

SymAsym The Seq	Bill Of Materials	AAK's Boar	Rev_1.4	2SK170 Input	DTV			
PCB #	Type	Value	Rating	Part #	Manufacturer	Price	Distrubuter	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 Oxide	10K	3.0 watts	283-10K-RC	Xicon	0.19	Mouser	4
R7	Metal Oxide	10	2.0 watts	283-10-RC	Xicon	0.39	Mouser	2
R8,R9,R42,R43	Wirewound	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	0.23	Mouser	4
R12,R13,R40,R41	Metal Film	10	0.25 watts	71-RN60D-F-10	Vishay	0.12	Mouser	8
R14,R15	Metal Film	100	0.25 watts	71-RN60D-F-100	Vishay	0.12	Mouser	4
R16	Metal Film	150	0.25 watts	71-RN60D-F-150	Vishay	0.12	Mouser	2
R17,R18	Metal Film	150	0.25 watts	71-RN60D-F-150	Vishay	0.12	Mouser	4
R19	Metal Film	261	0.25 watts	71-RN60D-F-261	Vishay	0.42	Mouser	2
R22	Metal Film	18K	0.25 watts	71-RN60D-F-18K	Vishay	0.23	Mouser	2
R23,R24	Metal Film	681	0.25watts	71-RN60D-F-6823	Vishay	0.23	Mouser	4
R25,R26,R32	Metal Film	22.1K	0.25watts	71-RN60D-F-22.1K	Vishay	0.12	Mouser	4
R27,R35	Metal Film	2.0K	0.25watts	71-RN60D-F-2.0K	Vishay	0.12	Mouser	4
R28,R34	Metal Film	499	0.25 watts	71-RN60D-F-499	Vishay	0.12	Mouser	4
R29,R30,R31	Metal Film	1.0K	0.25 watts	71-RN60D-F-1.0K	Vishay	0.12	Mouser	6
R33	Metal Film	68.1	0.5watts	660-MF1/2CL68R1F	KOA	0.56	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	0.12	Mouser	4
R39	Metal Film	10	0.25 watts	71-RN60D-F-10	Vishay	0.12	Mouser	2
Capacitors								
C3,C4,C5,C6	Electrolytic	4700uF	63V	661-EKMH630VNN472MQ	United Chem	4.2	Mouser	8
C7,C8	Poly/Film	0.1uF	250V	505-M10.1/250/10	WIMA	0.81	Mouser	4
C10	Poly/Film	0.47uF	63V	505-MKS2.47/63/10	WIMA	0.55	Mouser	2
C1,C2,C9,C11,C12,C13	Poly/Film	0.1uF	63V	MKS2-.1/63/10	WIMA	0.23	Mouser	12
C15,C16	Mica	100pF	500V	5982-10-500V100	Cornell	1.88	Mouser	4
C17,C18	Mica	330pF	500V	5982-10-500V330	Cornell	2.54	Mouser	4
C19	Mica	10pF	300V	5982-5-300V10	Cornell	1.17	Mouser	2
C20 - C23,C26,C27	Electrolytic	100uF	63V	647-UVZ1J101MPD	Nichicon	0.25	Mouser	12
C24	Electrolytic	470uF	25V	647-UPW1E471MPD4890	Nichicon	0.47	Mouser	2
C25(Optional)	Poly/Film	4.7uF	50V	505-MKS2-4.7/50/10	WIMA	2.24	Mouser	2

Zener Diodes								
ZD1		Diode	100V/200ma	512-1N4148	Fairchild	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	0.46	Mouser	14
Q8-Q12,Q16,Q19	BJT	PNP	160V/0.6A	863-2N5401RLRAG	On Semi	0.46	Mouser	14
Q14	BJT	NPN	65V/0.1A	863-BC556BG	On Semi	0.19	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	PNP	230V/1A	757-2SA1837	Toshiba	0.5	Mouser	2
Q21	BJT	NPN	230V/1A	757-2SC4793	Toshiba	0.53	Mouser	2
Q22,Q24(optional)	BJT	NPN	250V/16A	863-MJL21194G	On Semi	4.86	Mouser	4
Q23,Q25(optional)	BJT	PNP	250V/16A	863-MJL21193G	On Semi	4.86	Mouser	4
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,L2,L3,L4(Green)				606-4300F5LC	Chicago	0.35	Mouser	8
Terminals								
T1,T2,T3,T11,T14	Terminal	Male/.205	Power/Gnd	534-1213	Keystone	0.14	Mouser	10
T4-T10,T12,T13(optional)	Terminal	Male/.205	Power/Gnd	534-1213	Keystone	0.14	Mouser	18
TB1	Terminal Block	2 Pos	Audio In	651-1904383	Phoenix	0.92	Mouser	2
Fuse Clips								
FC1,FC2,FC3,FC4		PCB		576-01000054H	Littlefuse	0.19	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

C6Te	Drivers			532-577002B00	Aavid	0.25	Mouser	4
Faston Receptacles	0.205"			571-6409151	Pidg	0.32	Mouser	10
Mounting Screws	M3	For Q22-25		534-29314	Keystone	0.19	Mouser	8
Stand Offs	3/8"	Nylon		561-K6.375	Eagle	0.2	Mouser	8
Power Transformer	35AC-0-35AC	250VA	Or greater	EMI Shielded				2