

	Part Description	Vendor	Vendor #	Mouser	DigiKey	Mouser	DigiKey	
C1	15000uF 10V Electrolytic Capacitor	United Chemi-Con	EKYB100ELL153MM40S	661-EKYB100E153MM40S	565-3859-ND	2.69	2.75	SEE NOTE #1
C2	4700uF 6.3V Electrolytic Capacitor	Nichicon	UPW0J472MHD6	647-UPW0J472MHD6	493-1717-ND	1.05	1.05	
C3	4700uF 6.3V Electrolytic Capacitor	Nichicon	UPW0J472MHD6	647-UPW0J472MHD6	493-1717-ND	1.05	1.05	
C4	47uF 450V Electrolytic Capacitor	Nichicon	LGJ2W470MELY20	647-LGJ2W470MELY20	493-14383-ND	3.97	3.98	
C5	150uF 450V Electrolytic Capacitor	KEMET	PEH534YDB3150M2	80-PEH534YDB3150M2	399-5687-ND	6.45	6.44	
C6	100uF 450V Electrolytic Capacitor	KEMET	ESU107M450AN9AA	80-ESU107M450AN9AA	399-15754-ND	3.12	3.28	
C7	100uF 450V Electrolytic Capacitor	KEMET	ESU107M450AN9AA	80-ESU107M450AN9AA	399-15754-ND	3.12	3.28	
C8	1000uF 6.3V Electrolytic Capacitor	Nichicon	UPW0J102MPD	647-UPW0J102MPD	493-1707-ND	0.42	0.42	
C9	.1uF 450V (or higher) tubular capacitor							
C10	1000uF 6.3V Electrolytic Capacitor	Nichicon	UPW0J102MPD	647-UPW0J102MPD	493-1707-ND	0.42	0.42	
C11	.1uF 450V (or higher) tubular capacitor							
C12	15000uF 10V Electrolytic Capacitor	United Chemi-Con	EKYB100ELL153MM40S	661-EKYB100E153MM40S	565-3859-ND	2.69	2.75	
C13	15000uF 10V Electrolytic Capacitor	United Chemi-Con	EKYB100ELL153MM40S	661-EKYB100E153MM40S	565-3859-ND	2.69	2.75	
C14	1uF 450 volt cap	Panasonic	ECW-FD2W105J	667-ECW-FD2W105J	PCF1616-ND	0.7	0.69	
C15	1uF 450 volt cap	Panasonic	ECW-FD2W105J	667-ECW-FD2W105J	PCF1616-ND	0.7	0.69	
D1	STPS30L30CT dual schottky rectifier	STMicroelectronics	STPS30L30CT	511-STPS30L30CT	497-2756-5-ND	2.11	2.11	
D2	UF4007 diode	ON Semiconductor	UF4007	512-UF4007	UF4007CT-ND	0.44	0.44	
D3	UF4007 diode	ON Semiconductor	UF4007	512-UF4007	UF4007CT-ND	0.44	0.44	
D4	1N5401 diode	ON Semiconductor	1N5401RLG	863-1N5401RLG	1N5401RLGOSCT-ND	0.41	0.42	
D5	1N5401 diode	ON Semiconductor	1N5401RLG	863-1N5401RLG	1N5401RLGOSCT-ND	0.41	0.42	
D6	1N5383BRLG Zener Diode	ON Semiconductor	1N5383BRLG	863-1N5383BRLG	1N5383BRLGOSCT-ND	0.46	0.48	SEE NOTE #7
D7	UF4007 diode	ON Semiconductor	UF4007	512-UF4007	UF4007CT-ND	0.44	0.44	
IC1	IXCP10M45S CCS IC	IXYS	IXCP10M45S	747-IXCP10M45S	IXCP10M45S-ND	2.6	2.6	
IC2	IXCP10M45S CCS IC	IXYS	IXCP10M45S	747-IXCP10M45S	IXCP10M45S-ND	2.6	2.6	
IC3	Microchip MIC29502WT	Microchip	MIC29502WT	998-MIC29502WT	576-1145-ND	7.61	7.61	
Q1	STF3LN80K5 Mosfet	STMicroelectronics	STF3LN80K5	511-STF3LN80K5	497-17291-ND	1.05	1.23	
Q2	STF3LN80K5 Mosfet	STMicroelectronics	STF3LN80K5	511-STF3LN80K5	497-17291-ND	1.05	1.23	
R1	100 ohm 1% 1/4 watt metal film resistor	Generic		271-100-RC	100XBK-ND	0.22	0.1	
R2	SEE NOTE #2	Generic	SEE NOTE #2	SEE NOTE #2	SEE NOTE #2	0.22	0.1	SEE NOTE #2
R3	2.2 ohm 5% 3 watt metal film resistor	Vishay BC	PR03000202208JAC00	594-5093NW2R200J	BC4826CT-ND	0.48	0.53	
R4	150 ohm 5 W resistor	Generic		SQP500JB-150R	150W-5-ND	1.06	0.63	SEE NOTE #8
R5	270 ohm 5% 1 W metal film resistor				270W-1-ND	0.18	0.24	
R6	10 K ohm 6.5 W resistor	Dale	CW00510K00JE73	71-CW00510K00JE73	CWD-10KRCT-ND	0.73	1.39	
R7	NO LONGER USED, deleted from board							
R8	121 K 1/4 watt resistor	Generic		71-CCF55121KFKE36	121KXBK-ND	0.17	0.1	
R9	2 K ohm trimmer potentiometer	Piher	PTC10LV10-202A2020	531-PTC10V-2K	1993-1160-ND	0.96	0.96	
R10	620 ohm 1% 1/4 watt metal film resistor	Generic		271-620-RC	S620CACT-ND	0.22	0.1	
R11	24K 5% 2 watt metal film resistor	Vishay BC	PR02000202402JR500	594-5083NW24K00J	PPC24KW-2CT-ND	0.34	0.45	
R12	100 K ohm trimmer potentiometer	Piher	PTC10LV10-104A2020	531-PTC10V-100K	1993-1161-ND	0.96	0.96	
R13	150K 5% 2 watt metal film resistor	Vishay BC	PR02000201503JR500	594-5083NW150K0J	PPC150KW-2CT-ND	0.34	0.45	
R14	20K 5% 3 watt metal film resistor	Vishay BC	PR03000202002JAC00	594-5093NW20K00J	PPC20KW-3JCT-ND	0.48	0.53	
R15	1 Megohm 1% 1/4 watt metal film resistor	Generic		271-1.0M-RC	S1MCACT-ND	0.22	0.1	
R16	330 ohm 1% 1/4 watt metal film resistor	Generic		271-330-RC	S330CACT-ND	0.22	0.1	
R17	1K 1% 1/4 watt metal film resistor	Generic		271-1K-RC	1.00KXBK-ND	0.22	0.1	
R18	Wirewound 10 ohm 1% 1 watt resistor	Yageo	KNP100FR-73-10R	603-KNP100FR-73-10R	10ABCT-ND	0.55	0.56	
R19	121 K 1/4 watt resistor	Generic		71-CCF55121KFKE36	121KXBK-ND	0.17	0.1	
R20	2 K ohm trimmer potentiometer	Piher	PTC10LV10-202A2020	531-PTC10V-2K	1993-1160-ND	0.96	0.96	

R21	620 ohm 1% 1/4 watt metal film resistor	Generic		271-620-RC	S620CACT-ND	0.22	0.1	
R22	24K 5% 2 watt metal film resistor	Vishay BC	PR02000202402JR500	594-5083NW24K00J	PPC24KW-2CT-ND	0.34	0.45	
R23	100 K ohm trimmer potentiometer	Piher	PTC10LV10-104A2020	531-PTC10V-100K	1993-1161-ND	0.96	0.96	
R24	150K 5% 2 watt metal film resistor	Vishay BC	PR02000201503JR500	594-5083NW150K0J	PPC150KW-2CT-ND	0.34	0.45	
R25	20K 5% 3 watt metal film resistor	Vishay BC	PR03000202002JAC00	594-5093NW20K00J	PPC20KW-3JCT-ND	0.48	0.53	
R26	1 Megohm 1% 1/4 watt metal film resistor	Generic		271-1.0M-RC	S1MCACT-ND	0.22	0.1	
R27	330 ohm 1% 1/4 watt metal film resistor	Generic		271-330-RC	S330CACT-ND	0.22	0.1	
R28	1K 1% 1/4 watt metal film resistor	Generic		271-1K-RC	1.00KXBK-ND	0.22	0.1	
R29	Wirewound 10 ohm 1% 1 watt resistor	Yageo	KNP100FR-73-10R	603-KNP100FR-73-10R	10ABCT-ND	0.55	0.56	
R30	150K 5% 2 watt metal film resistor	Vishay BC	PR02000201503JR500	594-5083NW150K0J	PPC150KW-2CT-ND	0.34	0.45	
R31	4.7K 5% 1/4W CARBON COMP resistor	Ohmite	OD472JE	588-OD472JE	OD472JE-ND	0.76	0.84	
R32	4.7K 5% 1/4W CARBON COMP resistor	Ohmite	OD472JE	588-OD472JE	OD472JE-ND	0.76	0.84	
R33	100 ohm 1% 1/4 watt metal film resistor	Generic		271-100-RC	100XBK-ND	0.22	0.1	
R34	100 ohm 1% 1/4 watt metal film resistor	Generic		271-100-RC	100XBK-ND	0.22	0.1	
R35	NO LONGER USED, deleted from board							
R36	10 K ohm 6.5 W resistor	Dale	CW00510K00JE73	71-CW00510K00JE73	CWD-10KRCT-ND	0.73	1.39	
R37	1K 1% 1/4 watt metal film resistor	Generic		271-1K-RC	1.00KXBK-ND	0.22	0.1	
R38	NO LONGER USED, deleted from board							
R39	1K 1% 1/4 watt metal film resistor	Generic		271-1K-RC	1.00KXBK-ND	0.22	0.1	
V1	9 pin miniature PCB socket			P-ST9-217X	P-ST9-222	1.95	2.19	
V2	9 pin miniature PCB socket			P-ST9-217X	P-ST9-222	1.95	2.19	
V3	4 pin (2A3 size) socket			P-ST4-194		3.13		
V4	4 pin (2A3 size) socket			P-ST4-194		3.13		
V5	8 pin octal PCB socket			P-ST8-193X		2.44		
HS 1	Avid 590102B Heat Sink	Avid	590102B	532-590102B36G	HS370-ND	1.44	1.35	SEE NOTE #3
HS 2	Avid 6021BG Heat Sink	Avid	6021BG	532-6021BG	6021BG-ND	1.1	1.07	SEE NOTE #4
HS 3	Avid 6021BG Heat Sink	Avid	6021BG	532-6021BG	6021BG-ND	1.1	1.07	SEE NOTE #5
HS 4	Avid 6021BG Heat Sink	Avid	6021BG	532-6021BG	6021BG-ND	1.1	1.07	SEE NOTE #5
HS 5	Avid 6021BG Heat Sink	Avid	6021BG	532-6021BG	6021BG-ND	1.1	1.07	
HS 6	Avid 6021BG Heat Sink	Avid	6021BG	532-6021BG	6021BG-ND	1.1	1.07	
						83.95	76.38	