

BOM list for DriverBoardForCNC Assembly

Designator	Description	Value	QTY.	Manufacturer	Manufacturer Part Number	Order Code Chip&Dip	Component Link
C1, C2, C3, C8	Polarized Capacitor (Radial) 16V, 105°C, 20% 6.3x5.4mm	100uF	4	JB	JCL1C101M063054	9000565735	None
C4, C5, C7, C10	Capacitor ceramic SMD	0.1uF	4	Murata	GRM319R71H104K	348319975	None
C6	Capacitor ceramic SMD	1nF	1	HOLYSTONECAPS	MLCC1000pFX7R50V10%0805	40582	None
C9	Capacitor ceramic SMD	0.33uF	1	Murata	GRM319R71H334KA01D	344025606	None
D1	1 Amp General Purpose Rectifier	1N4006	1	DC COMPONENTS CO., LTD.	1N4006	3519	None
IC1	5V Voltage Regulator	MC33269	1	ON Semiconductor	MC33269DT?5.0	563066499	None
MOT1, MOT2, MOT3	Header, 4-Pin	PLS-4	3	Connfly	DS1021-1*4SF11-B	174993133	None
P1	Header, 8-Pin, Dual row	PLD-16	1	Connfly	DS1021-2*8SF11-B	4114	None
P2	Header, 6-Pin, Dual row	PLD-12	1	Connfly	DS1021-2*6SF11-B	none	None
P3, P5, P6	Screw connector, 2-Pin	306-021-12	3	Ningbo Xinya M&E	XY306A-5.0-2P-12	43112	None
P4	Header, 3-Pin	PLD-3	1	Connfly	DS1021-1*3SF11-B	132511368	None
P7, P8	Header, 2-Pin	PLS-2	2	Connfly	DS1021-1*2SF11-B	260750144	None
Q1	NPN Bipolar Transistor	2N2222	1	ON Semiconductor	KSP2222ABU	363567003	None
Q2	N-Channel Power MOSFET	IRL540N	1	Infineon Technologies	IRL540NPBF	387859736	None
R1, R2, R3, R4, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R27, R29, R30	Rectangular Thick Film Chip Resistor	10k	18	Yageo	RC0805FR-0710KL	9000079514	None
R5, R6, R25, R32, R33, R34, R35	Rectangular Thick Film Chip Resistor	1k	7	Yageo	RC0805FR-071KL	9000079486	None
R18, R23	Rectangular Thick Film Chip Resistor	100k	2	Yageo	RC0805FR-07100KL	9000079538	None
R19, R24	Rectangular Thick Film Chip Resistor	470	2	Yageo	RC0805FR-07470RL, RC1206FR- 07470RL	9000079478, 9000079907	None
R20, R21	Rectangular Thick Film Chip Resistor	30k	2	Yageo	RC0805FR-0730KL	9000079525	None
R22, R26	Rectangular Thick Film Chip Resistor	100	2	Yageo	RC0805FR-07100RL	9000079462	None

R28	Rectangular Thick Film Chip Resistor	220	1	Yageo	RC0805FR-07220RL	9000079470	None
R31	Potentiometer	1k	1	Bourns	3296W-1-102LF	4464	None
U1, U2, U4	Stepper motor driver	LV7829	3	China	LV7829 Module	None	Aliexpress
U3	8-bit shift register with 3-state output register	SNx4HC595	1	TI	SN74HC595D	37776	None
U5	Hall-Effect-Based Linear Current Sensor +-5A	ACS712ELCTR-05B	1	Allegro	ACS712ELCTR-05B	9000043254	None
U6	FET Operational Amplifier	LM358M	1	TI	LM358M/NOPB	39253	None