEON BSC010NE2LS        |
| 15   | 1   | Q5                  | XSTR, SUD50N03-09P MOSFET              | SILICONIX SUD50N03-09P      |
| 16   | 5   | R9,R32,R34,R36,R44  | RES, 0603 0 OHM JUMPER 1/10W           | VISHAY CRC06030000Z0EA      |
| 17   | 1   | R10                 | RES, 0603 100K OHM 5% 1/10W            | VISHAY CRCW0603100KJNEA     |
| 18   | 1   | R11                 | RES, 0603 10K OHMS 5% 1/10W            | VISHAY CRCE060310K0JNEA     |
| 19   | 1   | R12                 | RES, 2512 0.010 OHM 5% 1W              | VISHAY WSL2512R0100FEA      |
| 20   | 1   | R27                 | RES 0603 100K OHMS 1% 1/10W            | VISHAY CRCW0603100KFKEA     |
| 21   | 1   | R28                 | RES 0603 1k OHMS 1% 1/10W              | VISHAY CRCW06031K00FKEA     |
| 22   | 1   | R30                 | RES, 0603 931 OHMS 1% 1/10W            | YAGEO RC0603FR-07931RL      |
| 23   | 2   | R31,R45             | RES, 0603 10 OHMS 5% 1/10W             | VISHAY CRCW060310R0JNEA     |
| 24   | 1   | R37                 | RES, 0603 2.2 OHM 5% 1/10W             | VISHAY CRCW06032R20JNEA     |
| 25   | 1   | R38                 | RES, 0603 20K OHM 1% 1/10W             | VISHAY CRCW060320K0FKEA     |
| 26   | 1   | R39                 | RES, 0603 30.1K OHM 1% 1/10W           | VISHAY CRCW060330K1FKEA     |
| 27   | 1   | R40                 | RES, 0603 10K OHM 1% 1/10W             | VISHAY CRCW060310K0FKEA     |
| 28   | 1   | R42                 | RES, 0603 3.01K OHMS 1% 1/10W          | VISHAY CRCW06033K01FKEA     |
| 29   | 1   | R43                 | RES, 0603 4.64K OHM 1% 1/10W           | VISHAY CRCW06034K64FKEA     |
| 30   | 1   | U1                  | IC, STEP-DOWN CONVERTER                | LINEAR TECH LTC3866EUF      |
|  |     |                     |  |                             |
| <b>ADDITIONAL DEMO BOARD CIRCUIT COMPONENTS:</b> |     |                     |  |                             |
| 1  | 0   | COUT4,COUT5         | CAP, 7343 330uF 20% 2.5V POSCAP OPTION | SANYO 2R5TPE330M9 OPTION    |
| 2  | 0   | C23,C29,C32,C33,C34 | CAP, 0603 OPTION                       | OPTION                      |
| 3  | 0   | Q2,Q4               | XSTR, OPTION                           | OPTION                      |

|                 |    |                       |                           |                                  |
|-----------------|----|-----------------------|---------------------------|----------------------------------|
| 4               | 0  | RN1                   | THERMISTOR, OPTION        | OPTION                           |
| 5               | 0  | R1-R6,R35,R41,R47,R48 | RES 0603 OPTION           | OPTION                           |
| 6               | 0  | R18                   | RES, 2512 OPTION          | OPTION                           |
|                 |    |                       |                           |                                  |
|                 |    |                       |                           |                                  |
| <b>HARDWARE</b> |    |                       |                           |                                  |
| 1               | 13 | E1,E2,E4-E8,E10-E15   | TURRET                    | MILL-MAX 2501-2-00-80-00-00-07-0 |
| 2               | 1  | JP1                   | HEADER, 4PIN              | SAMTEC TMM-104-02--L-S           |
| 3               | 1  | JP2                   | HEADER, 3 PIN             | SAMTEC TMM-103-02--L-S           |
| 4               | 2  | J1,J2                 | JACK, BANANA              | KEYSTONE 575-4                   |
| 5               | 2  | J3,J4                 | STUD, TEST PIN            | PEM KFH-032-10                   |
| 6               | 4  | J3,J4                 | NUT, BRASS PL # 10-32     | ANY, #10-32M/S                   |
| 7               | 2  | J3,J4                 | RING, LUG RING #10        | KEYSTONE, 8205                   |
| 8               | 2  | J3,J4                 | WASHER, TIN, PLATED BRASS | ANY                              |
| 9               | 2  | J5,J6                 | CONN,BNC,5 PINS           | CONNEX 112404                    |
| 10              | 4  | MH1,MH2,MH3,MH4       | STANDOFF, SNAP ON         | KEYSTONE_8833                    |
| 11              | 2  | JP1,JP2               | SHUNT                     | SAMTEC 2SN-BK-G                  |