

SymAsym Bill Of Materials	AAK's PCB +/- 50V Rails							
PCB #	Type	Value	Rating	Part #	Manufactur	Price	Distrubuter	Quantity
Resistors								
R1,R3	Metal Film	10	0.25 watts	71-RN60D-F-10	Vishay	0.21	Mouser	2
R4	Metal Film	10	3.0 watts	594-5093NW10R00J	Vishay	0.54	Mouser	1
R5,R6	Metal Film	681	0.25 watts	71-RN60D-F-681	Vishay	0.21	Mouser	2
R8,R9	Metal Film	100	0.25 watts	71-RN60D-F-100	Vishay	0.21	Mouser	2
R10	Metal Film	68.1	0.5 watts	660-MF1/2CL68R1F	KOA	0.21	Mouser	1
R11	Metal Film	221	0.25 watts	71-RN60D-F-221	Vishay	0.32	Mouser	1
R12,R14	Metal Film	22.1K	0.25 watts	71-RN60D-F-22.1K	Vishay	0.21	Mouser	2
R13	Metal Film	2.0K	0.25 watts	71-RN60D-F-2.0K	Vishay	0.21	Mouser	1
R15,R17	Metal Film	150	0.25 watts	71-RN60D-F-150	Vishay	0.21	Mouser	2
R18,R20	Metal Film	47.5K	0.25 watts	71-RN60D-F-47.5K	Vishay	0.21	Mouser	2
R22	Multi Turn	100		652-3296W-1-101	Bourns	2.20	Mouser	1
R23	Metal Film	1.0K	0.25watts	71-RN60D-F-1.0K	Vishay	0.21	Mouser	1
R24	Metal Film	316	0.25watts	71-RN60D-F-316	Vishay	0.21	Mouser	1
R26	Metal Film	150	0.25 watts	71-RN60D-F-150	Vishay	0.21	Mouser	1
R27,R28	Wirewound	0.2	3.0 watts	71-LVR3-0.2	Vishay	0.97	Mouser	2
R29	Metal Film	22.1K	0.25 watts	71-RN60D-F-22.1K	Vishay	0.21	Mouser	1
R30	Metal Film	499	0.25 watts	71-RN60D-F-499	Vishay	0.21	Mouser	1
R31,R32	Metal Film	22.1	0.25 watts	71-RN60D-F-22.1	Vishay	0.21	Mouser	2
R33,R34	Metal Film	10.0K	2.0 watts	594-5083NW10K00J	Vishay	0.32	Mouser	2
R35,R36	Metal Film	1.0	1.0 watts	594-5073NW1R000J	Vishay	0.16	Mouser	2
R38,R37	Wirewound	0.2	3.0 watts	71-LVR3-0.2	Vishay	0.97	Mouser	2
Capacitors								
C1	Poly/Film	4.7uF	50V	505-MKS2-4.7/50/10	WIMA	4.97	Mouser	1
C2,C7	Mica	100pF	300V	5982-5-300V100	Cornell	1.65	Mouser	2
C3,C4	Mica	330pF	500V	5982-10-500V330	Cornell	2.26	Mouser	2
C5,C6	Poly/Film	0.1uF	63V	MKS2-.1/63/10	WIMA	0.23	Mouser	2
C8,C9	Electrolytic	220uF	100V		Nichicon/KZ	1.6	HandMade Ele	2
C10,C11	Poly/Film	0.1uF	63V	MKS2-.1/63/10	WIMA	0.23	Mouser	2
C14	Mica	10pF	300V	5982-5-300V10	Cornell	0.81	Mouser	1
C19	Electrolytic	470uF	25V	647-UPW1E471MPD	Nichicon	0.68	Mouser	1
C20	Poly/Film	0.1uF	63V	MKS2-.1/63/10	WIMA	0.23	Mouser	1
C21,C22	Poly/Film	0.1uF	63V	MKS2-.1/63/10	WIMA	0.23	Mouser	2
C23,C24	Electrolytic	0.1uF	250V	505-M10.1/250/10	WIMA	0.81	Mouser	2
C25-C28	Electrolytic	4700uF	63V	P7485	Panasonic	5.84	Digikey	4
Diodes								

D1,D2	Diode/TO-220		15A/600V	HFA15TB60	IRF	4.50	Digikey	2
D3,D4	Diode/TO-220		15A/600V	HFA15TB60	IRF	4.50	Digikey	2
Transistors								
Q1,Q2	BJT	NPN	160V/0.6A	2N5551RLRAOSCT	On Semi	0.19	Digikey	2
Q3,Q9	BJT	NPN	160V/0.6A	2N5551RLRAOSCT	On Semi	0.19	Digikey	2
Q4,Q5,Q12	BJT	PNP	160V/0.6A	2N5401RLRAOSCT	On Semi	0.194	Digikey	3
Q7,Q8	BJT	NPN	65V/0.1A	BC546BGOS	On Semi	0.28	Digikey	2
T1	BJT	NPN	80V/1.5A	BD139OS	On Semi	0.71	Digikey	1
U3	BJT	NPN	230V/15A	2SC5200-OQ	Toshiba	2.25	Digikey	1
U4	BJT	PNP	230V/15A	2SA1943-OQ	Toshiba	2.25	Digikey	1
U5	BJT	NPN	230V/1A	2SC4793Q	Toshiba	0.72	Digikey	1
U6	BJT	PNP	230V/1A	2SA1837	Toshiba	0.72	Digikey	1
Terminals								
T1-T5	Terminal	Male		1213K	Keystone	0.09	Digikey	5
TB1	Terminal Block	2 Pos	Plug	277-1236	Phoenix	0.78	Digikey	1
Fuse Clips								
FC1-FC4		PCB		F063	Littelfuse	0.27	Digikey	4
Fuses								
FC1-FC4		3A		F2682	Littelfuse	0.34	Digikey	2
FC1-FC4		5A		F2684	Littelfuse	0.31	Digikey	2
Heat Sink								
HS1-HS2	For Drivers	U5/U6		HS212	Aavid	0.62	Digikey	2