U1 — ESP32-DEVKIT-V1

5V0

Pin	Name		Name	Pin
30	VIN		VP	17
16	EN		VN	18
12	RX0		TX0	13
1	3V3		RX2	6
4	D2		TX2	7
5	D4		D23	15
8	D5		D22	14
22	D33		D25	23
20	D35		D26	24
26	D14		D27	25
3	D15		D32	21
9	D18		D13	28
10	D19		D12	27
11	D21		D34	19
29	GND		GND	2

GND

U2 — DRV8825

Pin	Name		Name	Pin
1	EN̄		VN	16
2	M0		A2	11
3	M1		B2	13
4	M2		A1	12
5	R̄S̄T̄		B1	14
6	S̄L̄P̄		VN_MOT	9
7	STEP		GND	10
8	DIR		GND_MOT	15

GND

D1 1N5824 5V0

J1 — 0022292041

4	4	11
2	2	13
3	3	12
1	1	14

J2 — KF301-2P

1 2

J3 — KF301-2P

| 1 | 1 |
| 2 | 2 |

D2 SS24

GND

PS1 — LM2596S-5.0

Pin	Name		Name	Pin
4	FB		VIN	1
2	OUT		ON/OFF	5
3	GND_1		GND_2	6

5V0

L1 330 nH

C1 680 pF

D4 1N5824

C2 680 pF

D3 SS24

GND

Line #	Name	Description	Designator	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
	680 pF	CAP CER 680PF 50V C0G/NPO 0603	C1, C2	2	Yageo	CC0603JRNPO9BN681	Volume Production	DigiKey	311-1425-1-ND	0,1	0,2
	1N5824	Schottky Diode	D1, D4	2							
	SS24	DIODE SCHOTTKY 40V 2A DO214AA	D2, D3	2				DigiKey	SS24FSCT-ND		
	0022292041	Connector	J1	1							
	KF301-2P	2 Pin Terminal Block 5mm Pitch	J2, J3	2							
	330 nH	FIXED IND 330NH 14A 5 MOHM SMD	L1	1	Bourns	SRP5030T-R33M	Volume Production	Digikey	SRP5030T-R33MCT-ND	1,09	1,09
	LM2596S-5.0		PS1	1							
	ESP32-DEVKIT-V1	Dual core, Wi-Fi: 2.4 GHz up to 150 Mbits/s,BLE (Bluetooth Low Energy) and legacy Bluetooth, 32 bits, Up to 240 MHz	U1	1							
	DRV8825	Stepper motor controler; IC: DRV8825; 1.5A; Uin mot: 8.2Ã·45V	U2	1							