**48V-1A Converter**

|  |  |  |
| --- | --- | --- |
| R1, R7 | 392k |  |
| R2, R8 | 53.6k |  |
| R3, R9 | 41.2k |  |
| R4, R10 | 10k |  |
| R5, R11 | 464k |  |
| R6, R12 | 15.8k |  |
| C1, C2, C5, C6 | 0.01u |  |
| C3, C7 | 4.7u |  |
| C4, C8 | 10u |  |
| L1, L2 | 33u |  |
| D1, D2 | MBRS360 |  |
| U1, U2 | LT3958 |  |
| R41 | 5m |  |

**48V-0.5A Converter**

|  |  |  |
| --- | --- | --- |
| R13 | 392k |  |
| R14 | 53.6k |  |
| R15 | 41.2k |  |
| R16 | 10k |  |
| R17 | 464k |  |
| R18 | 15.8k |  |
| C9, C10 | 0.01u |  |
| C11 | 4.7u |  |
| C12 | 10u |  |
| L3 | 33u |  |
| D3 | MBRS360 |  |
| U3 | LT3958 |  |
| R42 | 10m |  |

**19V-4A Converter**

|  |  |  |
| --- | --- | --- |
| R28 | 51k |  |
| R29, R30 | 100k |  |
| R31, R32 | 100 |  |
| R33, R34 | 0.036 |  |
| R35 | 113k |  |
| R36 | 4.7k |  |
| R37 | 267 |  |
| C30 | 27u |  |
| C31 | 3.3u |  |
| C32, C35 | 0.001u |  |
| C33, C39 | 100p |  |
| C34 | 0.01u |  |
| C36, C37 | 0.22u |  |
| C38 | 4.7u |  |
| C40 | 22u |  |
| C41 | 390u |  |
| L5 | 15u |  |
| D9, D10 | 1N5819 |  |
| D11, D16 | MBRS340 |  |
| D12 | MMSZ5230B |  |
| Q7, Q8, Q9, Q10 | BUK6212 |  |
| U7 | LTC3780 |  |
| R40 | 2m |  |

**12V-3A Converter**

|  |  |  |
| --- | --- | --- |
| R19 | 51k |  |
| R20, R21 | 100k |  |
| R22, R23 | 100 |  |
| R24, R25 | 0.056 |  |
| R26 | 113k |  |
| R27 | 8.06k |  |
| C13 | 27u |  |
| C14 | 3.3u |  |
| C16, C17 | 0.001u |  |
| C20, C19 | 100p |  |
| C18 | 0.01u |  |
| C21, C22 | 0.22u |  |
| C15 | 4.7u |  |
| C23 | 22u |  |
| C24 | 390u |  |
| L4 | 22u |  |
| D5, D6 | 1N5819 |  |
| D4, D8 | MBRS340 |  |
| D7 | MMSZ5230B |  |
| Q3, Q4, Q5, Q6 | BUK6212 |  |
| U7 | LTC3780 |  |
| R39 | 2.5m |  |

**5V-1A Converter**

|  |  |  |
| --- | --- | --- |
| C28, C29 | 10u |  |
| U6 | R-78E-0.5 |  |
| R38 | 5m |  |