

Bill Of Materials for Line Follower Robot Scheme

Design Title	Line Follower Robot Scheme
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Total Parts In Design	45

2 Motors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>PCB Package</u>	<u>Unit Cost</u>
2	M1,M2	6V	NULL	30,00 BYR
<i>Sub-totals:</i>				60,00 BYR

10 Resistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>PCB Package</u>	<u>Unit Cost</u>
4	R1,R3,R5,R6	750	1206_RES	0,03 BYR
1	R2	1M	1206_RES	0,03 BYR
1	R4	10k	1206_RES	0,05 BYR
4	RN1.1,RN1.2, RN1.3,RN1.4	10k	RESCAXS127P305X508X63-8	0,05 BYR
<i>Sub-totals:</i>				0,40 BYR

11 Capacitors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>PCB Package</u>	<u>Unit Cost</u>
1	C1	470uF/50V	CAP_ELEC_10MM	0,55 BYR
1	C2	0.33uF	1206_CAP	0,12 BYR
6	C3,C8,C9,C10, C11,C12	0.1uF	1206_CAP	0,08 BYR
1	C4	100uF/16V	CAP_ELEC_5MM	0,26 BYR
2	C6,C7	22pF	1206_CAP	0,05 BYR
<i>Sub-totals:</i>				1,51 BYR

1 Inductors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>PCB Package</u>	<u>Unit Cost</u>
1	L1	10uH	IND805	0,45 BYR
<i>Sub-totals:</i>				0,45 BYR

4 Integrated Circuits

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>PCB Package</u>	<u>Unit Cost</u>
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1	DA1	LM1084IT-5.0/NOPB	TO220	5,60 BYR
1	U1	ATMEGA328P	SPDIL28	6,70 BYR
2	U2 DD1.1,U2 DD1.2	SN75452B	DIL08	0,90 BYR
<i>Sub-totals:</i>				14,10 BYR

6 Transistors				
<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>PCB Package</u>	<u>Unit Cost</u>
4	Q1,Q2,Q3,Q4	STU407DH	TO252-4L	2,20 BYR
2	VT1,VT2	BUZ90	TO220	2,57 BYR
<i>Sub-totals:</i>				13,94 BYR

4 Diodes				
<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>PCB Package</u>	<u>Unit Cost</u>
4	D1,D2,D3,D4	LED	LEDC3224X270	0,05 BYR
<i>Sub-totals:</i>				0,20 BYR

7 Miscellaneous				
<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>PCB Package</u>	<u>Unit Cost</u>
1	ICSP	2x3_male	HEADER3X2_100_TH	0,26 BYR
1	J1	25631001RP2	CON10_1X10_U_2563	
1	J2	25630601RP2	CON6_1X6_U_2563	
2	JP1,JP2	1x3_male	CONN-SIL3	0,02 BYR
1	RESET	OFF-ON-OFF	NULL	0,16 BYR
1	Y1	CRYSTAL	XTAL18	0,45 BYR
<i>Sub-totals:</i>				0,91 BYR

Totals:				91,51 BYR
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