

**PSU-5 - 12V Component Kit**

| Item             | Description   | Qty | Designator            | Package       |
|------------------|---|-----|-----------------------|---------------|
| <b>CAPACITOR</b> |   |     |                       |               |
| 1                | 100pF 5% Ceramic                                    | 1   | C0                    | RAD-0.2N      |
| 2                | 100nF Ceramic                                       | 4   | C4, C9, C11, C21      | RAD-0.2N      |
| 3                | 10uF 35V Tantalum                                   | 4   | C5, C10, C13, C23     | RB-D7.5-P5.0  |
| 4                | 10uF 35V Electrolytic                               | 4   | C3, C8, C12, C22      | RB-D5.0-P2.0  |
| 5                | 220uF 50V Electrolytic                              | 2   | C1, C6                | RB-D10.0-P5.0 |
| <b>CONNECTOR</b> |   |     |                       |               |
| 6                | FASTON - 4.8mm x 0.8mm PCB TAB                      | 1   | J3                    | -             |
| 7                | 1x2 Pin 9mm Header                                  | 1   | ENABLE0               | 2.54MM        |
| 8                | Jumper Shunt  | 1   | ENABLE0               | 2.54MM        |
| 9                | KK396 - 4-way Straight - Locking Header             | 1   | J3                    | -             |
| 10               | KK396 - 4-way Crimp Housing                         | 1   | J3                    | 3.96MM        |
| 11               | CRIMP - KK396                                       | 4   | J3^4                  | -             |
| 12               | FASTON - 6.3mm x 0.8mm PCB TAB                      | 5   | J1, J2, J10, J11, J21 | -             |
| <b>DIODE</b>     |   |     |                       |               |
| 13               | 1N4004 200V 1A                                      | 4   | D11, D12, D21, D31    | DIODE-0.4     |
| <b>HARDWARE</b>  |   |     |                       |               |
| 14               | M3 x 10mm Bolt PH                                   | 2   | U11, U21              | -             |
| 15               | HEATSINK - TO-220 Type 6021                         | 2   | U11, U21              | -             |
| 16               | M3 Nut  | 2   | U11, U21              | -             |
| <b>LINEAR</b>    |   |     |                       |               |
| 17               | MGS301215 - Isolated 15V 2A DC/DC Converter         | 2   | U1, U2                | -             |
| 18               | LM337 - 1.5A Adjustable Negative Voltage Regulator  | 1   | U21                   | TO-220        |
| 19               | LM317T - 1.5A Adjustable Positive Voltage Regulator | 1   | U11                   | TO-220        |
| <b>INDUCTOR</b>  |   |     |                       |               |
| 20               | Ferrite Bead - 5A                                   | 4   | L2, L4, L11, L21      | AXIAL-0.3     |

