

BOM

Item	Ref	Qty	Manufacturer	Part Number	Description	Distributor	Stock Number	Value	Modifier	Cost	Extended Cost
1	C1-8 C14 C17 C20	11	Yageo	CC0805KRX7R9BB104	Capacitor, Ceramic, 0.1uF, 50V, 10%, X7R, 0805	Digi-Key	311-1140-1-ND	0.1uF	50V	\$0.05	\$0.51
2	C15-16 C18-19	4	Murata Electronics	GRM32ER72A225KA35L	Capacitor, Ceramic, 2.2uF, 100V, ±10%, X7R, 1210	Digi-Key	490-3385-1-ND	2.2uF	100V	\$2.98	\$11.92
3	C11-13	3	Nichicon	UPW1E221MPD	Capacitor, Electrolytic, 220uF, 25V, 20%, Radial	Digi-Key	493-1823-ND	220uF	25V	\$1.05	\$3.15
4	C9-10	2	Nichicon	UPW1H331MPD	Capacitor, Electrolytic, 330uF, 50V, 20%, Radial	Digi-Key	493-1908-ND	330uF	50V	\$0.66	\$1.32
5	C21	1	Panasonic - ECG	DS441505-BA	Capacitor, Metallized Polypropylene Film, 5uF, ±10%, 440V, Chassis Mount	Digi-Key	P9660-ND	5uF	440V	\$8.38	\$8.38
6	L1	1	Hammond Manufacturing	195J10	Choke, DC Reactor, 10mH, 10A	Digi-Key	195J10-ND	10mH	10A	\$71.41	\$71.41
7	U8-9	2	International Rectifier	IR2113STRPBF	IC, Driver, Hi and Low Side, SOIC16	Digi-Key	IR2113SPBFCT-ND			\$5.58	\$11.16
8	U2	1	National Semiconductor	TL082CM/NOPB	IC, Op-Amp, Dual, J-FET Input, SOIC8	Digi-Key	TL082CM-ND		13V/us	\$1.39	\$1.39
9	U4	1	National Semiconductor	LM2990T-15/NOPB	IC, Regulator, Negative, -15V, 1A, TO-220	Digi-Key	LM2990T-15-ND	-15V	1A	\$3.20	\$3.20
10	U5	1	National Semiconductor	LM2940CT-15/NOPB	IC, Regulator, Positive, +15V, 1A, TO-220	Digi-Key	LM2940CT-15-ND	+15V	1A	\$1.83	\$1.83
11	U6	1	National Semiconductor	LM2940CT-5.0/NOPB	IC, Regulator, Positive, +5V, 1A, TO-220	Digi-Key	LM2940CT-5.0-ND	+5V	1A	\$1.83	\$1.83
12	U7	1	ON Semiconductor	MC74ACT132DG	IC, Schmitt Trigger, NAND, Quad, SOIC14	Digi-Key	MC74ACT132DGOS-ND	24mA		\$0.41	\$0.41
13	U3	1	National Semiconductor	LM311M	IC, Voltage Comparator, SOIC8	Digi-Key	LM311MFS-ND	Single	SOIC8	\$0.45	\$0.45
14	Q1-4	4	International Rectifier	IRGB8B60KPBF	IGBT, Ultra Fast, 600V, 28A, TO220AB	Digi-Key	IRGB8B60KPBF-ND	28A	600V	\$2.68	\$10.72
15	U1	1	Maxim Integrated Products	MAX5437EUD+	Low-Drift Digital Potentiometer, ±15V, 50K, 128 Tap, SPI, TSSOP14	Digi-Key	MAX5437EUD+-ND		128 Tap	\$9.81	\$9.81
16	D2-3	2	Diodes Inc.	1N4007-T	Rectifier, 1000V, 1A, DO41	Digi-Key	1N4007DICT-ND	1000V	1A	\$0.30	\$0.60
17	D1	1	Diodes Inc	PB66	Rectifier, Bridge, 600V, 6A, PB-6	Digi-Key	PB66DI-ND	6A	600V	\$1.69	\$1.69
18	R1 R5-6	3	Rohm	MCR10EZHF1002	Resistor, Chip, 10.0K, 0.125W, ±1%, 0805	Digi-Key	RHM10.0KCCT-ND	10K0	0.125W	\$0.04	\$0.11
19	R2	1	Panasonic - ECG	ERJ-6ENF2201V	Resistor, Chip, 2.20K, 0.125W, ±1%, 0805	Digi-Key	P2.20KCCT-ND	2.20K	0.125W	\$0.09	\$0.09
20	R8-11	4	Panasonic - ECG	ERJ-6RQF3R3V	Resistor, Chip, 3R30, 0.125W, ±1%, 0805	Digi-Key	P3.30CCT-ND	3R30	0.125W	\$0.21	\$0.84
21	R4	1	Rohm	MCR10EZHF4701	Resistor, Chip, 4.70K, 0.125W, ±1%, 0805	Digi-Key	RHM4.70KCCT-ND	4K70	0.125W	\$0.04	\$0.04
22	R3	1	Panasonic - ECG	ERJ-6ENF8201V	Resistor, Chip, 8.20K, 0.125W, ±1%, 0805	Digi-Key	P8.20CCT-ND	8.20K	0.125W	\$0.09	\$0.09
23	T1	1	Tamura	PF24-30	Transformer, 15VAC 1.6A, 30VAC 800mA	Digi-Key	MT1124-ND	15-VAC-15	Dual Secondary	\$23.25	\$23.25
24	T2	1	Acme Electric/Amveco/Actown	MT1000DS	Transformer, Isolation, Medical, Power	Digi-Key	TE1000DS-ND	240VAC	4.16A	\$221.96	\$221.96
										TOTAL:	\$386.16