

	A	B	C	D	E	F	G	H	I	J
1	Item	Quantity	Reference	Part / Value	Voltage / Watt / Ampere	Type / TECHNOLOGY informations	Tolerance	Package	Manufacturer	Manufacturer's ordering code / Orderable Part Number
2	1	4	C1,C16, C19,C23	100nF	10V	Ceramic Multilayer Capacitors X7R	10%	0603	ANY	ANY
3	2	1	C2	4.7uF 10V	10V	Ceramic Multilayer Capacitors X7R	20%	0805	TDK	C2012X7R1A475M125AC
4	3	3	C3,C5,C7	680pF 10V	10V	Ceramic Multilayer Capacitors C0G	5%	0603	ANY	ANY
5	4	3	C4,C6,C8	100pF/6.3V	6.3V	Ceramic Multilayer Capacitors X7R	10%	0603	ANY	ANY
6	5	1	C9	220nF, 16V	16V	Ceramic Multilayer Capacitors X7R	10%	0603	ANY	ANY
7	6	1	C10	10nF 10V	10V	Ceramic Multilayer Capacitors X7R	10%	0603	ANY	ANY
8	7	1	C18	10nF 10V	10V	Ceramic Multilayer Capacitors X7R	10%	0603	ANY	ANY
9	8	2	C11,C13	100nF	100V	Ceramic Multilayer Capacitors X7R	10%	0603	ANY	ANY
10	9	1	C12	10n 100V	100V	Ceramic Multilayer Capacitors X7R	10%	0603	ANY	ANY
11	10	1	C14	4.7nF	10V	Ceramic Multilayer Capacitors X7R	10%	0603	ANY	ANY
12	11	1	C15	100uF	63V	Aluminium Electrolytic Capacitor	0.2	SMD 10mm x 10.5mm	Nichicon	UUX1J101MNL1GS
13	12	1	C17	1nF	6.3V	Ceramic X7R	10%	0603	ANY	ANY
14	13	3	C20,C21,C22	10pF	10V	Ceramic Multilayer Capacitors C0G	5%	0603	ANY	ANY
15	14	1	D1	SMBD 7000	200mA	Signal Diode		SOT-23	Infineon	SMBD 7000
16	15	9	D2,D3,D4,D5, D6,D7,D8,D9, D10	BAT30KFILM	30V, 0.3A	ST SCHOTTKY DIODE		SOD-523	STMicroelectronics	BAT30KFILM
17	16	1	D11	RED		LED standard - SMD		SMD 0603	Lite-on	LTST-C193KRKT-5A
18	17	4	JP1,JP2, JP3,J9	JUMPER		2 WAYS STRIP LINE-MALE 2.54mm		TH 2.54mm pitch	any	
19	18	1	J1	Input connector		2 way 3.81mm PCB terminal block		TH 3.81 pitch	any	
20	19	1	J2	Motor Connector		3 way 3.81mm PCB terminal block		TH 3.81 pitch	any	
21	20	1	J3	Stripline m. 1x5		5 WAYS STRIP LINE-MALE 2.54mm		TH 2.54mm pitch	any	
22	21	3	J4,J8,J16	RING		TEST POINT 1 mm		TH	Vero Technologies	20-2137
23	22	3	J5,J6,J7	CON3		3 WAYS STRIP LINE-MALE 2.54mm		TH 2.54mm pitch	any	
24	23	2	CN7,CN10	ST_MORPHO_19x2		ELEVATED SOCKET MORPHO CONNECTOR 38 PIN (19x2)		TH 2.54mm pitch	Samtec	ESQ-119-24-T-D
25	24	2	CN6,CN9	CONN8		8 PIN ELEVATED SOCKET		TH 2.54mm pitch	Samtec	ESQ-108-24-T-S
26	25	1	CN5	CONN10		10 PIN ELEVATED SOCKET		TH 2.54mm pitch	Samtec	ESQ-110-24-T-S
27	26	1	CN8	CONN6		6 PIN ELEVATED SOCKET		TH 2.54mm pitch	Samtec	ESQ-106-24-T-S
28	27	13	R1,R4,R5,R6, R9,R10,R11, R12,R15,R16, R36,R37,R38	2.2 kOhm	0.1W	SMD RESISTOR	1%	0603	ANY	ANY
29	28	3	R2,R7,R13	680 Ohm	0.1W	SMD RESISTOR		0603	ANY	ANY
30	29	34	R3,R8,R14,R 46,R47,R48,R 49,R50,R51,R 52,R53,R54,R 55,R56,R57,R 58,R59,R60,R 63,R64,R65,R 66,R67,R70,R 72,R73,R77,R 78,R79,R80,R 81,R82,R84,R 85	0 Ohm	0.1W	SMD RESISTOR		0603	ANY	ANY
31	30	1	R17	169 kOhm	0.1W	SMD RESISTOR	1%	0603	Vishay	CRCW0603169KFKEA
32	31	1	R18	9.31 kOhm	0.1W	SMD RESISTOR	1%	0603	PANASONIC	ERJ3EKF9311V
33	32	1	R19	NTC 10kOhm		NTC Thermistor	1%		TDK	NTCG103JF103F
34	33	1	R20	4.7 kOhm	0.1W	SMD RESISTOR		0603	ANY	ANY
35	34	1	R21	33 kOhm	0.1W	SMD RESISTOR		0603	ANY	ANY
36	35	5	R22,R23,R27, R28,R29	10 kOhm	0.1W	SMD RESISTOR		0603	ANY	ANY
37	36	3	R39,R40,R41	10 kOhm	0.25W	SMD RESISTOR		0805	PANASONIC	ERJT06J103V
38	37	3	R24,R25,R26	39 kOhm	0.1W	SMD RESISTOR		0603	ANY	ANY
39	38	3	R30,R31,R32	1.8 kOhm	0.1W	SMD RESISTOR		0603	ANY	ANY
40	39	3	R33,R34,R35	4.7 kOhm	0.1W	SMD RESISTOR		0603	ANY	ANY

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41	40	1	R42	100 kOhm	1/2W	TRIMMER RESISTOR	10%		Bourns	3386P-1-104LF
42	41	3	R43,R44,R45	0.33 Ohm	1W	SHUNT RESISTOR	1%	2512	Panasonic	ERJ1TRQFR33U
43	42	3	R61,R68,R74	4.99 kOhm	0.1W	SMD RESISTOR		0603	ANY	ANY
44	43	3	R62,R69,R75	13 kOhm	0.1W	SMD RESISTOR		0603	ANY	ANY
45	44	2	R71,R76	0 N.M.	0.1W	SMD RESISTOR		0603	ANY	ANY
46	45	1	R83	510 Ohm	0.1W	SMD RESISTOR		0603	ANY	ANY
47	46	1	U10	TSV994IPT		Operational Amplifier		TSSOP	STMicroelectronics	TSV994IPT
48	47	1	U11	L6230PD		DMOS driver for three-phase brushless DC motor		PowerSO	STMicroelectronics	L6230PD
49	48	6	(*) Jumper			Female 2.54mm jumper				
50	49	1	X	SMBJ48A-TR		Transil™		SMB	STMicroelectronics	SMBJ48A-TR