Designator	Value	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		C0805C103K8RAC7800 . 10000pF ±10% 10V Ceramic Capacitor X7R 0805 (2012 Metric) . 00805C104K8RACTU. 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. 0.1µF ±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) C0805C104K8RACTU.	C0805	2
C13	10uF	10V	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	10V	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, 17-10/0, A7K,	0603L	3
C30, C31	28pF	50V	0603 CBR08C409B5GAC, CBR08C409B5GAC. 4pF±0.1pF50V Ceramic Capacitor COG, NPO 0805 (2012 Metric)	C0805	2
C32, C34, C36, C37, C38, C39, C40, C42,	0.1uF	0603YC104JAT2A	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		74650094R x3	Header, 4-Pin Header, 3-Pin	HDR1X4 HDR1X3	1
P4 P5		PROGRAMMING DM3D-SF	Header, 7-Pin CONN MICRO SD	HDR1X7 FP-DM3D-SF-MFG	1
Q1, Q2, Q3, Q4, Q5,		NMOS-2	N-Channel Power	TO-220AB	
O6 R1, R5, R7, R10, R11, R12, R13, R14, R15, R17, R19, R23, R25, R26, R27, R28, R29, R30, R31, R32, R34, R35, R36, R37, R38,	0.007	CRE2512-FZ-R007E-3	MOSFET RES SMD 0.007 OHM 1% 3W 2512	2512L	28
R40, R41, R? 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	330	CRCW0603330RJNEA	RES, 330 ohm, 5%, 0.1W, 0603	0603L	1
R16	120	5%	ERJ-3GEYJ103V. 10 kOhms ±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC- 0200 Thick Film	J1-0 6 03	1
		1	l		i e
R18	10K	5%	ERJ-3GEYJ103V. 10 kOhms ±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC- 0200 Thick Film	J1-0603	1
R18 R20, R21, R22	10K	5% CRCW060356R0JNEA	kOhms ±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC- Q200 Thick Film RES, 56 ohm, 5%,	J1-0603	1
			kOhms ±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC- 0200 Thick Film		3
R20, R21, R22	56	CRCW060356R0JNEA	kOhms ±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC- 0200 Thick Film RES, 56 ohm, 5%, 0.1W, 0603 RES, 56 ohm, 5%, 0.1W, 0603 NTC Thermistor for Temperature Sensor,	0603L	1
R20, R21, R22 R24 RT1, RT2, RT3, RT4, RT5, RT6, RT7, RT8	56	CRCW060356R0JNEA CRCW060356R0JNEA 10k	kOhms ±5% 0.1W, 1/10W Chip Resistor 6003 (1608 Metric) Automotive AEC- Q200 Thick Film RES, 56 ohm, 5%, 0.1W, 0603 RES, 56 ohm, 5%, 0.1W, 0603 NTC Thermistor for Temperature Sensor, SMD 0603, 10kQ	0603L 0603L ERT-J1VG103JA PTS636 SM43 SMTR	1
R20, R21, R22 R24 R11, R12, R13, R14, R15, R16, R17, R18 S1 IP1, IP2, IP3, IP4, IP5, IP6, IP7, IP8,	56	CRCW060356R0JNEA CRCW060356R0JNEA	kOhms 45% 0.1 W. 1/10W Chip Besistor 0403 (1469 Metric) Automotive AEC- 0200 Thick Film 16ES, 56 ohm, 5%, 0.1 W. 0403 16ES, 56 ohm, 5%, 0.1 W. 0403 NIC Thermistor for Temperature Sensor, SMO 0403, 10kΩ Switch Test Point, Ministure, White, TH	0603L 0603L ERT-J1VG103JA	8
R20, R21, R22 R24 RT1, R12, R13, R14, R15, R16, R17, R18 S1 F1, F12, F13, F14, F15, F16, F17, F18, F19, F19, F19, F11, F11, F11, F11, F11	56 10K	CRCWO60356R0JNEA CRCWO60356R0JNEA 10k SW-PB 5002 DRV8323SRTAT	kichms 45% 0.1 W. I/10W Chip Resistor 0603 (168 Metric) Automotive Adutomotive Adutomotive Adutomotive Adutomotive Age RES, 56 ohm, 5%, 0.1 W. 0603 INC 10003 INC 10003 INC 10003 INC 10003 Switch Test Point, Miniature, White, IH Multiphase Motor MOSPET SPI 40- M	0603L ERT-JIVG103JA PTS636 SM43 SMTR LFS Keystone5002 OFNS0P600K600X80-41N415X415	14
R20, R21, R22 R24 R11, R12, R13, R14, R15, R16, R17, R18 S1 S1 P1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP1, TP12, TP13, TP14 U1, U5	56 10K	CRCWO60354R0JNEA CRCWO60354R0JNEA 10k SW-PB 5002 DRV8323SRTAT LM324AMW/NOPB	Clome 59% Q. W. 170M Chip Reside Mertic) Automotive AEC. C200 Thick Film RES, Se chm, 5%, D. W. W. D. W. D	0603L ERT-JIVG103JA PTS636 SM43 SMTR LFS Keystone5002 OFNSOP600K600X80-41N415X415 LM324AMX/NOPB	1
R20, R21, R22 R24 R71, R12, R73, R74, R75, R76, R77, R78 S1 F91, F92, F93, F94, F97, F98, F99, F910, F911, F911, F914 U1, U5 U2 U3	56 10K	CRCW060356R0JNEA CRCW060356R0JNEA 10k SW-PB 5002 DRV8322SRTAT LM3224AMC/NOPB 1311051T_3,118 STM022405R0TGTR	Clomes 5% O. W. 170M Chip Reside Metric) Automative See Metric) Automative See CO20 Thick Film RES, Seichen, SW, O. W. 6030 RES, Seichen, SW, O. W. 6030 RES, Seichen, SW, O. W. 6030 SW 6030 Switch Test Point, Mentaline Metric Seice Switch Test Point, Mentaline, White, TH Milithrous Motor Seice Gen Purp Ath Opamp Integrated Circuit	0603L ERT-JIVG103JA PTS-636 SM43 SMTR LFS Keystone5002 OF NSOP600X400X80-41N415X415 LMS2A40MAU/NOPB SDICL27P600X175-8IN STMS2F4098K161FR	14
R20, R21, R22 R24 R11, R12, R13, R14, R15, R17, R18 S1 TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP1, TP8, TP1, TP1, TP1, TP1, TP1, TP1, TP1, TP1	56 10K	CRCW060356R0JNEA CRCW060356R0JNEA 10k SW-P8 5002 DRV83225RTAT LM324AM6/NOP8 TJA1051T_3.118	Clome 59% Q. W. 170M Chip Reside Mertic) Automotive AEC. C200 Thick Film RES, Se chm, 5%, D. W. W. D. W. D	0603L ERT-JIVG103JA PTS636 SM43 SMTR LFS Keystone5002 OF NEOP600X600X80-41N415X415 LM324AMXUNOPB SOIC127P600X175-6N	11







