

1

2

3

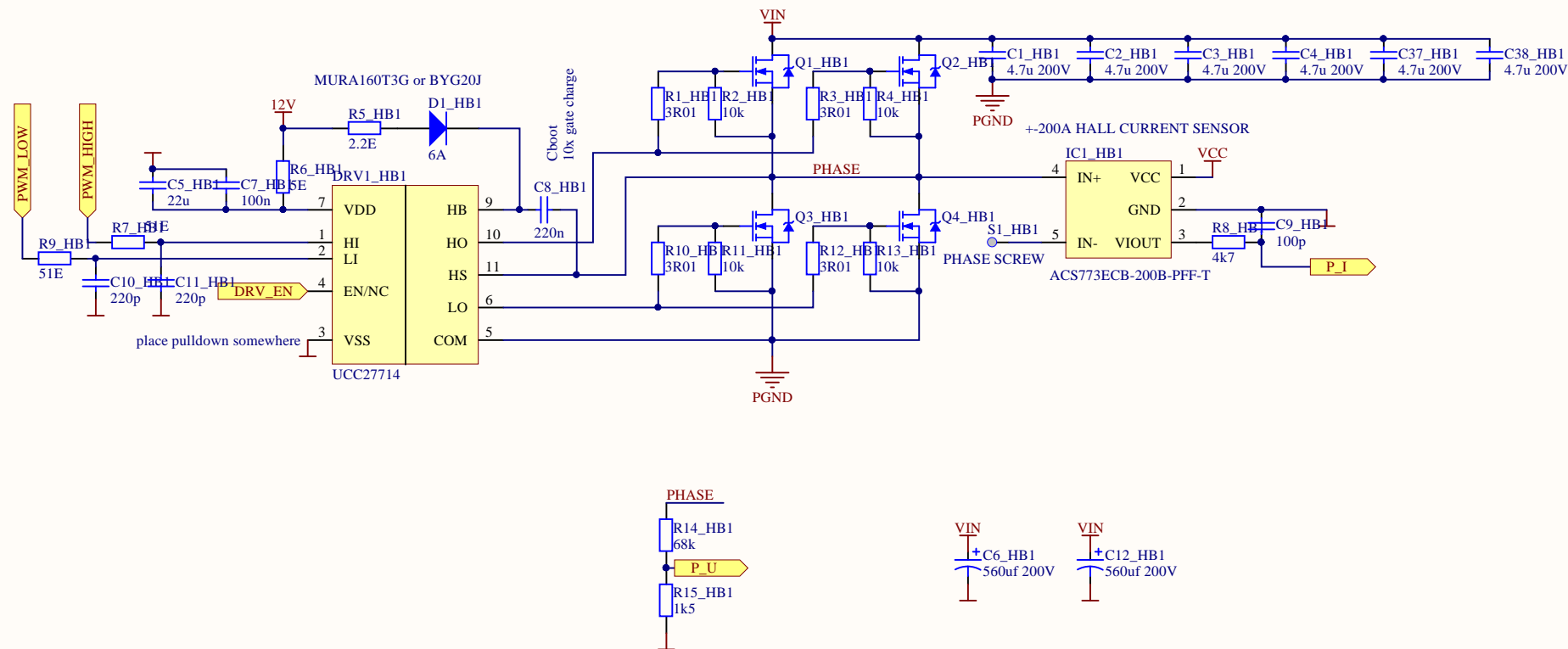
4

A

B

C

D



Title			BESC DRIVE	
Size	Number		Revision	
A4			INIT	
Date:	3.11.2018		Sheet	of
File:	A:\Documents\...\besc drive sch.SchDoc		Drawn By:	

1

2

3

4

1

2

3

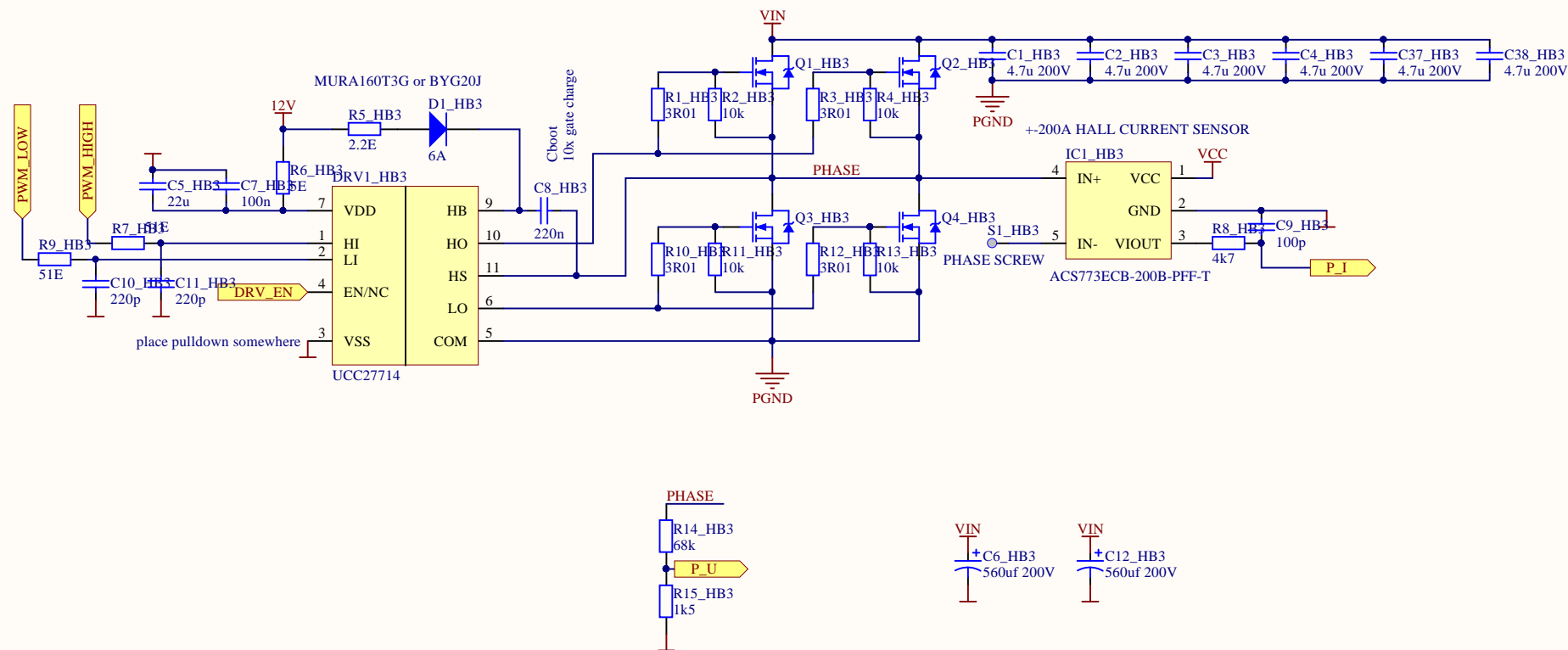
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A

B

C

D



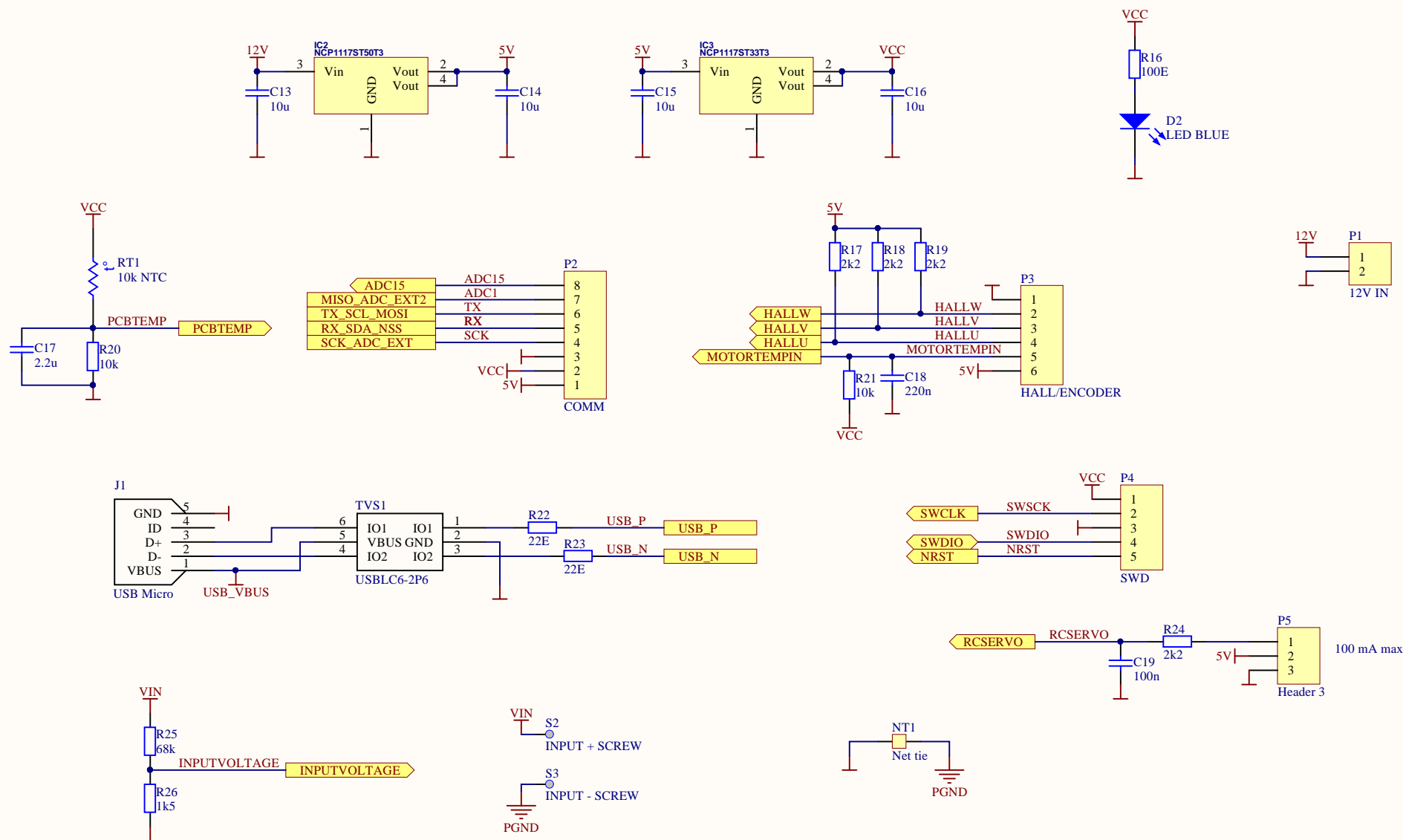
Title BESC DRIVE			
Size A4	Number		Revision INIT
Date:	3.11.2018	Sheet	of
File:	A:\Documents\...\besc drive sch.SchDoc		Drawn By:

1

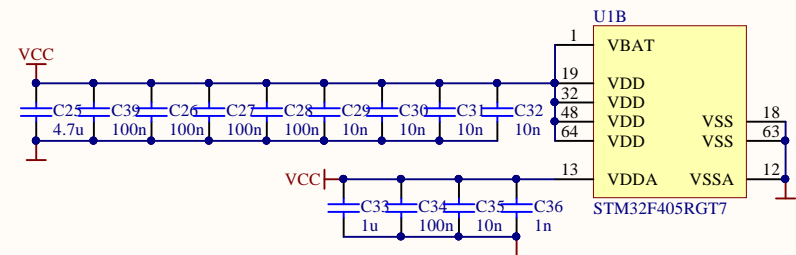
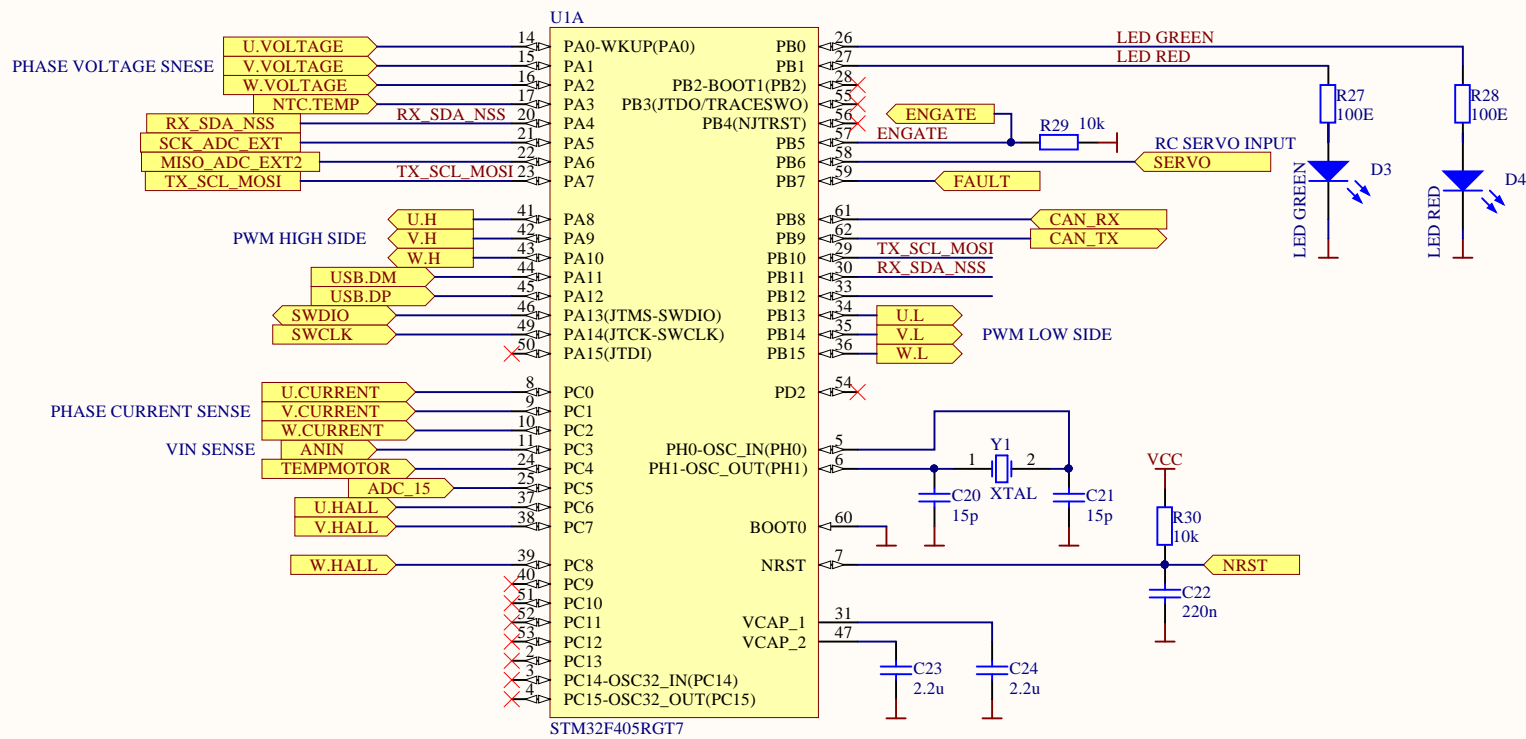
2

3

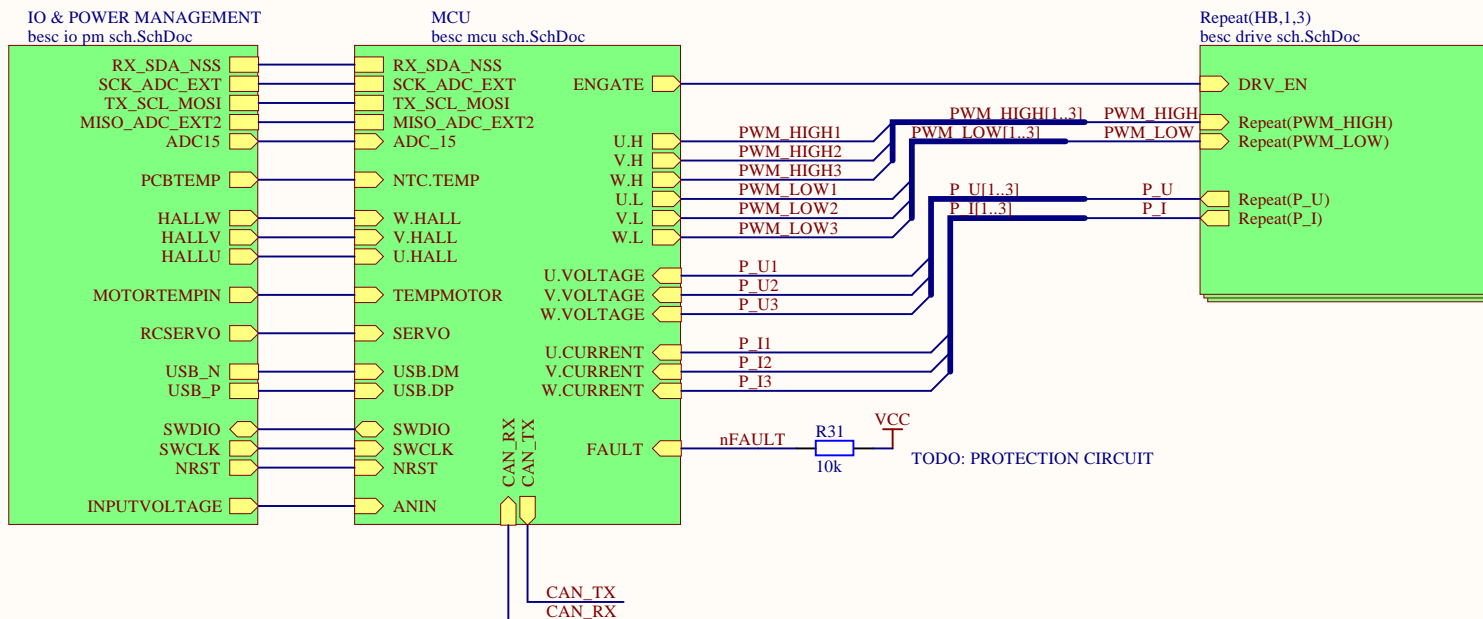
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Title			BESC IO / POWER MANAGEMENT	
Size	Number		Revision	
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Date:	3.11.2018		Sheet	of
File:	A:\Documents\...\besc io pm sch.SchDoc		Drawn By:	



Title BESC MCU			
Size A4	Number		Revision INIT
Date:	3.11.2018	Sheet	of
File:	A:\Documents\...\besc mcu sch.SchDoc	Drawn By:	



Title			
Size	Number		Revision
A4			
Date:	3.11.2018	Sheet	of
File:	A:\Documents\ev\BESC\besc sch.SchDocDrawn By:		

Bill of Materials

Bill of Materials For Project [besc proj,PrjPcb] (No PCB Document Selected)

Source Data From: besc proj,PrjPcb
Project: besc proj,PrjPcb
Variant: None

Creation Date: 3.11.2018 14:45:40
Print Date: 43407 43407,61512

Footprint	Comment	LibRef	Designator	Description	Quantity
CAP 2220/5650 3.3MM	4.7u 200V	cap	C1_HB1, C1_HB2, C1_HB3, C2_HB1, C2_HB2, C2_HB3, C3_HB1, C3_HB2, C3_HB3, C4_HB1, C4_HB2, C4_HB3, C37_HB1, C37_HB2, C37_HB3, C38_HB1, C38_HB2, C38_HB3	Capacitor	18
0805 ELKO_18x40_90deg 0603	22u 560uf 200V	cap Cap Pol1	C5_HB1, C5_HB2, C5_HB3 C6_HB1, C6_HB2, C6_HB3, C12_HB1, C12_HB2, C12_HB3	Capacitor Polarized Capacitor (Radial)	3 6
0603	100n	cap	C7_HB1, C7_HB2, C7_HB3, C19, C26, C27, C28, C34, C39	Capacitor	9
0603	220n	cap	C8_HB1, C8_HB2, C8_HB3, C18, C22	Capacitor	5
0603	100p	cap	C9_HB1, C9_HB2, C9_HB3	Capacitor	3
0402	220p	cap	C10_HB1, C10_HB2, C10_HB3	Capacitor	3
0603	220p	cap	C11_HB1, C11_HB2, C11_HB3	Capacitor	3
0805	10u	Cap	C13, C14, C15, C16	Capacitor	4
0603	2.2u	Cap	C17, C23, C24	Capacitor	3
0603	15p	cap	C20, C21	Capacitor	2
0603	4.7u	cap	C25	Capacitor	1
0603	10n	cap	C29, C30, C31, C32, C35	Capacitor	5
0603	1u	cap	C33	Capacitor	1
0603	1n	cap	C36	Capacitor	1
DO-214AC 8A	DO-214AC 8A	Diode 1N4148	D1_HB1, D1_HB2, D1_HB3	High Conductance Fast Diode	3
0805-diode	LED BLUE	LED0	D2	Typical INFRARED GaAs LED	1
0805-diode	LED GREEN	LED0	D3	Typical INFRARED GaAs LED	1
0805-diode	LED RED	LED0	D4	Typical INFRARED GaAs LED	1
SOIC14_M ACS758	UCC27714 ACS773ECB-200B-PFF-T	UCC27714 ACS758	DRV1_HB1, DRV1_HB2, DRV1_HB3 IC1_HB1, IC1_HB2, IC1_HB3		3 3
SOT223_M	NCP1117S50T3	VOLTREG_LD1	IC2		1
SOT223_M	NCP1117S33T3	VOLTREG_LD1	IC3		1
MOLEX - 47346-0001 - MICRO USB TYPE B, RECEPTACLE, BOTTOM	USB Micro	USB Mini AB	J1	SOCKET, USB MINI-AB THRU HOLE	1
NETTIE12mil	Net tie	Net tie	NT1		1
JST SM02B-PASS-TB	12V IN	Header 2	P1	JST SM02B-PASS-TB	1
JST SM08B-PASS-TB	COMM	Header 8	P2	JST SM08B-PASS-TB	1
JST SM06B-PASS-TB	HALL/ENCODER	Header 6	P3	JST SM06B-PASS-TB	1
Header 1x5 male	SWD	Header 5	P4	Header, 5-Pin	1
JST SM03B-PASS-TB	Header 3	Header 3	P5	Header, 3-Pin	1
Dpak-7	IPB04N15N5	NMOS-2	Q1_HB1, Q1_HB2, Q1_HB3, Q2_HB1, Q2_HB2, Q2_HB3, Q3_HB1, Q3_HB2, Q3_HB3, Q4_HB1, Q4_HB2, Q4_HB3	N-Channel Power MOSFET	12
0603	3R01	Res2	R1_HB1, R1_HB2, R1_HB3, R3_HB1, R3_HB2, R3_HB3, R10_HB1, R10_HB2, R10_HB3, R12_HB1, R12_HB2, R12_HB3	Resistor	12
0603	10k	Res2	R2_HB1, R2_HB2, R2_HB3, R4_HB1, R4_HB2, R4_HB3, R11_HB1, R11_HB2, R11_HB3, R13_HB1, R13_HB2, R13_HB3, R20, R21, R29, R30, R31	Resistor	17
1210	2.2E	Res2	R5_HB1, R5_HB2, R5_HB3	Resistor	3
0603	5E	Res2	R6_HB1, R6_HB2, R6_HB3	Resistor	3
0603	51E	Res2	R7_HB1, R7_HB2, R7_HB3	Resistor	3
0603	4k7	Res2	R8_HB1, R8_HB2, R8_HB3	Resistor	3
0402	51E	Res2	R9_HB1, R9_HB2, R9_HB3	Resistor	3
0603	30k	Res2	R14_HB1, R14_HB2, R14_HB3, R26	Resistor	4
0603	1k5	Res2	R15_HB1, R15_HB2, R15_HB3, R26	Resistor	4
0603	100E	Res2	R16, R27, R28	Resistor	3
0603	2k2	Res2	R17, R18, R19, R24	Resistor	4
0603	22E	Res2	R22, R23	Resistor	2
0603	10k NTC	Res Thermal	R11	Thermistor	1
WP-SHFU-M6	PHASE	En_pin	S1_HB1, S1_HB2, S1_HB3	7461098	3
WP-SHFU-M6	SCREW	En_pin	S2	7461098	1
WP-SHFU-M6	INPUT + SCREW	En_pin	S3	7461098	1
WP-SHFU-M6	INPUT - SCREW	En_pin	S3	7461098	1
SOT23127P6	USBLC6-2P6	USBLC6-2P6	TVS1		1
00-8N STM-LQFP64_N	STM32F405RGT7	STM32F405RGT7	U1	ARM Cortex-M4 32-bit MCU+FPU, 210 DMIPS, 1024 kB Flash, 192 kB Internal RAM, 51 I/Os, 64-pin LQFP, -40 to 105 degC, Tray	1
XTAL 5 x 3.2 mm	XTAL	XTAL	Y1	Crystal Oscillator	1
					170

Approved	Notes