

UHU SERVO CONTROLLER REV4  
 UHU BASED SERVO CONTROLLER Revised: Wednesday, November 18, 2009  
 Revision: D

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Item	Quantity	Reference	Part	Footprint
1	2	C4,C7	220uf	=> RC100\200+
2	11	C5,C6,C21,C24,C28,C29, C30,C31,C32,C33,C34	.1uf	=> AC100\125
3	5	C8,C9,C10,C11,C12	1uf	=> RC100\200+
4	2	C13,C14	27pf	=> AC100\125
5	1	C15	10uf	=> RC100\200+
6	4	C16,C17,C18,C19	.001UF	=> AC100\125
7	2	C22,C23	.22UF	=> AC100\125
8	1	C25	.1UF	=> AC200\125
9	2	C26,C27	1000UF	=> CYL/D.725/LS.300/.040
10	9	D4,D5,D7,D9,D11,D14,D15, D16,D21	1N4007	=> H_DIODE
11	4	D6,D8,D10,D12	DIODE ZENER1	=> H_DIODE
12	4	D13,D17,D18,D19	LED	=> LED
13	1	D20	1N914	=> H_DIODE
14	4	D22,D23,D24,D25	BYV27/20	=> H_DIODE LARGE
15	2	JP5,JP9	HEADER 2	=> 5_08_T_BLOCK2
16	2	JP6,JP8	HEADER 2	=> 3_81_T_BLOCK2
17	1	JP11	HEADER 5X2	=> J\10P
18	1	JP12	HEADER 10	=> 3_81_T_BLOCK10
19	1	JP13	HEADER 3	=> MOLEX\3P\100
20	2	J4,J5	CON2	=> SOLDER
21	1	J6	CON2	=> SOLDER_REV2
22	1	J7	CON1	=> SIP\1P
23	4	Q2,Q3,Q4,Q5	MOSFET N	=> TO220FET GDS
24	2	R1,R21	1K, 1/4w	=> AC100\100
25	2	R2,R3	4.7K, 1/4w	=> AC100\100
26	4	R4,R6,R8,R10	22, 1/4w	=> AC100\100
27	4	R5,R7,R9,R11	270, 1/4w	=> AC100\100
28	4	R13,R15,R16,R27	10K, 1/4w	=> AC100\100
29	3	R14,R23,R24	470, 1/4w	=> AC100\100
30	5	R17,R28,R29,R30,R31	.1, 5w	=> CURRENT SHUNT
31	1	R18	100, 1/4w	=> AC100\100
32	3	R19,R33,R34	1.2K, 1/4w	=> AC100\100
33	1	R20	3.3K, 1/4w	=> AC100\100
34	1	R22	5K POT	=> TRIMPOT
35	1	R25	560, 1/4w	=> AC100\100
36	1	R26	22K, 1/4w	=> AC100\100
37	1	R32	1.8K, 2w	=> AC450\220
38	1	U1	AT90S2313	=> DIP20

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39	1	U6	HCPL2231 => DIP8
40	1	U8	MAX232 => DIP16
41	1	U9	DS1233 => TO-92A
42	1	U10	TL082 => DIP8
43	1	U11	74HC14 => DIP14
44	1	U12	4013 => DIP14
45	2	U13,U14	IR2184 => DIP8
46	1	U15	LM7805 => TO220AB
47	1	Y1	24Mhz => CRYSTAL