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	860 µH	Bobbin-type inductor	Würth Elektronik	7447075
21	L2	n.a.	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