BOM List Reference Board
REF_ILD8150_DC_1.5A

| | Designator | Value | Description | Manufacturer | Manufacturer Part number |
|---|---|---|---|---|---|
| 1 | BOOT | 5000 | Test-point THT, red | Keystone | 5000 |
| 2 | C1 | 4.7 µF | Commercial-grade multi-layer ceramic chip capacitor | TDK | C3225X7S2A475K200AB |
| 3 | C2 | 100 nF | Surface-mount multi-layer ceramic chip capacitor | TDK | C3216X7R2A104K160AA |
| 4 | C4 | 10 nF | Surface-mount ceramic capacitor automotive grade | AVX | 12061C103K4Z2A |
| 5 | C5 | – | Surface-mount ceramic capacitor automotive grade | AVX | 12061C103K4Z2A |
| 6 | C6 | 22 n | Cap-0805-22n/100 V/0.1/X7R | AVX | 08051C223K4Z2A |
| 7 | C7 | 100 n | Cap-0603-100 n/50 V/0.1/X7R | AVX | 06035C104K4Z2A |
| 8 | C8 | 100 p | Cap-0805-100 p/25 V/0.1/NP0 | Kemet | C0805C101K3GACTU |
| 9 | C9 | 180 pF | Surface-mount multi-layer ceramic chip capacitor | Kemet | C0603C181J5GACTU |
| 10 | C11 | 10 p | GCM-series general-purpose monolithic ceramic capacitor for automotive | Murata | GCM1885C1H100JA16# |
| 11 | CS | 5000 | Test-point THT, red | Keystone | 5000 |
| 12 | D1 | MBR2H100SF | SMD Schottky power rectifier 2.0 A/100 V | ON Semiconductor | MBR2H100SFT3G |
| 13 | D2 | SMBJ43A | SMBJ 600 W Transil, uni-directional TVS diode/51 V | Bourns | SMBJ43A |
| 14 | DIM | 5000 | Test-point THT, red | Keystone | 5000 |
| 15 | GND | 5000 | Test-point THT, red | Keystone | 5000 |
| 16 | J1 | – | WR-TBL Serie 3095 – 5.08 mm reversed gender horizontal PCB header, 04 p | Würth Elektronik | 691309510004 |
| 17 | J2 | – | WR-TBL Serie 4123 – 3.81 mm screwless 45-degree entry, 2 p | Würth Elektronik | 691412320002 |
| 18 | J3 | HTSW-102-07-L-S | Through-hole .025" SQ post header, 2.54 mm pitch, 2-pin, vertical, single row | Samtec | HTSW-102-07-L-S |
| 19 | J4 | – | WR-TBL Serie 4123 – 3.81 mm screwless 45-degree entry, 2 p | Würth Elektronik | 691412320002 |
| 20 | L1 | n.a. | 860 µH Bobbin-type inductor | Würth Elektronik | 7447075 |
| 21 | L2 | 100 µH | WE-PD SMD shielded power inductor, size 1210, 2.5 A, 0.1 Ω, 100 µH | Würth Elektronik | 7447709101 |
| 22 | R1 | 1.5 k | 1.5 k/150 V/1 percent | Vishay | CRCW08051K50FKEA |
| 23 | R2 | 18.2 R | 18.2R/200 V/1 percent | Vishay | CRCW120618R2FKEA |
| 24 | R3 | 4.30 R | Standard thick-film chip resistor | Vishay | CRCW12064R30FK |

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|---|---|---|---|---|---|
| 25 | R4 | 4.30 R | Standard thick-film chip resistor | Vishay | CRCW12064R30FK |
| 26 | R6 | 4.30 R | Standard thick-film chip resistor | Vishay | CRCW12064R30FK |
| 27 | R7 | 3.60 R | Standard thick-film chip resistor | Vishay | CRCW12063R60FK |
| 28 | R8 | 2.05 R | Standard thick-film chip resistor | Vishay | CRCW12062R05FK |
| 29 | R9 | 2.05 R | Standard thick-film chip resistor | Vishay | CRCW12062R05FK |
| 30 | R10 | 1.33 R | Standard thick-film chip resistor | Vishay | CRCW12061R33FK |
| 31 | R11 | 1.33 R | Standard thick-film chip resistor | Vishay | CRCW12061R33FK |
| 32 | R12 | 0 R | 0 R/200 V/20 mΩ | Vishay | CRCW12060000Z0EA |
| 33 | R15 | 220 R | 220 R/150 V/1 percent | Yageo/Phycomp | RC0805FR-07220R |
| 34 | R16 | 1.4 R | 1.4 R/200 V/1 percent | Vishay | CRCW12061R40FKEA |
| 35 | SD | 5000 | Test-point THT, red | Keystone | 5000 |
| 36 | SW | 5000 | Test-point THT, red | Keystone | 5000 |
| 37 | U1 | ILD8150E | DC-DC LED driver IC | Infineon | ILD8150E |
| 38 | VCC | 5000 | Test-point THT, red | Keystone | 5000 |
| 39 | VIN | 5000 | Test-point THT, red | Keystone | 5000 |
| 40 | X5 | 5000 | Test-point THT, red | Keystone | 5000 |
| 41 | X9 | TSW-103-08-G-D | 2.54 mm pitch header strip, 6 pins, vertical, double row | Samtec | TSW-103-08-G-D |
| 42 | | SNT-100-BK-T-H | 2.54 mm pitch, 2-pin jumper | Samtec | SNT-100-BK-T-H |