

RHOCOCO rev 1.8 BOM

Id	Designator	Designation	Package	Quantity	Number to order	Farnell bestel code	Farnell stuksprijs	minimum aantal	RS bestel code	RS Stuksprijs	Mouser bestelcode	Mouser prijs	prijs voor benodigd aantal
1	<i>Resistors</i>												
2	R14	MF25 10R	Weerstand axiaal D1.6mm Pitch 3/10" 1%	1	10	9341145	€ 0.0336	10					€ 0.3360
3	R1,R3,R5,R7,R8	MF25 240R	Weerstand axiaal D1.6mm Pitch 3/10" 1%	5	10	9341587	€ 0.0357	10					€ 0.3570
4	R12,R39	MF25 270R	Weerstand axiaal D1.6mm Pitch 3/10" 1%	2	10	9341633	€ 0.0336	10					€ 0.3360
5	R2,R4,R6	MF25 470R	Weerstand axiaal D1.6mm Pitch 3/10" 1%	3	10	9341943	€ 0.0357	10					€ 0.3570
6	R25,R26,R27,R28,R30,R31,R32,R33,R34,R35,R36,R37,R40	MF25 1K	Weerstand axiaal D1.6mm Pitch 3/10" 1%	13	20	9341102	€ 0.0357	10					€ 0.7140
7	R11,R10	MF25 4K7	Weerstand axiaal D1.6mm Pitch 3/10" 1%	2	10	9341951	€ 0.0336	10					€ 0.3360
8	R9,R13,R15,R16,R22,R23,R24,R29,R38	MF25 10K	Weerstand axiaal D1.6mm Pitch 3/10" 1%	9	10	9341110	€ 0.0344	10					€ 0.3440
9	R17,R18,R19,R20,R21	MF25 100K	Weerstand axiaal D1.6mm Pitch 3/10" 1%	5	10	9341129	€ 0.0357	10					€ 0.3570
10	RN2	4K7 x 6 SIP	R_Array SIP7 4607X-101-472LF	1	1	2787743	€ 0.765						€ 0.7650
11	<i>Capacitors</i>												
12	C6	4.7nF	C_Disc_D3.4mm_W2.1mm_P2.50mm	1	1	2860131	€ 0.070						€ 0.0697
13	C2	10nF	C_Disc_D3.4mm_W2.1mm_P2.50mm	1	1	2309024	€ 0.067						€ 0.0673
14	C1,C3,C4,C9,C10,C11,C12,C13	100nF	Ceramic capacitor Radial_3/10"	8	10	1692300	€ 0.187	10					€ 1.8700
15	C7	10uF 25V	Elco Radial Diameter 5.0mm pitch 2.50mm	1	1	9451153	€ 0.046						€ 0.0456
16	C5	100uF 16V	Elco Radial Diameter 6.3mm pitch 2.50mm	1	1	9451080	€ 0.068						€ 0.0677
17	C8	220uF 10V	Elco Radial Diameter 6.3mm pitch 2.50mm	1	1	1902883	€ 0.067						€ 0.0667
18	<i>Discrete passive semiconductors</i>												
19	D1,D2,D3,D4,D5,D6,D7,D8,D9	1N4148	Diode DO-35 3/10" Horizontaal	9	10	9843680	€ 0.060	5					€ 0.5970
20	D10	LED MCL034PD	LED 3.0mm RED round	1	5	1581112	€ 0.063	5					€ 0.3150
21	<i>Discrete active semiconductors</i>												€ 0.0000
22	Q1	2N3904	TO-92 Molded Narrow	1	5	1574370	€ 0.138	5					€ 0.6900
23	Q2	2N7000	TO-92 Molded Narrow	1	5	9845178	€ 0.247	5					€ 1.2350
24	<i>Integrated circuits</i>												
25	U1	P8X32A	DIP-40_W15.24mm_Socket	1	1				405-597	€ 6.88			€ 6.8800
26	U2	24LC256	DIP-8_W7.62mm	1	1	9757970	€ 0.723						€ 0.7230
27	U3	PCF8574A	DIP-16_W7.62mm	1	1	1703443	€ 1.190						€ 1.1900
28	U4	LM386	DIP-8_W7.62mm_Socket	1	1	2496437	€ 0.847						€ 0.8470
29	U5	MCP1700-3302E	TO-92 Inline_Narrow_Oval 3V3 regulator	1	1	1296588	€ 0.330						€ 0.3300
30	U6	Z80CPU	DIP-40_W15.24mm_Socket	1	1	1081891	€ 5.290						€ 5.2900
31	U7	74HCT574	DIP-20_W7.62mm_Socket	1	1	9592113	€ 0.605						€ 0.6050
32	U8	AS6C1008	DIP-32_W15.24mm_Socket	1	1	1562896	€ 2.730						€ 2.7300
33	U9	74HCT365	DIP-16_W7.62mm_Socket	1	1	1739589	€ 0.562						€ 0.5620
34	U10	74HCT670	DIP-16_W7.62mm	1	1					595-SN74LS670NE4		€ 1.36	€ 1.3600
35	<i>Connectors</i>									subtotal lc's		€ 20.52	
36	J1,J11,LS1	CONN_01X02	Pin_Header_Straight_1x02_Pitch2.54mm	3	50	1593411	€ 0.013	50					€ 0.6300
37	J2	VGA	VGA_connector DB-15 high density DE	1	1	2347728	€ 1.620						€ 1.6200
38	J3	USB_B	USB-B-S-RA	1	5	2112373	€ 0.441	5					€ 2.2050
39	J4	Audio-Jack-3	SPC21348	1	1	2579730	€ 1.890						€ 1.8900
40	J5	CONN_01X06	Pin_Header_Straight_1x06_Pitch2.54mm	1	50	1593415	€ 0.034	50					€ 1.7000
41	J6	SD_Card holder	SD-67600-006	1	1	2614945	€ 5.280						€ 5.2800

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42	J7	CONN_02X23	Pin_Header_Angled_2x23_Pitch2.54mm	1	1	2032893	€ 3.430					€ 3.4300
43	J8	CONN_01X06	Socket_Strip SS-106-T-2-N 1x06_Pitch2.54mm	1	10	1668205	€ 0.716	10				€ 7.1600
44	J9	CONN_01X08	Socket_Strip_Angled_1x08_Pitch2.54mm	1	10	1668207	€ 0.891	10				€ 8.9100
45	J10	DB9_MALE	dB09-MALE	1	1	1099289	€ 0.833					€ 0.8330
46	IC sockets									subtotal connectors	€ 33.66	
47	U2bis,U4bis	DIP-8 socket	Multicomp 2227MC-08-03-18-F1	2	1	1103844	€ 0.211					€ 0.2110
48	U3bis,U9bis,U10bis	DIP-16 socket	Multicomp 2227MC-16-03-09-F1	3	1	1103846	€ 0.432					€ 0.4320
49	U7bis	DIP-20 socket	Multicomp 2227MC-20-03-07-F1	1	1	1103848	€ 0.526					€ 0.5260
50	U8bis	DIP-32 Socket	Multicomp 2227MC-32-06-06-F1	1	1	1103853	€ 0.936					€ 0.9360
51	U1bis,U6bis	DIP-40 Socket	Multicomp 2227MC-40-06-05-F1	2	1	1103855	€ 1.050					€ 1.0500
52	Various									subtotal sockets	€ 3.16	
53	SW1	SW_SPDT	SWITCH-300SP1J1BLKM6QE	1	1					612-300SP1J1R EDM6QE	€ 2.94	€ 2.9400
54	Y1	5MHz	Crystal_HC49-U_Vertical	1	1	1652566	€ 0.677					€ 0.6770
55	LS1	Speaker	Speaker 8 Ohm	1	1	2783054	€ 1.180					€ 1.1800
56										subtotal motherboard	€ 71.05	

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Keyboard													
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57	PB1,PB2,PB3,PB4,PB5,PB6,PB7,PB8,PB9,PB10,PB11,PB12,PB13,PB14,PB15,PB16,PB17,PB18,PB19,PB20,PB21,PB22,PB23,PB24,PB25,PB26,PB27,PB28,PB29,PB30,PB31,PB32,PB33,PB34,PB35,PB36,PB37,PB38,PB39,PB40,PB41,PB42,PB43,PB44,PB45,PB46,PB47,PB48,PB49,PB50	Multicomp MCDTS-2 series MC32874 12x12mm switch 160gf	MC32874 - Tactile Switch, MCDTS-2 Series, Top Actuated, Through Hole, Plunger for Cap, 160 gf, 50mA at 12VDC	50	50	2543105	€ 0.480	5					€ 24.0000
58	Keycaps for PB1 to PB50	KTSC-21I	Switch Cap, Multicomp MCDTS2 Series Tactile Switches, Ivory, Caps for MCDTS2 Series	50	50	9561471	€ 0.114	50					€ 5.7000
59	J1 and J2 (15-way cable cut into two seperate parts)	FSN-23A-15	Ribbon Cable, Jumper Nomex Cable, Straight Pin, Straight Pin, 15 Ways, 3 ", 76.2 mm, 2.54 mm cut into a six and a -pin part	1	1	1310363	€ 3.060						€ 3.0600
60													
61										subtotal keyboard.			€ 32.76
62													
63										total everything			€ 103.81