

| Item | Qty. | Ref.                     | Part                                                                               | PCB Footprint     | Part #/man.              | Alt Part #/man. |
|------|------|--------------------------|------------------------------------------------------------------------------------|-------------------|--------------------------|-----------------|
| 1    | 1    | A1                       | All capacitors are type NPO unless otherwise noted                                 |                   |                          |                 |
| 2    | 1    | A2                       | All resistors, capacitors, and inductors have 5% tolerances unless otherwise noted |                   |                          |                 |
| 3    | 1    | A3                       | All capacitor voltages are 16v or greater unless otherwise noted                   |                   |                          |                 |
| 4    | 1    | BT1                      | CR2032LF                                                                           | CR2032-SM         | same/Varta               |                 |
| 5    | 3    | C1,C2,C16                | 100n X7R                                                                           | SM/C_0603S        |                          |                 |
| 6    | 2    | C13,C3                   | 2.2n                                                                               | SM/C_0603S        |                          |                 |
| 7    | 2    | C4,C5                    | 47p                                                                                | SM/C_0402S        |                          |                 |
| 8    | 1    | C6                       | 8.2p                                                                               | sm/c_0402s        |                          |                 |
| 9    | 2    | C7,C12                   | 470p                                                                               | SM/C_0603S        |                          |                 |
| 10   | 1    | C8                       | 100p                                                                               | SM/C_0402S        |                          |                 |
| 11   | 1    | C9                       | 27p                                                                                | SM/C_0402S        |                          |                 |
| 12   | 1    | C10                      | 7-50p                                                                              | SM/4X4.5_TRM_CAP  | TZBX4R500AA110T00/Murata |                 |
| 13   | 1    | C11                      | 56p                                                                                | SM/C_0402S        |                          |                 |
| 14   | 1    | C14                      | 3.9p                                                                               | SM/C_0402S        |                          |                 |
| 15   | 1    | C15                      | 12p                                                                                | SM/C_0402S        |                          |                 |
| 16   | 1    | C17                      | 47n X7R                                                                            | SM/C_0603S        |                          |                 |
| 17   | 1    | C18                      | 820p                                                                               | SM/C_0603S        |                          |                 |
| 18   | 1    | C19                      | 1uF Tantlum                                                                        | SM/CT_3216_12S    |                          |                 |
| 19   | 2    | C22,C20                  | 10p                                                                                | SM/C_0402S        |                          |                 |
| 20   | 1    | C21                      | 33p                                                                                | SM/C_0402S        |                          |                 |
| 21   | 1    | C23                      | 220p                                                                               | sm/c_0402s        |                          |                 |
| 22   | 1    | L1                       | 1m                                                                                 | AX/.375X.150/.031 | CTC-0118-102/Coiltech    |                 |
| 23   | 1    | L2                       | 22nH                                                                               | L_1008S           | 1008cs-220xjbc/Coilcraft |                 |
| 24   | 6    | Q1,Q2,Q3,Q4,Q6,Q8        | MMBT2484LT1                                                                        | sm/sot23_123      | same/motorola            |                 |
| 25   | 1    | Q5                       | MMBTH10LT1                                                                         | SM/SOT23_123      | same/motorola            |                 |
| 26   | 1    | Q7                       | MMBT5087LT1                                                                        | sm/sot23_123      | same/motorola            |                 |
| 27   | 2    | R1,R2                    | 10k                                                                                | SM/R_0402S        |                          |                 |
| 28   | 15   | R3,R4,R5,R6,R7,R9,R10,   | 10Meg                                                                              | SM/R_0603S        |                          |                 |
|      |      | R11,R14,R22,R23,R24,R26, |                                                                                    |                   |                          |                 |
|      |      | R33,R36                  |                                                                                    |                   |                          |                 |
| 29   | 8    | R15,R21,R27,R31,R35,R37, | 2.2Meg                                                                             | sm/r_0402s        |                          |                 |
|      |      | R38,R40                  |                                                                                    |                   |                          |                 |
| 30   | 4    | R16,R18,R28,R29          | 0 ohm                                                                              | SM/R_0402S        |                          |                 |
| 31   | 1    | R19                      | 100K                                                                               | SM/R_0402S        |                          |                 |
| 32   | 1    | R20                      | 820 ohm                                                                            | SM/R_0402S        |                          |                 |
| 33   | 1    | R25                      | 1.5Meg                                                                             | SM/R_0402S        |                          |                 |
| 34   | 2    | R39,R30                  | 4.75Meg 1%                                                                         | SM/R_0603S        |                          |                 |
| 35   | 1    | R32                      | 470k                                                                               | SM/R_0402S        |                          |                 |
| 36   | 1    | R34                      | 6.8Meg                                                                             | SM/R_0603S        |                          |                 |

[illegible]