Designator	Value	Comment PWM_CONTROL	Description Header, 6-Pin	Footprint HDR1X6	Quantity 1
AC1		LIS3DHTR C1608X7S2A473K080A	Accelerometer CAP, CERM, 0.047 μF,	LIS3DHTR	
C1	0.047uF	B	100 V, +/- 10%, X7S, 0603	0603L	
C2	1µF	10V	C0805C104K8RACTU. 0.1µF ±10% 10V Ceramic Capacitor X7R 0805 (2012 Metric)	C0805	
C3, C8, C20, C21, C22, C23, C24	0.1uF		C0805C103X8RAC7800 .10000pF ±10% 10V Ceramic Capacitor X7R 0805 (2012 Metric) .C0809C104K8RACTU. 0.1µF ±10% 10V Ceramic Capacitor X7R 0805 (2012 Metric)	C0805	;
C4, C5, C6	1000pF		C0805C104K8RACTU. 0.1µF ±10% 10V Ceramic Capacitor X7R 0805 (2012 Metric)	C0805	3
C7	4.7uF		CL21B105KPFNNNE. 1µF±10% 10V Ceramic Capacitor X7R 0805 (2012 Metric)	C0805	1
C9, C19	1uF		C0805C104K8RACTU. Q.1µF ±10% 10V Ceramic Capacitor X7R 0805 (2012 Metric) , CL21B105KPFNNNE. 1µF ±10% 10V Ceramic Capacitor X7R 0805 (2012 Metric) Metric)	C0805	2
C10	10uF	100V Ceramic	Polarized Capacitor (Surface Mount)	CAPAE660X800N	1
C11, C12	2.2uF	10V	C0805C225K8RACAUT O. 2.2µF ±10% 10V Ceramic Capacitor X7R 0805 (2012 Metric)	C0805	2
C13	10uF	10V	C0805C104K8RACTU. 0.1µF ±10% 10V Ceramic Capacitor X7R 0805 (2012 Metric)	C0805	1
C14, C16	100uF	100V	Polarized Capacitor (Surface Mount)	CAPAE660X800N	2
C15, C25	0.1uF	100	C0805C104K8RACTU. 0.1µF ±10% 10V Ceramic Capacitor X7R 0805 (2012 Metric)	C0805	2
C17, C26, C33, C35	0.1μF	10V	C0805C104K8RACTU. 0.1µF ±10% 10V Ceramic Capacitor X7R 0805 (2012 Metric)	C0805	4
C18	10nF		C0805C103K8RAC7800 . 10000pF ±10% 10V Ceramic Capacitor X7R 0805 (2012 Metric)	C0805	1
C27, C28, C29	2200pF	GRM188R71C222KA01 D	10V, T/- 10/0, A/K,	0603L	3
C30, C31	28pF	50V	0603 CBR08C409B5GAC, CBR08C409B5GAC. 4pF±0.1pF50V Ceramic Capacitor COG, NPO 0805 (2012	C0805	2
C32, C34, C36, C37, C38, C39, C40, C42,	0.1uF	0603YC104JAT2A	Metric) CAP, CERM, 0.1 µF, 16	0603L	10
C43, C44 D1	Red	LTST-C170KRKT	V, +/- 5%, X7R, 0603 LED, Red, SMD	LED_LTST-C170	1
IC1 P1		TMUX1208PWR 74650094R x2	Integrated Circuit Header, 2-Pin	SOP65P640X120-16N HDR1X2	1
P2 P3		CAN 74650094R x3	Header, 4-Pin Header, 3-Pin	HDR1X4 HDR1X3	1
P4		PROGRAMMING	Header, 7-Pin CONN MICRO SD	HDR1X7	1
P5 Q1, Q2, Q3, Q4, Q5,		DM3D-SF NMOS-2	CARD PUSH-PULL N-Channel Power	FP-DM3D-SF-MFG TO-220AB	
O6 R1, R5, R6, R7, R10, R11, R12, R13, R14, R15, R17, R19, R23, R25, R26, R27, R28, R29, R30, R31, R32, R34, R35, R36, R37,	0.007	CRE2512-FZ-R007E-3	MOSFET  RES SMD 0.007 OHM 1% 3W 2512	2512L	28
R38, R40, R41 R2, R3, R4	75k	CRCW060375K0JNEA	RES, 75 k, 5%, 0.1 W, 0603	0603L	3
R8	10k	CRCW060310K0JNEA	RES, 10 k, 5%, 0.1 W, 0603	0603L	1
R9	120	CRCW0603330RINEA	RES, 330 ohm, 5%, 0.1W, 0603 ERJ-3GEYJ103V. 10 kOhms ±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-	0603L J1-0603	1
R18	10K	5%	Q200 Thick Film  ERJ-3GEYJ103V. 10 kOhms ±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC- Q200 Thick Film	J1-0603	1
Dan Day Daa	54	CBCIMID/02E/DOWN:	RES, 56 ohm, 5%,	04031	-
R20, R21, R22 R24	56 10K	CRCW060356R0JNEA CRCW060356R0JNEA	0.1W, 0603 RES, 56 ohm, 5%,	0603L 0603l	3
	. 60%		0.1W, 0603 NTC Thermistor for	- Jour.	'
RT1, RT2, RT3, RT4, RT5, RT6, RT7, RT8		10k	Temperature Sensor, SMD 0603, 10kΩ	ERT-J1VG103JA PTS636 SM43 SMTR	8
S1 TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14	White	SW-PB 5002	Switch Test Point, Miniature, White, TH	LFS Keystone5002	14
U		DRV8323SRTAT	Multiphase Motor Driver Power MOSFET SPI 40- WQFN_6x6_	OFN50P600X600X80- 41N415X415	1
U1, U5		LM324AMX/NOPB	Gen Purp 4Ch Opamp	LM324AMX/NOPB SOIC127P600X175-8N	4
		TJA1051T_3,118	Integrated Circuit	SOIC127P600X175-8N STM32F405RGT6TR	1
U3		STM32F405RGT6TR			
-		STM32F405RGT6TR TLV1117-33IDCYR INA180	Integrated Circuit OV to 26V Current Sense Amplifier	SOT230P700X180-4N INA180	;







