Designator AC1	Value	PWM_CONTROL LIS3DHTR	Description Header, 6-Pin Accelerometer	Footprint HDR1X6 US3DHTR	Quantity
· · · · ·		- John III	C0805C104K8RACTU. 0.1uF ±10% 10V	A I I NAME OF	
C1	0.047μF	10V	0.1µF±10% 10V Ceramic Capacitor X7R 0805 (2012 Metric)	C0805	
			·		
			C0805C104K8RACTU. 0.1µF ±10% 10V		
02	1μF	10V	Ceramic Capacitor X7R 0805 (2012	C0805	
			Metric)		
			C0805C103K8RAC7800		
			. 10000pF ±10% 10V		
			Ceramic Capacitor X7R 0805 (2012		
C3, C8, C20, C21, C22,	0.1uF		Metric)	00005	
C23, C24, C38, C39	U. IUF		, C0805C104K8RACTU. 0.1μF ±10% 10V	CUOUS	
			Ceramic Capacitor X7R 0805 (2012		
			Metric)		
			C0805C104K8RACTU.		
			0.1μF ±10% 10V		
C4, C5, C6	1000pF		Ceramic Capacitor X7R 0805 (2012	C0805	
			Metric)		
			CL21B105KPFNNNE. 1µF ±10% 10V		
27	4.7uF		Ceramic Capacitor	C0805	
			X7R 0805 (2012 Metric)		
			C0805C104K8RACTU.		
			0.1µF ±10% 10V		
			Ceramic Capacitor X7R 0805 (2012		
C9, C19	1uF		Metric)	C0805	
	-		1μF ±10% 10V		
			Ceramic Capacitor X7R 0805 (2012		
			Metric)		
C10, C14	100uF	100V	Polarized Capacitor	C0805	
			(Surface Mount) C0805C225K8RACAUT		
			O. 2.2µF ±10% 10V Ceramic Capacitor		
C11, C12	2.2uF	10V	X7R 0805 (2012	C0805	
			Metric)		
			C0805C104K8RACTU. 0.1uF ±10% 10V		
C13, C42, C43	10uF	10V	Ceramic Capacitor	C0805	
,		· ·	X7R 0805 (2012 Metric)		
			C0805C104K8RACTU.		
			0.1μF ±10% 10V		
C15, C25, C34, C37	0.1uF	10V	Ceramic Capacitor X7R 0805 (2012	C0805	
			Metric)		
216	10uF	100V	Polarized Capacitor	C0805	
210	ioui	1004	(Surface Mount) C0805C104K8RACTU.	C0003	
			0.1µF ±10% 10V		
C17, C26, C33, C35	0.1μF	10V	Ceramic Capacitor X7R 0805 (2012	C0805	
			Metric)		
			C0805C103K8RAC7800		
C18	10nF		. 10000pF ±10% 10V Ceramic Capacitor	C0805	
. 10	TOTAL STATE OF THE PARTY OF THE		X7R 0805 (2012 Metric)		
			C0805C104K8RACTU.		
			0.1μF ±10% 10V		
C27, C28, C29	2200pF	10V	Ceramic Capacitor X7R 0805 (2012	C0805	
			Metric)		
			C0805C104K8RACTU.		
C30, C31	20-5	10V	0.1µF ±10% 10V Ceramic Capacitor	C0805	
	28pF	lov	X7R 0805 (2012 Metric)	CUOUS	
			C0805C104K8RACTU. 0.1µF ±10% 10V		
C32, C36, C40, C41	47nF	10V	Ceramic Capacitor	C0805	
			X7R 0805 (2012 Metric)		
			Typical RED, GREEN,		
D1		RED	YELLOW, AMBER	3.2X1.6X1.1	
C1		TMUX1208PWR	GaAs LED Integrated Circuit	SOP65P640X120-16N	
			WP-THRBU REDCUBE THR internal through-		
MP1, MP2, MP3, MP4, MP5		M4x3mm	hole thread,	74650094	
			10x10mm, M4x3mm, 8 pins, 85A		
P2 P4		PROGRAMMING	Header, 4-Pin Header, 7-Pin	HDR1X4 HDR1X7	
P5		DM3D-SF	CONN MICRO SD CARD PUSH-PULL	FP-DM3D-SF-MFG	
Q1, Q2, Q3, Q4, Q5,		NMOS-2	N-Channel Power	CSD18502KCS	
26 R1, R2, R4, R5, R6,		anou 2	MOSFET		
R10, R14, R24, R25,		10k	Resistor	0603 - Resistor	1
R26, R31, R? R3		330	Resistor	0603 - Resistor	
R7, R8, R15, R17, R19	1	500u 2.2k	Resistor Resistor	0603 - Resistor 0603 - Resistor	
29. R34. R35. P34			Resistor	0603 - Resistor	
R11, R12, R23		100		OV 03 D	1
R11, R12, R23			Resistor ERJ-3GEYJ103V. 10	0603 - Resistor	
R11, R12, R23		100	Resistor ERJ-3GEYJ103V. 10 kOhms ±5% 0.1W, 1/10W Chip Resistor	0603 - Resistor	
R11, R12, R23 R13, R30, R32, R33	120	100	Resistor ERJ-3GEYJ103V. 10 kOhms ±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric)	0603 - Resistor J1-0603	
R11, R12, R23 R13, R30, R32, R33	120	100 50k	Resistor ERJ-3GEYJ103V. 10 kOhms ±5% 0.1W, 1/10W Chip Resistor	0603 - Resistor	
R11, R12, R23 R13, R30, R32, R33	120	100 50k	Resistor ERJ-3GEYJ103V. 10 kOhms ±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-	0603 - Resistor	
R11, R12, R23 R13, R30, R32, R33 R16	120	100 50k 5%	Resistor ERJ-3GEVJ103V. 10 kOhms ±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC- 0200 Thick Film Resistor	0603 - Resistor  J1-0603  0603 - Resistor	
R11, R12, R23 R13, R30, R32, R33 R16 R16 R18, R27, R28, R29 R20, R21, R22	120	100 50k 5%	Resistor ERI-3GEYJ103V. 10 kOhms ±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC- 0200 Thick Film Resistor Resistor	0603 - Resistor	
R11, R12, R23 R13, R30, R32, R33 R16 R16 R18, R27, R28, R29 R20, R21, R22 R11, R12, R13, R14,	120	100 50k 5%	Resistor ERF-36E9/103V-10 kOhms ±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC- 0200 Thick Film  Resistor Resistor NTC Thermistor for Temperature Sensor,	0603 - Resistor  J1-0603  0603 - Resistor  0603 - Resistor	
R11, R12, R23 R13, R30, R32, R33 R16 R16 R18, R27, R28, R29 R20, R21, R22 R11, R12, R13, R14,	120	100 50k 5% 5%	Resistor ERI-3GEYJ103V. 10 KOhms ±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC- 0200 Thick Film Resistor Resistor NTC Thermistor for	0603 - Resistor  J1-0603  0603 - Resistor  0603 - Resistor	
R11, R12, R23 R13, R30, R32, R33 R16 R16 R16 R218, R27, R28, R29 R20, R21, R22 R11, R12, R13, R14, R15, R16, R17, R18	120	100 50k 5% 5%	Resistor ERF-36E9/103V-10 kOhms ±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC- 0200 Thick Film  Resistor Resistor NTC Thermistor for Temperature Sensor,	0603 - Resistor  J1-0603  0603 - Resistor  0603 - Resistor	
RN, R24, R35, R36 R11, R12, R23 R13, R30, R32, R33 R16 R16 R16 R17, R28, R29 R20, R21, R22 R11, R12, R13, R14, R15, R16, R17, R18 S1 R191, IP2, IP3, IP4, IP5, IP4, IP4, IP4, IP4, IP4, IP4, IP4, IP4		500 50k 5% 5% 500m 50 10k SW-PB	Resistor En.JGE/Y103V. 10 kOhrns ±5% 0.1W, 17/10W Chip Resistor Good 3(168 Metric) Automotive AEC- Q200 Thick Film Resistor Resistor Resistor Temperature Sensor, SMD 0603, 10k0	0603 - Resistor J1-0603  0603 - Resistor 0603 - Resistor 0603 - Resistor ERT-J1VG103JA PTS636SM43SMTRLFS	
R11, R12, R23 R13, R30, R32, R33 R16 R16 R16 R18, R27, R28, R29 R20, R21, R22 R11, R12, R13, R14, R15, R16, R17, R18 S1 FP1, FP2, FP3, FP4, FP5, FP6, FP7, FP8, FP0, FP10, FP11,	120	500 50k 50k 50k 500m 500m	Resistor ERJ-36E7J103V. 10 KOhms ±5% 0.1W, 1/1/0W Chip Resistor 0603 (1608 Metric) Automotive AEC- 0200 Thick Film Resistor Resistor NTC Thermistor for Temperature Sensor, SMD 0603, 10k0	0603 - Resistor JT-0603  0603 - Resistor 0603 - Resistor 0603 - Resistor ERT-J1VG103JA  PTS636SM43SMTRLFS	
R11, R12, R23 R13, R30, R32, R33 R16 R16, R27, R28, R29 R20, R21, R22 R11, R12, R13, R14, R15, R16, R17, R18		500 50k 5% 5% 500m 50 10k SW-PB	Resistor ER-JSGY103V-10 kOhms-SF% 0.1W, 1/10W Chip Resistor G043 (1486 Metric) Automotive AEC- G200 Thick Film Resistor Resistor NIC Thermistor for Temperature Sensor, SMIO 0603, 10kΩ Switch Test Point, Ministure, White, TH	0603 - Resistor JT-0603  0603 - Resistor 0603 - Resistor 0603 - Resistor ERT-J1VG103JA  PTS636SM43SMTRLFS	,
R11, R12, R23 R13, R30, R32, R33 R16 R16 R16 R18, R27, R28, R29 R20, R21, R22 R11, R12, R13, R14, R15, R16, R17, R18 S1 FP1, FP2, FP3, FP4, FP5, FP6, FP7, FP8, FP0, FP10, FP11,		500 50k 5% 5% 500m 50 10k SW-PB	Resistor ERJ-SCEY103V. 10 kOhrns 25% 0.1 W. 1/10W Chip Resistor 0603 (1686 Metric) Automotive Action Resistor Resistor Resistor Resistor SNID 0603, 10k0 Switch Test Point, Miniature, White, TH Multiphase Motor Driver Power	0603 - Resistor  0603 - Resistor  0603 - Resistor  0603 - Resistor  ERT-11VG103IA  PTS636SM43SMTRLFS  Keystone5002  OFN50P600X600X80	,
111, R12, R22 113, R30, R32, R33 116 116 1178, R27, R28, R29 120, R27, R22 1171, R12, R13, R14, R15, R16, R17, R18 131 1191, T172, T13, T174, R19 131 131 131 131 131 131 131 131 131 1		100 50k 50k 50k 50k 50k 50k 50k 50k 50k 5	Resistor ERJ-SCEY103V. 10 kOhrns 55% 0.1 W. 1/10W Chip Resistor 0603 (1668 Metric) Automotive Action Resistor Resistor Resistor Resistor SNID 0603, 10k0 Switch  Test Point. Miniature, White, TH Multiphase Motor MOSFET SPI 40- MOSFE	0603 - Resistor  0603 - Resistor  0603 - Resistor  0603 - Resistor  ERT-JTVG103IA  PTS636SM43SMTRLFS  Keystone5002  OFNS0P600X600X80-41N415X415	,
211, R12, R22 213, R30, R32, R33 216 216 217, R30, R32, R33 217, R30, R32, R34, R34, R37, R36, R37, R36 210, R32, R34, R34, R34, R35, R34, R34, R34, R34, R34, R34, R34, R34		50k 50k 55k 55k 55k 55k 55k 55k 55k 55k	Resistor EB-J SCEY103V. 10 kOhms 25% 0.1 W. 1/10W Chip Resistor 0603 (1668 Metric) Automotive Action Resistor Resistor NIC Thermistor for Temperature Sensor, SMD 0603, 10k.0 Switch Ministure, White, TH Multiphase Motor Driver Power MOSFET SPI 40-	0603 - Resistor  11-0603  0603 - Resistor 0603 - Resistor 0603 - Resistor ERT-J1VG103JA PTS6365M43SMTRLFS Keystone5002  OFN:50P400X400X804 H1N15X415 TJA1061T_3,118	,
111, R12, R22 113, R30, R32, R33 116 116 1178, R27, R28, R29 120, R27, R22 1171, R12, R13, R14, R15, R16, R17, R18 131 1191, T172, T13, T174, R19 131 131 131 131 131 131 131 131 131 1		100 50k 50k 50k 50k 50k 50k 50k 50k 50k 5	Resistor ER-JSCEY103V-10 kOhms 55% 0.1W, 17/10W Chip Resistor 0603 (1060 Mentra) Resistor Resistor Resistor NTC Thermistor for Temperature Sensor, SMID 0603, 10k0 SWItch Test Point, Ministure, White, TH Multiphase Motor Driver Power MOSYL 200 Motor 100 Mot	0603 - Resistor  0603 - Resistor  0603 - Resistor  0603 - Resistor  ERT-JTVG103IA  PTS636SM43SMTRLFS  Keystone5002  OFNS0P600X600X80-41N415X415	1
11, R12, R22 113, R00, R32, R33 116 117, R00, R32, R33 116, R27, R28, R29 117, R72, R13, R14, R15, R16, R17, R18 119, R27, R28, R47, R18 119, R27, R38, R44, R38, R47, R18 119, R27, R38, R44, R38, R47, R18 119, R27, R38, R44, R38, R47, R48 119, R27, R38, R44, R48, R47, R48 119, R27, R38, R44, R48, R48, R48, R48, R48, R48, R4		50k 50k 50k 50k 50k 50k 50c 50c 50c 10k 50c 10k 50c 10k 50c 10k 50c 10k 11k 15k 15k 15k 15k 15k 15k 15k 15k 15	Resistor ER-JSCY103V-10 kOhms-5% 0.1W, 1/10W Chip Resistor 0603 (1686 Metric) 0603 (1686 Metric) 070 Thick Film Resistor Resistor Resistor Resistor SWID (1687 Metric) Miniature, White, TH Multiphase Motor Driver Power MOSET SPI 40- WOSTN_666. Integrated Circuit	0603 - Resistor  JT-0603  D003 - Resistor  0603 - Resistor  0603 - Resistor  ERT-JTVG103IA  PTS6365M43SMTRLFS  Keystone5002  OF NEOPEODM600X80-41N415X415  TAH0817_3.118  TAH0817_3.118	1
R11, R12, R23 R13, R80, R32, R83 R16 R16 R17, R28, R29 R18, R27, R28, R29 R18, R27, R28, R29 R11, R72, R73, R74, R75, R76, R77, R78 R19, R74, R74, R74, R74, R74, R74, R74, R74		100 50k 50k 596 596 100 SW-PB 5002 DRV8323SRTAT TJA1051T_3_118 STMCSF-00RG161FR TU1117-331BG5WR	Resistor ER-J SCEY1009. 10 kOhms 55% 0.1 W, 17/10W Chip Resistor 0603 (1060 Meric) 0803 (1060 Meric) 0803 (1060 Meric) 0803 (1060 Meric) 0804 (1060 Meric) 0805 (1060 Meric) 0	0603 - Resistor  J1-0603  0603 - Resistor  0603 - Resistor  0603 - Resistor  ERT-J1VG103JA  PTS636SM43SMTRLFS  Keystone5002  OFNS0P600X600X80  4TN415X415  TJA1051T_3.118  STMCZF405RG161R  TJV1117-33105FR	1
711 R12, R22 713 R20, R32, R33 716 R27, R28, R29 716 R27, R28, R29 720, R21, R22 721, R22, R33, R14, 725, R16, R17, R18 731 741, R12, R13, R14, 745, R16, R17, R18 741,		100 50k 50k 596 596 10k SW-PB 5002 DRV8323SRTAT TJA1051T_3.118 STM252405RGT61R TU1117-33IDCVR INA180	Resistor ER-J SCEY1009. 10 kOhms 55% 0.1 W, 17/10W Chip Resistor 0603 (1060 Meric) 0803 (1060 Meric) 0803 (1060 Meric) 0803 (1060 Meric) 0804 (1060 Meric) 0805 (1060 Meric) 0	0603 - Resistor  J1-0603  0603 - Resistor  0603 - Resistor  0603 - Resistor  ERT-J1VG103IA  PTS6-365M43SMTRLFS  Keystone5002  OFNS0F-600K600X80- 41N415X415  TJA1051T_3.118  STM2F-605RG16TR  TJV11T7-331DCYR  INA180	,











