

BOM listing for the hot board

Item	Quantity	Part Reference	BOM_Name	Manufacturer PN	BOM_Package	Value	BOM_Vendor	PCB Footprint
1	6	BR1-BR6	IC RECT BRIDGE 400V 1.5A 4SDIP	DF04S	4-SMD	DF04S	Digikey	DIP.200B/4/W.300/DFS
2	1	BT1	BATT LITH 1/2AA 3.6V HC W/LEADS	TL-5902/P	thruhole	TL-5902/P	439-1005-ND	BATT/.5AA/TABBED
3	3	C1, C3, C5	CAP 1000µF 16V ALUM LYTIC RADIAL	P5142-ND	THRUHOLE, 5mm	1000µF	ECA-1CM102	CAP_AL_10X16_5mm
4	24	C2, C4, C6, C16, C17, C20-C23, C25-C39	CAP 0.10µF 50V CERAMIC X7R 0805	C0805C104K5RACTU	0805	100nF	399-1170-1-ND	SM_C_0805
5	9	C7-C15	CAP 10000pF 50V CERM CHIP 0805	ECJ-2VB1H103K	0805	10nF	PCC103BNCT-ND	SM_C_0805
6	2	C18, C19	CAP CER 18pF 50V NP0 0805	CC0805JRNPO9BN180B	0805	18pF	311-1298-1-ND	SM_C_0805
7	1	C24	CAP CER 2.2µF 10V 10% X7R 0805	GRM21BR71A225KA01L	0805	2.2µF	490-1696-1-ND	SM_C_0805
8	2	D1, D2	DIODE SCHOTTKY 1A 40V SMA	SS14-E3/61T	DO-214AC	SS14-E3/61T	SS14-E3/61TGICT-ND	DO214AC_P1_ANODE
9	6	D3-D8	DIODE SCHOTTKY 30V 200mA SOT23	BAT54 T/R	SOT23	BAT54 T/R	568-1610-1-ND	SM/SOT23_3L
10	5	ISO1-ISO5	Optocouplers 10Mbit/s Optocoupler 1Ch HS Logic Gate	6N137-300E	soic-8	6N137	630-6N137-300E	SOIC8_R23W_R22L_R050PTCH
11	1	J1	Plated thru hole, 90mil square pad, 51mil hole	NETLIST ONLY	THRUHOLE	Hole	NETLIST ONLY	SINGLE_PIN/90S/51H
12	15	J2-J12, J14-J17	Plated thru hole, 75mil square pad, 38mil hole	NETLIST ONLY	THRUHOLE	Hole	NETLIST ONLY	SINGLE_PIN/38S
13	1	J13	Header, 2x6	3M 929647-09-12-I	HDR2X6	CON12A	3M 929647-09-12-I	CONN/12/2X6/LS100
14	1	JU1	Jumper 2-pin NO	3M 929647-09-02-I	HDR1X2	Jumper 2-pin NO	929647-09-02-ND	HDR/DIL/1X2/LS100
15	1	L1	EMI SUPPRESSION CHIP BEADS, 600Ω @ 100MHz	2512066017Y1	1206	2512066017Y1	623-2512066017Y1	SM_L_1206
16	4	L2-L5	EMI SUPPRESSION CHIP BEADS, 600Ω @ 100MHz	2512066017Y1	1206	2512066017Y1	623-2512066017Y1	SM/L_1206
17	4	L6-L9	INDUCTOR FIXED 2200UH 10% RADIAL	tbd	Radial thruhole	2.2mH	tbd	IND/RADIAL/CYL/10mm-DIA/7mm-LS
18	4	Q1-Q4	TRANS GP SS PNP 40V SOT23	MMBT3906LT1G	soT23	MMBT3906	MMBT3906LT1GOSCT-ND	SM/SOT23_BEC
19	1	R1	RES 976kΩ 1/8W 1% 0805 SMD	ERJ-6ENF9763V	0805	976kΩ	P976KCCT-NDv	SM_R_0805
20	1	R2	RES 510kΩ 1/8W 1% 0805 SMD	CRCW080551K0FKEA	0805	510kΩ	541-510KCCT-ND	SM_R_0805
21	24	R3-R10, R13-R20, R23-R30	RES 68.0kΩ 1/4W 1% 1206 SMD	MCR18EZHf6802	0805	68kΩ	541-68.0KCCT-ND	SM_R_1206
22	17	R11, R12, R21, R22, R31, R32, R46, R47, R50, R51, R53, R55, R57, R59, R61, R63, R65	RES 1.00kΩ 1/8W 1% 0805 SMD	CRCW08051K00FKEA	0805	1kΩ	541-1.00KCCT-ND	SM_R_0805
23	6	R33, R36, R37, R40, R41, R44	RES 2.00kΩ 1/8W 1% 0805 SMD	CRCW08052K00FKEA	0805	2kΩ	541-2.00KCCT-ND	SM_R_0805
24	6	R34, R35, R38, R39, R42, R43	RES 10.0Ω 1/8W 1% 0805 SMD	CRCW080510R0FKEA	0805	10Ω	541-10.0CCT-ND	SM_R_0805
25	1	R45	RES 20.0Ω 1/8W 1% 0805 SMD	MCR10EZHf20R0	0805	20Ω	RHM20.0CCT-ND	SM_R_0805
26	9	R48, R49, R52, R54, R56, R58, R60, R62, R64	RES 220Ω 1/8W 1% 0805 SMD	CRCW0805220RFKEA	0805	220Ω	541-220CCT-ND	SM_R_0805
27	2	R66, R67	RES 10.0kΩ 1/8W 1% 0805 SMD	CRCW080510K0FKEA	0805	10kΩ	541-10.0KCCT-ND	SM_R_0805
28	3	RV1-RV3	SUR ABSORBER 14mm 430V 4500A ZNR	ERZ-V14D431	thruhole	ERZ-V14D431	P7267-ND	DISC/.625X.300/LS.300X.100/.037
29	3	T1-T3	TRANSFORMER, 220V PRI, 7.5V DUAL SECONDARY	DB35-16-001T	THRUHOLE	XFMR	DB35-16-001T	XFMR/220PRI/8.2SEC/DB35-16-001T
30	1	U1	IC REG LINEAR 350mA LDO 8-SOIC	MAX1658ESA+	8/SO.150	MAX1658ESA+	SOG.050/8/WG.244/L.200	SOG.050/8/WG.244/L.200
31	1	U2	MAXQ3180-28	MAXQ3180	28-tssop	MAXQ3180-28-PRELIMINARY	MAXQ3180	TSSOP/28/0.65
32	4	U3-U6	OPTOCOUPLER 1CH TRANS OUT 4-S	PS2501L-1-A	4-SMD	PS2501-1	PS2501L-1A-ND	DIP.100B/4/W.300/DFS
33	1	Y1	CRYSTAL 8.00MHz 20pF HC-49/µs	ECS-80-20-4X	hc49/µs	8MHz	X1094-ND	HC49/LS200