

Sym	Asym	The Seq	Bill Of Materials	AAK's Boar	Rev_1.4	2SK170 Input	DTV			
PCB #	Type	Value	Rating	Part #	Manufacturer	Price	Distrubuter	PCB_Q		
<b>Resistors</b>										
R1,R2	Metal Film	1	1.0 watts	594-5073NW1R000J	Vishay	0.16	Mouser	2		
R3,R4	Carbon	12K	0.5 watts	660-CF1/2C123J	KOA	0.32	Mouser	2		
R5,R6	Metal Oxide	10K	3.0 watts	283-10K-RC	Xicon	0.39	Mouser	2		
R7	Metal Oxide	10	2.0 watts	283-10-RC	Xicon	0.39	Mouser	1		
R8,R9,R42,R43	Wirewound	0.2	3.0 watts	71-LVR3-0.20	Vishay	0.76	Mouser	4		
R10,R11	Metal Film	22.1	0.25 watts	71-RN60D-F-22.1	Vishay	0.23	Mouser	2		
R12,R13,R40,R41	Metal Film	10	0.25 watts	71-RN60D-F-10	Vishay	0.12	Mouser	4		
R14,R15	Metal Film	100	0.25 watts	71-RN60D-F-100	Vishay	0.12	Mouser	2		
R16	Metal Film	150	0.25 watts	71-RN60D-F-150	Vishay	0.12	Mouser	1		
R17,R18	Metal Film	150	0.25 watts	71-RN60D-F-150	Vishay	0.12	Mouser	2		
R19	Metal Film	261	0.25 watts	71-RN60D-F-261	Vishay	0.42	Mouser	1		
R22	Metal Film	18K	0.25 watts	71-RN60D-F-18K	Vishay	0.23	Mouser	1		
R23,R24	Metal Film	681	0.25watts	71-RN60D-F-681	Vishay	0.23	Mouser	2		
R25,R26	Metal Film	22.1K	0.25watts	71-RN60D-F-22.1K	Vishay	0.12	Mouser	2		
R27,R35	Metal Film	2.0K	0.25watts	71-RN60D-F-2.0K	Vishay	0.12	Mouser	2		
R28,R34	Metal Film	499	0.25 watts	71-RN60D-F-499	Vishay	0.12	Mouser	2		
R29,R30,R31	Metal Film	1.0K	0.25 watts	71-RN60D-F-1.0K	Vishay	0.12	Mouser	3		
R32	Metal Film	10.0K	0.25 watts	71-RN60D-F-10K	Vishay	0.12	Mouser	1		
R33	Metal Film	68.1	0.5watts	660-MF1/2CL68R1F	KOA	0.56	Mouser	1		
R36	Multi Turn	500	0.25 watts	652-3296W-1-501LF	Bourns	2.2	Mouser	1		
R37,R38	Metal Film	221	0.25 watts	71-RN60D-F-221	Vishay	0.12	Mouser	2		
R39	Metal Film	10	0.25 watts	71-RN60D-F-10	Vishay	0.12	Mouser	1		
R44,R45(Optional)	Metal Film	47.5K	0.25 watts	71-RN60D-F-47.5K	Vishay	0.23	Mouser	2		
R46	Metal Film	10K	0.125 watts	71-RN55D-F-10K	Vishay	0.11	Mouser	1		
<b>Capacitors</b>										
C3,C4,C5,C6	Electrolytic	4700uF	63V	P7485	Panasonic	3.82	Digi	4		
C7,C8	Poly/Film	0.1uF	250V	505-M10.1/250/10	WIMA	0.81	Mouser	2		
C10	Poly/Film	0.15uF	63V	505-MKP20.15/100/5	WIMA	0.74	Mouser	1		
C1,C2,C9,C11,C12,C13	Poly/Film	0.1uF	63V	505-MKS2.1/63/5	WIMA	0.25	Mouser	6		
C15,C16	Mica	100pF	500V	5982-10-500V100	Cornell	1.91	Mouser	2		
C17,C18	Mica	330pF	500V	5982-10-500V330	Cornell	2.69	Mouser	2		
C19	Mica	10pF	300V	5982-5-300V10	Cornell	1.23	Mouser	1		
C20 - C23,C26,C27	Electrolytic	100uF	63V	647-UPS1J101MPD1TD	Nichicon	0.25	Mouser	6		

C24	Electrolytic	470uF	25V	647-UKW1E471MPD	Nichicon	0.47	Mouser	1
C25(Optional)	Poly/Film	4.7uF	50V	505-MKS2-4.7/50/10	WIMA	2.24	Mouser	0
<b>Diodes</b>								
ZD1	Rectifier	Diode	100V/200ma	512-1N4148	Fairchild	0.03	Mouser	1
D1,D2,D3,D4	Rectifier	Diode	600V/16A	863-MUR1520G	On Semi	1.11	Mouser	4
<b>Transistors</b>								
Q1,Q2	JFET	NPN	40V	757-2SK170BLF	Toshiba	0.8	Mouser	2
Q3-Q7,Q15,Q18	BJT	NPN	160V/0.6A	512-2N5551TA	Fairchild	0.06	Mouser	7
Q8-Q12,Q19	BJT	PNP	160V/0.6A	512-2N5401CTA	Fairchild	0.2	Mouser	6
Q14	BJT	PNP	45V/0.1A	512-BC560C	Fairchild	0.13	Mouser	1
Q16	BJT	NPN	45V/0.1A	512-BC550CTA	Fairchild	0.07	Mouser	1
Q17	BJT	NPN	80V/1.5A	512-BD13916S	On Semi	0.3	Mouser	1
Q20	BJT	PNP	230V/1A	757-2SA1837	Toshiba	0.5	Mouser	1
Q21	BJT	NPN	230V/1A	757-2SC4793	Toshiba	0.53	Mouser	1
Q22,Q24	BJT	NPN	260V/15A	757-2SC5200-O(Q)	Toshiba	1.98	Mouser	2
Q23,Q25	BJT	PNP	230V/15A	757-2SA1943-O(Q)	Toshiba	1.98	Mouser	2
<b>Leds</b>				512-BC550CTA				
L1(Red)				606-4300F1LC	Chicago	0.35	Mouser	1
L2(Yellow)				606-4300F7LC	Chicago	0.35	Mouser	1
L3-L6(Green)				606-4300F5LC	Chicago	0.35	Mouser	4
<b>Terminals</b>								
T1,T2,T3,T11,T14	Terminal	Male/.205	Power/Gnd	534-1213	Keystone	0.14	Mouser	5
TB1	Terminal Block	2 Pos	Audio In	651-1871526	Phoenix	1.06	Mouser	1
<b>Fuse Clips</b>								
FC1,FC2,FC3,FC4		PCB		576-01000054H	Littlefuse	0.19	Mouser	4
<b>Fuses</b>						e		
F1,F2	50V-0-50V rails	5A		576-0217005.HXP	Littlefuse	0.2	Mouser	2

<b>Thermal Pads</b>								
For Q20,Q21	TO-220	5/pack		<b>526-NTETP0006</b>	NTE	1.38	Mouser	1
For Q22,Q23,Q24,Q25	T03P	5/pack		526-TP0010	NTE	1.65	Mouser	1
<b>Heat Sink</b>	Drivers			<b>532-577002B00</b>	Aavid	0.25	Mouser	2
<b>Faston Receptacles</b>	0.205"			571-6409151	Pidg	0.21	Mouser	5
<b>Mounting Screws</b>	M3	For Q22-25		<b>534-29314</b>	Keystone	0.19	Mouser	4
<b>Stand Offs</b>	1/2"	Nylon		561-K6.50	Eagle	0.23	Mouser	4