

Dual Axis Stepper Motor Controller Parts List

The following parts are needed to populate the controller board:

Designation	Value	Quantity	Distributor	Part Number	Price ea.
C1,C2	47uF/35V	2	Digikey	P6361-ND	0.43
C3-C7	0.1uF/50WV	5	Digikey	P4525-ND	0.17
R1-R12	4.7K/1/8W	12			
RN1-RN3	4.7K SIP	3	Digikey	Q9472-ND	0.42
D1-D2	3.9V/5W	2	Digikey	1N5335BMSCT-ND	1.41
U1,U2	74HC151	2	Digikey	MM74HC151N-ND	0.96
U3,U4	SAA1042	2	Newark	SAA1042	9.68
U5	74HC86	1	Digikey	MM74HC86N-ND	0.88
U6,U11	74HC02	1	Digikey	MM74HC02N-ND	0.73
U7-U10	74HCT160	4	Digikey	CD74HCT160E-ND	0.74
U12,U13	74HC74A	3	Digikey	MM74HC74AN-ND	0.88
U14	74HC4040	1	Digikey	MM74HC4040N-ND	1.56
U15	4 MHz OSC	1	Digikey	SE1203-ND	3.30
SW1,SW2	DIPSWITCH	2	Digikey	A5208-ND	1.50
Q1-Q4	2N2222	4	Newark	2N2222	0.30

The following parts are optional:

Designation	Value	Quantity	Distributor	Part Number	Price ea.
SW3	Thumbwheel	4	Digikey	CH175-ND	7.88
End Caps		1	Digikey	CH186-ND	1.08
SW4-SW7	Push Button	4	Digikey	CKN4000-ND	4.29
SW8	Rocker	1	Digikey	CKC2012-ND	3.45
CON1	D-sub female	1	Digikey	A2047-ND	1.45
CON2	D-sub male	1	Digikey	A2043-ND	1.39

Thanks goes to Ed de la Rie for creating this page.