Designator	Value	Comment PWM_CONTROL	Description Header 6-Pin	Footprint R6R-YH-A/I F)(SN)	Quantity 1
		PWM_CONTROL	Header, 6-Pin CL21B104KCFNNNE,	B6B-XH-A(LF)(SN)	1
C1, C38, C39, C40, C41	47nF	100V	MULTILAYER CERAMIC CAPACITORS MLCC - SMD/SMT 100NF 100V 0805 ROHS	0805 - Capacitor	5
C2, C4, C6	2200pF	10V	TDK (2012X7S2A105KT000 N, 1UF ±10% 100V X7S 0805 MULTILAYER (CERAMIC CAPACITORS MLCC - SMD/SMT ROHS	0805 - Capacitor	3
C3, C5, C21	1uF	100V	TDK C2012X7S2A105KT000 N, 1UF ±10% 100V X7S 0805 MULTILAYER CERAMIC CAPACITORS MLCC - SMD/SMT ROHS	0805 - Capacitor	3
C7, C13, C19, C22, C23, C24, C25, C28, C29, C30, C31, C33, C34, C35, C37, C44	0.1uF	100V	CL21B104KCFNNNE, MULTILAYER CERAMIC CAPACITORS MLCC - SMD/SMT 100NF 100V 0805 ROHS	0805 - Capacitor	16
C8, C9, C26	1000pF	10V	TDK C2012X7S2A105KT000 N, 1UF ±10% 100V X7S 0805 MULTILAYER CERAMIC CAPACITORS MLCC - SMD/SMT ROHS	0805 - Capacitor	3
C10, C14, C43	100uF	100V	100ZLH100MEFC10X20, Aluminum Electrolytic Capacitors Radial, Can 10000 Hrs @ 105°C, 100UF 20% 100V CL218104KCFNNNE, MULTILAYER CERAMIC CAPACITORS MLCC - SMD/SMT 100NF 100V 0805 ROHS	Electrolytic Cap, 0805 - Capacitor	3
C11, C12	2.2uF	10V	Nonpolarized Capacitor	0805 - Capacitor	2
C15, C42	10uF	100V	CL21B104KCFNNNE, MULTILAYER CERAMIC CAPACITORS MLCC - SMD/SMT 100NF 100V 0805 ROHS	0805 - Capacitor	2
C16	15uF	100V	EEU-EE2V150, Aluminum Electrolytic Capacitors Radial, Can 8000 Hrs @ 105°C, CAP ALUM 15UF 20% 350V RADIAL	Electrolytic Cap	1
C17, C18	28pF	100V	CL21B104KCFNNNE, MULTILAYER CERAMIC CAPACITORS MLCC - SMD/SMT 100NF 100V 0805 ROHS	0805 - Capacitor	2
C20	10nF	10V	C0805C103K8RAC7800. 10000pF ±10% 10V Ceramic Capacitor X7R 0805 (2012 Metric)	0805 - Capacitor	1
C27	4.7uF	100V	TDK C2012X7S2A105KT000 N, 1UF ±10% 100V X7S 0805 MULTILAYER CERAMIC CAPACITORS MLCC - SMD/SMT ROHS	1210 - Capacitor	1
D1		150080SS75000	SMD mono-color Chip LED, WL-SMCW, Super	0805_A	1
P1, P3, P6, P7, P8		M4x3mm	Red WP-THRBU REDCUBE THR internal through- hole thread, 10x10mm, M4x3mm, 8 pins, 85A	74650094	5
P2		CAN	Header, 4-Pin	b4b-xh	1
P4 P5		PROGRAMMING DM3D-SF	Header, 7-Pin CONN MICRO SD CARD	HDR1X7 FP-DM3D-SF-MFG	1
			PUSH-PULL N-Channel Power	TO254P1651X1067X47	
Q1, Q2, Q3, Q4, Q5, Q6 R1, R2, R4, R5, R6, R10, R14, R24, R25, R26, R31, R37	10k	NMOS-2 10k	MOSFET Resistor	0-3 0603 - Resistor	12
R3	330	330	Resistor	0603 - Resistor	1
R7, R15, R17, R19 R9, R34, R35, R36	500u 2.2k	500u 2.2k	Resistor Resistor	RESC6430X66N 0603 - Resistor	4
R11, R23	100	100 50k	Resistor	0603 - Resistor	2
R13, R30, R32, R33 R16	50k 120	500m	Resistor Resistor	0603 - Resistor 0603 - Resistor	1
R18, R27, R28, R29 R20, R21, R22	500m 56	500m 56	Resistor Resistor	0603 - Resistor 0603 - Resistor	4 3
RT1, RT2, RT3, RT4, RT5, RT6, RT7, RT8		10k	NTC Thermistor for Temperature Sensor, SMD 0603, 10kΩ	ERT-J1VG103JA	8
S1 U1		Switch - Push Button LIS3DHTR	Push Button Switch Accelerometer	6x6mm Switch LIS3DHTR	1
U2			Integrated Circuit	TJA1051T/3,118	1
U3 U4		STM32F405RGT6 TLV1117-33IDCYR	ST 64-pin Micro Linear Voltage Regulator IC 3.3V 800MA SOT223-4	STM32F405RG TLV1117	1
U5		DRV8323SRTAT	Multiphase Motor Driver Power MOSFET SPI 40- WQFN _6x6_	DRV8323SRTAT	1
U6		INA180	0V to 26V Current Sense Amplifier	INA180	1
U8		TMUX1208PWR	Integrated Circuit	SOP65P640X120-16N	1
U9		LM324AMX/NOPB	Gen Purp 4Ch Opamp 16MHz ±20ppm	LM324AMX/NOPB	1
Y1		ABM3-16.000MHZ-B2-T	Crystal 18pF 40 Ohms 2-SMD, No Lead	ABM3-16.000MHZ-B2-T	1