

SymAsym Plus Bill Of Materials		AAK's Board		2SK170 Input		DTV			
PCB #	Type	Value	Rating	Part #	Manufacturer	Price	Distributer	Quantity	
Resistors									
R1,R2	Metal Film	12K	0.25 watts	660-CF1/2C123J	KOA	0.19	Mouser	4	
R3,R4	Metal Film	1	1.0 watts	594-5073NW1R000J	Vishay	0.16	Mouser	4	
R5,R6	Metal Film	4.7K	2.0 watts	283-4.7K-RC	Xicon	0.19	Mouser	4	
R7	Metal Film	10	3.0 watts	71-CW2B-10	Vishay	0.54	Mouser	2	
R8,R9,R42,R43	Metal Film	0.2	3.0 watts	71-LVR3-0.20	Vishay	0.76	Mouser	8	
R10,R11	Metal Film	22.1	0.25 watts	71-RN60D-F-22.1	Vishay	0.09	Mouser	4	
R12,R13,R41,R42	Metal Film	10	0.25 watts	71-RN60D-F-10	Vishay	0.09	Mouser	8	
R14,15	Metal Film	100	0.25 watts	71-RN60D-F-100	Vishay	0.09	Mouser	4	
R16	Metal Film	150	0.25 watts	71-RN60D-F-150	Vishay	0.09	Mouser	2	
R17,R18	Metal Film	150	0.25 watts	71-RN60D-F-150	Vishay	0.09	Mouser	4	
R19	Metal Film	261	0.25 watts	71-RN60D-F-261	Vishay	0.09	Mouser	2	
R20,R21,R22,R32	Metal Film	10K	0.25 watts	71-RN60D-F-10K	Vishay	0.09	Mouser	8	
R23,R24	Metal Film	681	0.25watts	71-RN60D-F-681	Vishay	0.09	Mouser	4	
R25,R26	Metal Film	22.1K	0.25watts	71-RN60D-F-22.1K	Vishay	0.09	Mouser	4	
R27	Metal Film	2.0K	0.25watts	71-RN60D-F-2.0K	Vishay	0.09	Mouser	2	
R28	Metal Film	499	0.25 watts	71-RN60D-F-499	Vishay	0.09	Mouser	2	
R29,R30,R31	Metal Film	1.0K	0.25 watts	71-RN60D-F-1.0K	Vishay	0.09	Mouser	6	
R33	Metal Film	68.1	0.5watts	660-MF1/2CL68R1F	KOA	0.56	Mouser	2	
R34	Metal Film	475	0.25 watts	71-RN60D-F-475	Vishay	0.09	Mouser	2	
R35	Metal Film	2.0k	0.25 watts	71-RN60D-F-2.0K	Vishay	0.09	Mouser	2	
R36	Multi Turn	500	0.25 watts	652-3296W-1-501LF	Bourns	2.2	Mouser	2	
R37,R38	Metal Film	221	0.25 watts	71-RN60D-F-221	Vishay	0.09	Mouser	4	
R39	Metal Film	10	0.25 watts	71-RN60D-F-10	Vishay	0.09	Mouser	2	
Capacitors									
C1,C2,C9-C14,C26,C27	Poly/Film	0.1uF	63V	MKS2-.1/63/5	WIMA	0.25	Mouser	18	
C3,C4,C5,C6	Electrolytic	4700uF	63V	661-EKMH630VNN472MQ	United Chem	3.36	Mouser	8	
C7,C8	Poly/Film	0.1uF	250V	MKP10-.1/250/5	WIMA	0.84	Mouser	4	
C15,C16	Mica	100pF	500V	5982-10-500V100	Cornell	1.26	Mouser	4	
C17,C18	Mica	220pF	500V	5982-10-500V220	Cornell	1.78	Mouser	4	
C19	Mica	10pF	300V	5982-5-300V10	Cornell	0.91	Mouser	2	
C20,C21,C22,C23	Electrolytic	100uF	63V	647-UVZ1J101MPD	Nichicon	0.24	Mouser	8	
C24	Electrolytic	470uF	25V	647-UPW1E471MPD	Nichicon	0.47	Mouser	2	
C25	Poly/Film	4.7uF	50V	505-MKS2-4.7/50/10	WIMA	2.24	Mouser	2	

Diodes								
D1,D2,D3,D4	Diode		15A/200V	863-MUR1520G	On Semi	1	Mouser	8
D4,D5,D6,D7	Diode		1A/1000V	863-1N4007G	On Semi	0.1	Mouser	8
Zener Diodes								
ZD1,ZD2			15V/0.2A	78-1N5245B	Vishay	0.03	Mouser	4
ZD3			6.8V/0.2A	78-1N5235B	Vishay	0.03	Mouser	2
Transistors								
Q1,Q2	JFET	NPN	40V	757-2SK170BLF	Toshiba	0.8	Mouser	4
Q3-Q7,Q13,Q18	BJT	NPN	160V/0.6A	863-2N5551G	On Semi	0.17	Mouser	14
Q8-Q12,Q16,Q19	BJT	PNP	160V/0.6A	863-2N5401G	On Semi	0.1	Mouser	14
Q14	BJT	NPN	65V/0.1A	863-BC556BG	On Semi	0.18	Mouser	2
Q15	BJT	NPN	65V/0.1A	863-BC546BG	On Semi	0.14	Mouser	2
Q17	BJT	NPN	80V/1.5A	512-BD13916S	On Semi	0.3	Mouser	2
Q20	BJT	NPN	230V/1A	757-2SC4793	Toshiba	0.65	Mouser	2
Q21	BJT	PNP	230V/1A	757-2SA1837	Toshiba	0.45	Mouser	2
Q22,Q24	BJT	NPN	260V/15A	757-2SC5200-O(Q)	Toshiba	2.48	Mouser	4
Q23,Q25	BJT	PNP	230V/15A	757-2SA1943-O(Q)	Toshiba	2.48	Mouser	4
Leds								
L1(Red)				606-4300F1LC	Chicago	0.35	Mouser	2
L2(Yellow)				606-4300F7LC	Chicago	0.35	Mouser	2
L3,L4,L5(Green)				606-4300F5LC	Chicago	0.35	Mouser	6
Terminals								
T1,T2,T3,T4,T5	Terminal	Male/.205	0.032 Thick	534-1213	Keystone	0.14	Mouser	10
TB1	Terminal Block	2 Pos	Plug	651-1904383	Phoenix	0.76	Mouser	2
Fuse Clips								
FC1,FC2,FC3,FC4		PCB		534-3517	Keystone	0.14	Mouser	8

Fuses								
F1,F2	50V-0-50V rails	5A		576-0217005.HXP	Littlefuse	0.2	Mouser	4
Thermal Pads								
For Q20,Q21	TO-220	5 pack		526-NTETP0006	NTE	1.38	Mouser	1
For Q22,Q23,Q24,Q25	T03P	5 pack		526-TP0010	NTE	1.65	Mouser	2
Heat Sink	Drivers			532-577002B00	Aavid	0.25	Mouser	4
Faston Receptacles	0.205"			571-6409151	Pidg	0.32	Mouser	10
Power Transformer	35AC-0-35AC	250VA	Or greater	EMI Shielded				2