

DSUPPLY Power Supply – ver.B

Parts List

Identifier	Value	Manufacturer	Manufacturer Part	Physical Detail	Supplier	Supplier Part Number	Lead Time	Req. Qty.	Unit Price	Total Price	
Resistors											
R1,9	0.1R 0.5W metal film resistor	TE	1622598-1	6.2mm x 2.3mm	Digikey	A105964CT-ND		1	2	\$0.13	\$0.26
R3,5,6,7,8,11	1.1K 1% metal film resistor	Yageo	MFR-25FBF-1K10	0.094" x 0.248"	Digikey	1.10KXBK-ND		1	6	\$0.02	\$0.12
R4,12	4.75K 0.25W 1% metal film resistor	Yageo	MFR-25FBF-4K75	0.094" x 0.248"	Digikey	4.75KXBK-ND		1	2	\$0.02	\$0.04
R2,10	10K 0.25W 1% metal film resistor	Yageo	MFR-25FBF-10K0	0.094" x 0.248"	Digikey	10.0KXBK-ND		1	2	\$0.02	\$0.04
Capacitors											
C7,12	100pF 50V 5% ceramic	TDK	FK18C0G1H101J	4mm x 2.5mm	Digikey	445-4771-ND		1	2	\$0.11	\$0.22
C8,13	330pF 50V 5% ceramic	TDK	FK18C0G2A331J	4mm x 2.5mm	Digikey	445-4385-ND		1	2	\$0.13	\$0.26
C6,11	1000pF 100V 10% ceramic	Vishay	K102K15X7RH5TL2	4mm x 2.5mm	Digikey	BC1108CT-ND		1	2	\$0.06	\$0.12
C5,9,10,14,17,18	0.1uF 50V 10% ceramic	Murata	RPER71H104K2P1A03B	0.100" lead spacing	Digikey	490-3810-ND		1	6	\$0.10	\$0.60
C1,2,3,4,15,16	150uF 35V electrolytic capacitor	Panasonic	EEU-FM1V151	3.5mm x 8mm	Digikey	P12408-ND		1	6	\$0.20	\$1.20
Semiconductors											
D1,2,3,4	60V 2A schottky diode	ST	STPS2L60	DO-41	Digikey	497-3214-1-ND		1	4	\$0.35	\$1.40
LED1,2	5mm LED – red	Kingbright	WP7113ID	5mm	Digikey	754-1264-ND		1	2	\$0.07	\$0.14
U1,2	LT1624 DC-DC controller	Linear	LTC1624CS8#PBF	8SOIC	Digikey	LTC1624CS8#PBF-ND		1	2	\$4.06	\$8.12
Q1,2	MOSFET N-ch 40V 18A 8.5mR	Diodes Inc.	DMN4009LK3-13	DKPAK	Digikey	DMN4009LK3-13DICT-ND		1	2	\$0.40	\$0.80
Misc.											
L1,2	47uH inductor 2.1A 75mR	TDK	TSL1112RA-470K2R1-PF	see datasheet	Digikey	445-3770-1-ND		1	2	\$0.69	\$1.38
X1	2.1mm DC jack vertical – high current	CUI	PJ-044AH	see datasheet	Digikey	CP-044AH-ND		1	1	\$0.93	\$0.93
X2,3,4	16 pos (8x2) shrouded header pins	Sullins	SBH11-PBPC-D08-ST-BK	see datasheet	Digikey	S9171-ND		1	3	\$0.34	\$1.02
S1	SPDT ON-ON slide switch	CW	GF-126-0159	see datasheet	Digikey	SW342-ND		1	1	\$0.62	\$0.62
PCB	custom PCB – 0.062" FR-4 2 layers, gold immersion, blue mask, white silk	Kilpatrick	DSUPPLY-PCB-B	4.250" x 1.800"	TBD	DSUPPLY-PCB-B		1	1	\$4.19	\$4.19
										Total	\$21.46