

Comment	Description	Designator	Footprint	LibRef	Quantity
1X2 Pin Head		[NoValue], 12V	2X1 Males Header	1x2 Male Header	2
2x2 Shrouded RT Ang	Header, Male, 2x2, Pitch: 0.1" (2.54mm) THT	<-Torpedo, Step	HEADER, MALE, Shrouded, 4POS, 2MM, RT ANG,THT	Header, Male, 2x2 Conn, Shrouded, THT, 2MM RT ANG TIN	2
100µF	100µF 35V Aluminum Electrolytic Capacitors Radial, Can - SMD 1000 Hrs @ 105°C	C1	Radial_CAN_6 6mm	100uf, 35V, 20%, Alum, SMD	1
0.1uF, 50V, 10%, X7R, 0603	0.1µF ±20% Ceramic Capacitor X7R 0603 (1608 Metric)	C2, C5, C6	CAPC1608N(0 603")	0.1uF, 50V, 10%, X7R, 0603	3
1µF	1µF ±10% Ceramic Capacitor X5R 0805 (2012 Metric)	C3, C4, C7	CAPC2012N(0 805")	1uF 50V 0805 SMD, Ceramic	3
470µF	470µF 50V Aluminum Electrolytic Capacitors Radial, Can 5000 Hrs @ 105°C	C8	12.5mm Dia Radial THD	470uf, 50V, 20%, Alum, SMD	1
150µF	150µF 35V Aluminum Electrolytic Capacitors Radial, Can - SMD 160 mohm @ 100kHz 2000 Hrs @ 105°C	C9	6.3mm Dia Radial SMD	150uf, 35V, 20%, Alum, SMD	1
Header to plug into Arduino Board	1x6 Header x2 1x8 Header 1x5 Header Reduced Pin Version - Does not connect to all pin on the Arduino Pitch: 0.1" (2.54mm), Contact Length 0.394" (10.00mm) Through hole	CN1	Arduino Shield Reduced Pin	Arduino Shield Header Reduced Pin	1
Connector for A4988 Stepper Motor Driver	Header, Female, 2x8, Pitch: 0.1" (2.54mm),THT	CN2	A4988 Stepper Motor Driver Header	Connector for A4988 Stepper Motor Driver	1
JD 2A 600V	Junction Diode 2A 600V	D1, D2	DO-214AA	JD 2A 600V	2
TSSA5U50E3G CT-ND	Diode Schottky 50V 5A Surface Mount DO- 214AC (SMA)	D3	DO-214AC	TSSA5U50E3G CT-ND	1
2A	SMD Fuse, 2A, 63V,	F1	1206 SMD	SMD Fuse, 2A, 63V,	1
2x1 Term Block		J1	2X1 Terminal Blocks	2x1 Terminal Block	1
1x3 Male Jumper	1x3 Male Jumper	JP1	Header, Male, 1x3, Pitch: 0.1" (2.54mm),THT	1x3 Male Jumper	1
47µH	47µH Shielded Wirewound Inductor 3.8A 60 mOhm Max Nonstandard	L1	12mm SMD	47µH 3.8A Inductor	1
1k	1kR, 1%, 1/10W , 0603, SMD	R1, R2	RESC1608N(0 603")	1kR, 1%, 1/10W , 0603, SMD	2
2CH High Side Drive 8A 28V 12-Pin	2 Channel High Side Drive MOSFET controllable by logic signal 12-Pin Buck	U1	PowerSSO-12	2CH High Side Drive 8A 28V 12-Pin	1
12V 3A Buck DC-DC	Switching Regulator IC, Positive Fixed 12V 1 Output 3A TO-263-6, D*Pak (5 Leads + Tab), TO-263BA	U2	5-DDPAK	12V 3A Buck DC-DC	1