

PASS LABS - Aleph Ono

Bill of Materials

(For the PCB's made by BF van der Weerdt)

<i>PSU Board</i>				
Reference	Qty	Description	Value / Type	Mftr / Type Suggestion
Semiconductors				
T1	1	N-Channel Mosfet	IRF610	International Rectifier
T3	1	P-Channel Mosfet	IRF9610	International Rectifier
D3,D4,D1,D2	4	Diode	1N4004	
D11,D12,D5,D6,D7,D8,D9,D10	8	Zener Diode	9.1V	
Capacitors				
C13,C14,C5,C6	4	Electrolitic Capacitor	4700uF	Rubycon US Series 50V
C15,C16,C7,C17,C8,C9	6	Electrolitic Capacitor	2200uF	Panasonic FC Series 50V
C18,C19,C21,C10,C22,C11	6	Electrolitic Capacitor	1000uF	Rubycon ZL Series 35V
C9,C17	2	Electrolitic Capacitor	1000uF	Panasonic FC Series 50V
C12,C20	2	Capacitor	10uF	Vishay CTS13 Series 40V
C2,C3,C4,C1	4	Capacitor	10nF	Wima MKS4 Series 100V
Resistors				
R1,R5	2	Resistor	5Ω1 / 2W	
R3,R7	2	Resistor	221Ω	
R2,R6	2	Resistor	2k2	
Miscellaneous				
J1	1	Wire Connector	4 way, 5mm grid	
J2,J3,J4,J5	4	Soldering Pin		

<i>Main Board</i>				
Reference	Qty	Description	Value / Type	Mftr / Type Suggestion
Semiconductors				
D5,D?	1	Led	Red or Yellow	
Q15,Q10,Q11,Q12,Q13	5	N-Channel JFET	2SK170	
Q16,Q17,Q1,Q2,Q14	5	NPN Transistor	2SC1844	
Q18,Q3,Q25	2	P-Channel Mosfet	IRF9610	International Rectifier
Q19,Q7,Q8,Q26	3	N-Channel Mosfet	IRF610	International Rectifier
Q20,Q21,Q22	3	P-Channel Mosfet	IRFD9110	
Q4,Q24	2	NPN Transistor	ZTX450	
Q5	1	Dual JFET	2SK389	
Q6	1	PNP Transistor	2SA991	
D11,D10	2	Diode	1N4001 / 1N4148	
R56	1	Zener Diode	9.1V	

Capacitors				
C35A,C34A,C35B,C34B	4	Electrolitic Capacitor	1500uF	Rubycon ZL Series 35V
C20A,C12D,C12,C20B,C20C,C20D,C12A,C20,C12B,C12C	10	Electrolitic Capacitor	1000uF	Rubycon ZL Series 35V
C37,C27,C19,C40,C41,C1	6	Electrolitic Capacitor	220uF	Rubycon ZA Series 35V
C28	1	Electrolitic Capacitor	4.7uF	Rubycon ZA Series 35V
C38,C7,C9,C10	4	Capacitor	10uF	Epcos B32524 Series 100V
C2,C19B,C37B	2	Capacitor	.047uF	BC Comp. 460 Series 63V
C6	1	Capacitor	.033uF	LCR FSC/EX Series
C4,C8	2	Capacitor	.01uF	LCR FSC/EX Series
C5	1	Capacitor	.0027uF	LCR FSC/EX Series
C39	1	Capacitor	.001uF	LCR FSC/EX Series
C?	1	Capacitor	680pF	LCR FSC/EX Series
C15,C16	2	Capacitor	330pF	LCR FSC/EX Series
C14	1	Capacitor	220pF	LCR FSC/EX Series
C13,C29	2	Capacitor	100pF	LCR FSC/EX Series
C3	1	Capacitor	100pF	LCR FSC Series
C11	1	Capacitor	10pF	LCR FSC Series
CX	1	Capacitor	No Value	
Resistor				
R2,R70	2	Resistor	5Ω1 / 2W	
R39	1	Resistor	10Ω	
R47,R48,R45,R46	4	Resistor	22Ω	
R27,R28	2	Resistor	33Ω	
R64,R65	2	Resistor	47Ω	
R50	1	Resistor	56Ω	
R36,R7,R21	3	Resistor	100Ω	
R29,R82,R53	3	Resistor	150Ω	
R69,R61+,R1,R26,R60,R61,R52,R12+,R54,R22,R55,R12,R57,R24	14	Resistor	221Ω	
R35	1	Resistor	249Ω	
R13	1	Resistor	332Ω	
R59,R34,R67	3	Resistor	475Ω	
R40,R66	2	Resistor	499Ω	
R33	1	Resistor	825Ω	
R80,R81,R32,R79	4	Resistor	1k	
R75,R78	2	Resistor	1k5	
R25	1	Resistor	2k21	
R42	1	Resistor	3k3	
R74	1	Resistor	3k32	
R4,R41	2	Resistor	4k02	
R51,R11,R68	3	Resistor	4k75	
R5	1	Resistor	6k8	
R8	1	Resistor	7k32	
R3	1	Resistor	8k2	
R16,R17,R18,R6,R76	5	Resistor	10k	
R62,R63,R23	3	Resistor	22k	
R38	1	Resistor	24W9	
R31,R20	2	Resistor	47k	
R37	1	Resistor	47W5	

R9	1	Resistor	88k7	
R14,R15,R49	3	Resistor	100k	
R77	1	Resistor	750k	
RX	1	Resistor	No Value	
R25P	1	Potentiometer	5k	
Miscellaneous				
REL1	1	Relay	Omron G6A-234P	
SW1,SW2	2	Dipswitch	8 way	
J4A,J3A,J4B,J2A,J3B,J4 C,J1A,J2B,J1B,PC1,PC2, PC3,PC4	13	Solder Pin		
JP1,JP2,JP3,JP4,JP5	5	Jumper		