

V1.1 CONTROL BOARD BILL OF MATERIAL FOR K3NG's ATU

DRAFTED 300418

Part Type	Designator	Footprint	Description	NOTES
0R for parallel lcd	R2	1206-0805		PARALLEL LCD REQUIRES sketch changes.
0R for parallelLCD	R1	1206-0805		PARALLEL LCD REQUIRES sketch changes.
100nF	C18	0805	RESISTOR SMD	
100nF	C17	0805	RESISTOR SMD	
100nF	Cx	0805	Capacitor	
100nF	C12	0805	Capacitor	
100nF	C24	0805	Capacitor	
100nF	C11	0805	Capacitor	
100nF	C56	0805	Capacitor	
100nF	C19	0805	Capacitor	
100nF	C46	0805	Capacitor	
100nF	CLCD1	0805	Capacitor	
100nF	C999	0805	Capacitor	
100R ?	Rx	AXIAL0.5	RESISTOR SMD	only for parallel lcd (see above)
100uF/16V	C20	RB 2/4	polarized cap	
10K	R111	1206-0805	RESISTOR SMD	
10K	R110	1206-0805	RESISTOR SMD	
10K	R14	1206-0805	RESISTOR SMD	
10K	R17	1206-0805	RESISTOR SMD	
10K	RV1	3306P-F	trim pot	
10K	R16	1206-0805	RESISTOR SMD	
10K	R15	1206-0805	RESISTOR SMD	
10K NOTE 3	R3	1206-0805	RESISTOR SMD	see schematic note 3
10K NOTE 3	R4	1206-0805	RESISTOR SMD	see schematic note 3
10nF	C32	0805	Capacitor	
10nF	C21	0805	Capacitor	
10nF	C14	0805	Capacitor	
10nF	C13	0805	Capacitor	
10uF/10V	C25	CCASE	polarized cap	
1K	R102	1206-0805		
1K	R29	1206-0805		
1K	R28	1206-0805		
1K	R27	1206-0805		
1K	R32	1206-0805		
1K	R31	1206-0805		
1K	R30	1206-0805		
1K	R12	1206-0805		
1K	R11	1206-0805		
1K	R18	1206-0805		
1K	R19	1206-0805		
1K	R37	1206-0805		
1K	R34	1206-0805		
1K	R33	1206-0805		
1K	R36	1206-0805		
1K	R35	1206-0805		
1K	R26	1206-0805		
1K	R22	1206-0805		
1K	R21	1206-0805		
1K	R20	1206-0805		
1K	R25	1206-0805		
1K	R24	1206-0805		
1K	R23	1206-0805		
1N4004	D9	AXIAL0.5	DIODE AXIAL, BENDS LEADS TO DIMENSION SHOWN	
1N4148	D13	AXIAL0.4	DIODE AXIAL, BENDS LEADS TO DIMENSION SHOWN	
1N4148	D12	AXIAL0.4	DIODE AXIAL, BENDS LEADS TO DIMENSION SHOWN	
1N4148	D10	AXIAL0.4	DIODE AXIAL, BENDS LEADS TO DIMENSION SHOWN	
1N4148	D11	AXIAL0.4	DIODE AXIAL, BENDS LEADS TO DIMENSION SHOWN	
2 PIN HEADER LOCKING	JPWR1	SIP2		
2K2	R8	1206-0805	RESISTOR SMD	
2K2	R7	1206-0805	RESISTOR SMD	
2N3904	Q4	SOT23-CBE		
2N3904	Q5	SOT23-CBE		
2N7000	Q3	SOT-23 2N7000		
2N7000	Q2	SOT-23 2N7000		
2T on bead	L22	1206	Inductor	2T ON FERRITE BEAD OF SMD BEAD
470R	R101	1206-0805		
74HC74	U4	SOIC-14		
78M05 (SMD)	U5	DPAK-3		
Arduino "NANO"	NANO1	DIP30		
HEADER 2X5	J1A		HEADER 2 ROWS X 5 0.1" PICH	
HEADER 2X5	J3A		HEADER 2 ROWS X 5 0.1" PICH	
HEADER LOCKING 4 PIN	JSW1	SIP4		
LCD 1rowx16 HEADER	LCD1	SIP16		
LED	LED1	LED3		LED's ARE OPTIONAL
LED	LED2	LED3		LED's ARE OPTIONAL
LED	LED3	LED3		LED's ARE OPTIONAL
LED	LED13	LED3		LED's ARE OPTIONAL

LED	LED14	LED3		LED's ARE OPTIONAL
LED	LED11	LED3		LED's ARE OPTIONAL
LED	LED12	LED3		LED's ARE OPTIONAL
LED	LED17	LED3		LED's ARE OPTIONAL
LED	LED18	LED3		LED's ARE OPTIONAL
LED	LED15	LED3		LED's ARE OPTIONAL
LED	LED16	LED3		LED's ARE OPTIONAL
LED	LED6	LED3		LED's ARE OPTIONAL
LED	LED7	LED3		LED's ARE OPTIONAL
LED	LED4	LED3		LED's ARE OPTIONAL
LED	LED5	LED3		LED's ARE OPTIONAL
LED	LED8	LED3		LED's ARE OPTIONAL
LED	LED10	LED3		LED's ARE OPTIONAL
LED	LED9	LED3		LED's ARE OPTIONAL
LED BLUE	LED20	LED3		LED's ARE OPTIONAL
LED GREEN	LED19	LED3		LED's ARE OPTIONAL
LM358	U3	SOIC-8		
MCP23008	U6	SOIC-18		
MCP23008	U1	SOIC-18		
ULN2803	U7	DIP18	HIGH-VOLTAGE,HIGH-CURRENT DARLINTON ARRAYS	
ULN2803	U2	DIP18	HIGH-VOLTAGE,HIGH-CURRENT DARLINTON ARRAYS	
PCB	V1.1			