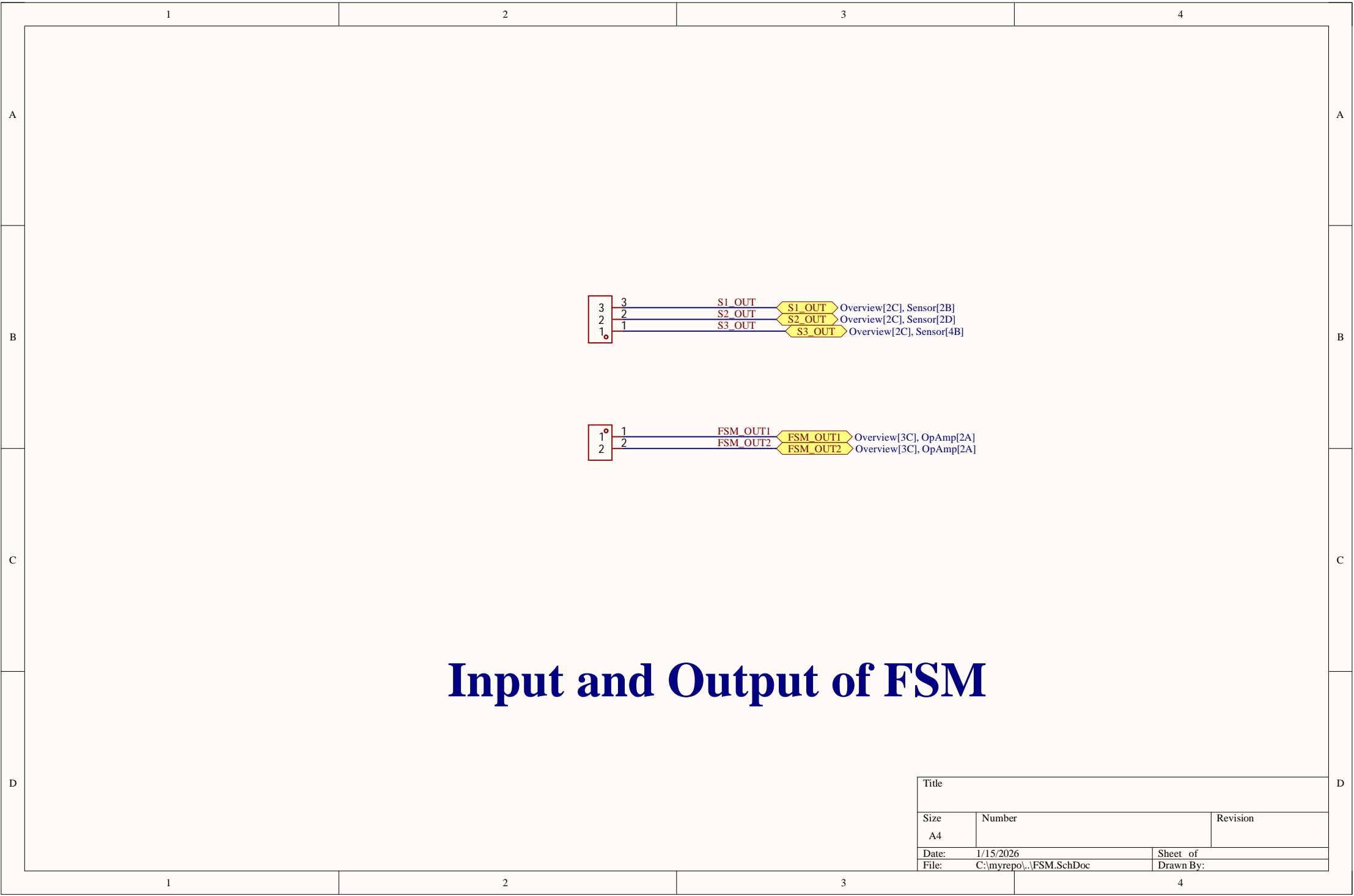
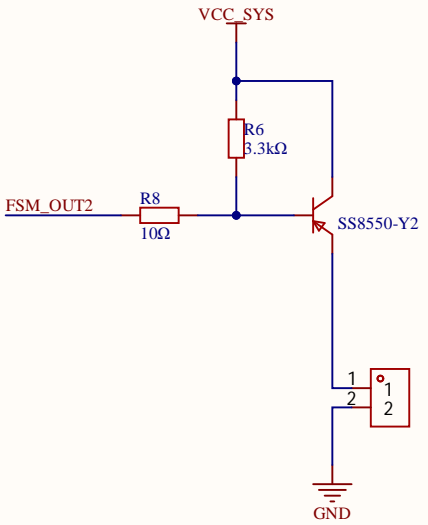
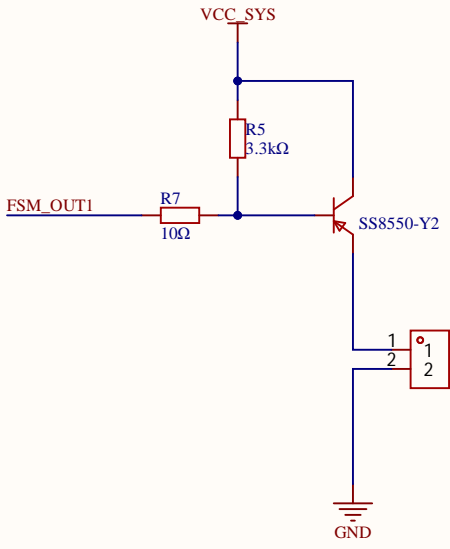
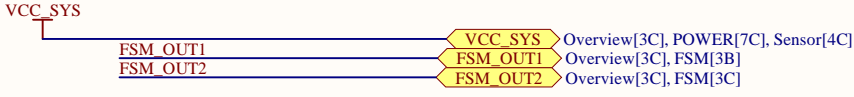


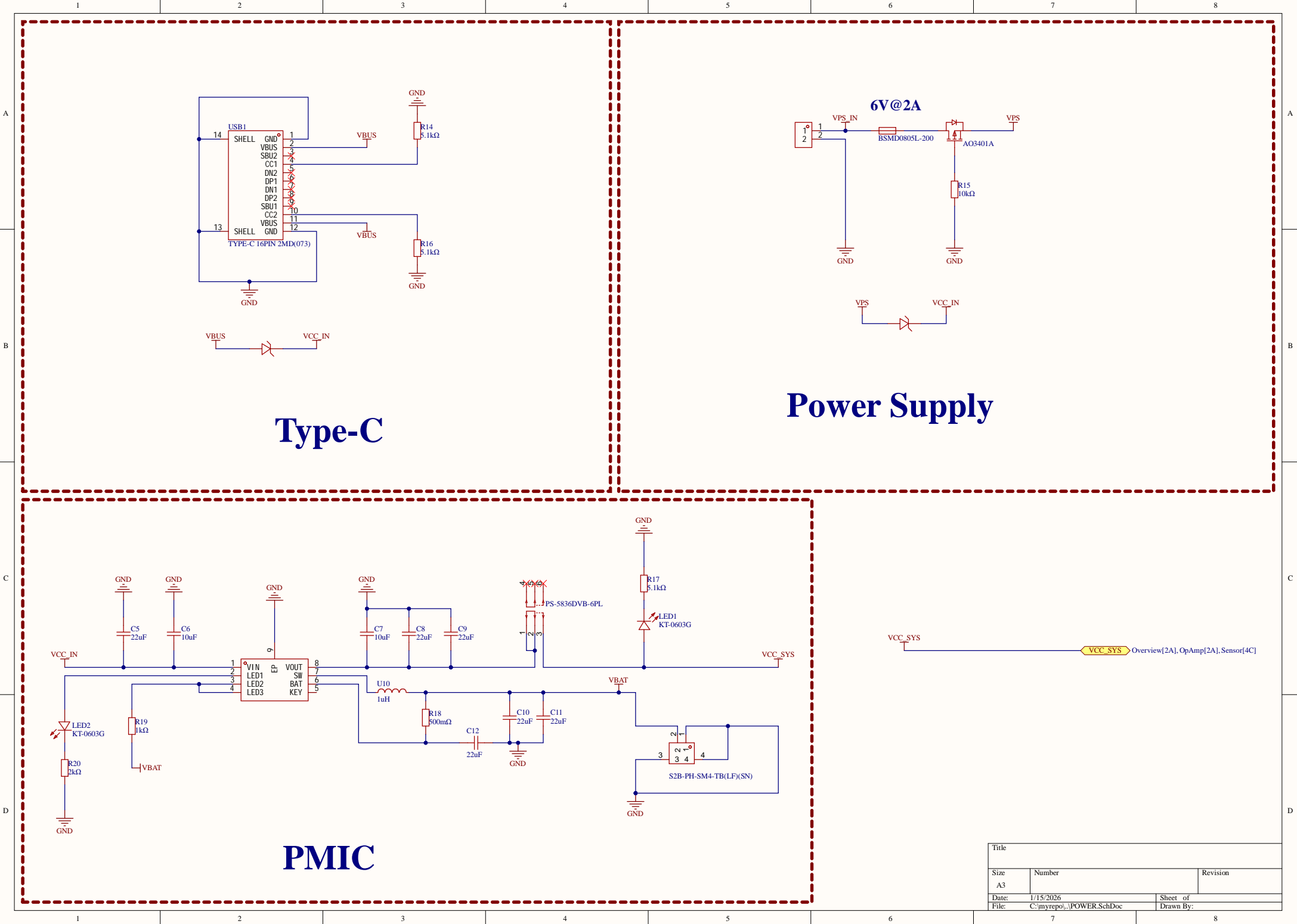
Title		
Size	Number	Revision
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Date:	1/15/2026	Sheet of
File:	C:\myrepo\...\Overview.SchDoc	Drawn By:



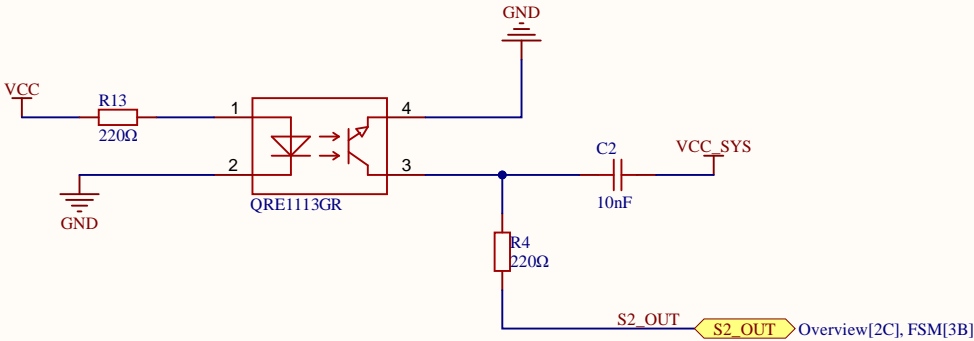
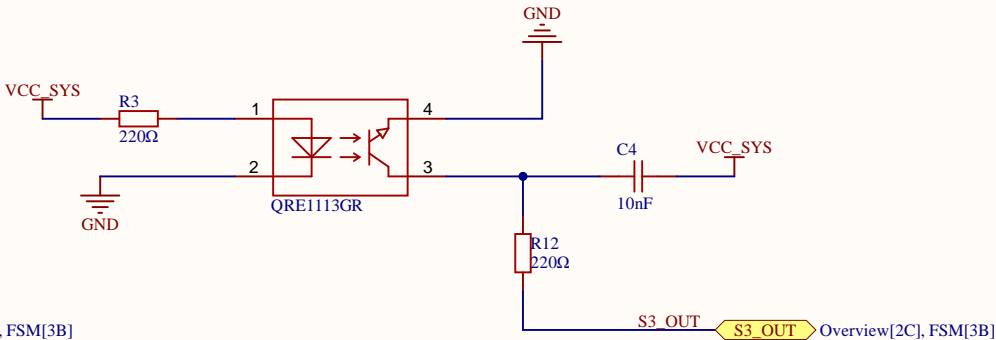
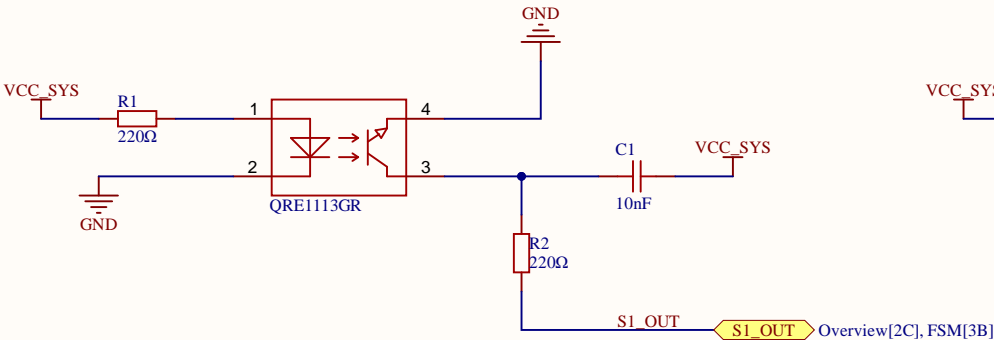


Motor

Title		
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A4		
Date:	1/15/2026	Sheet of
File:	C:\myrepo\...\OpAmp.SchDoc	Drawn By:

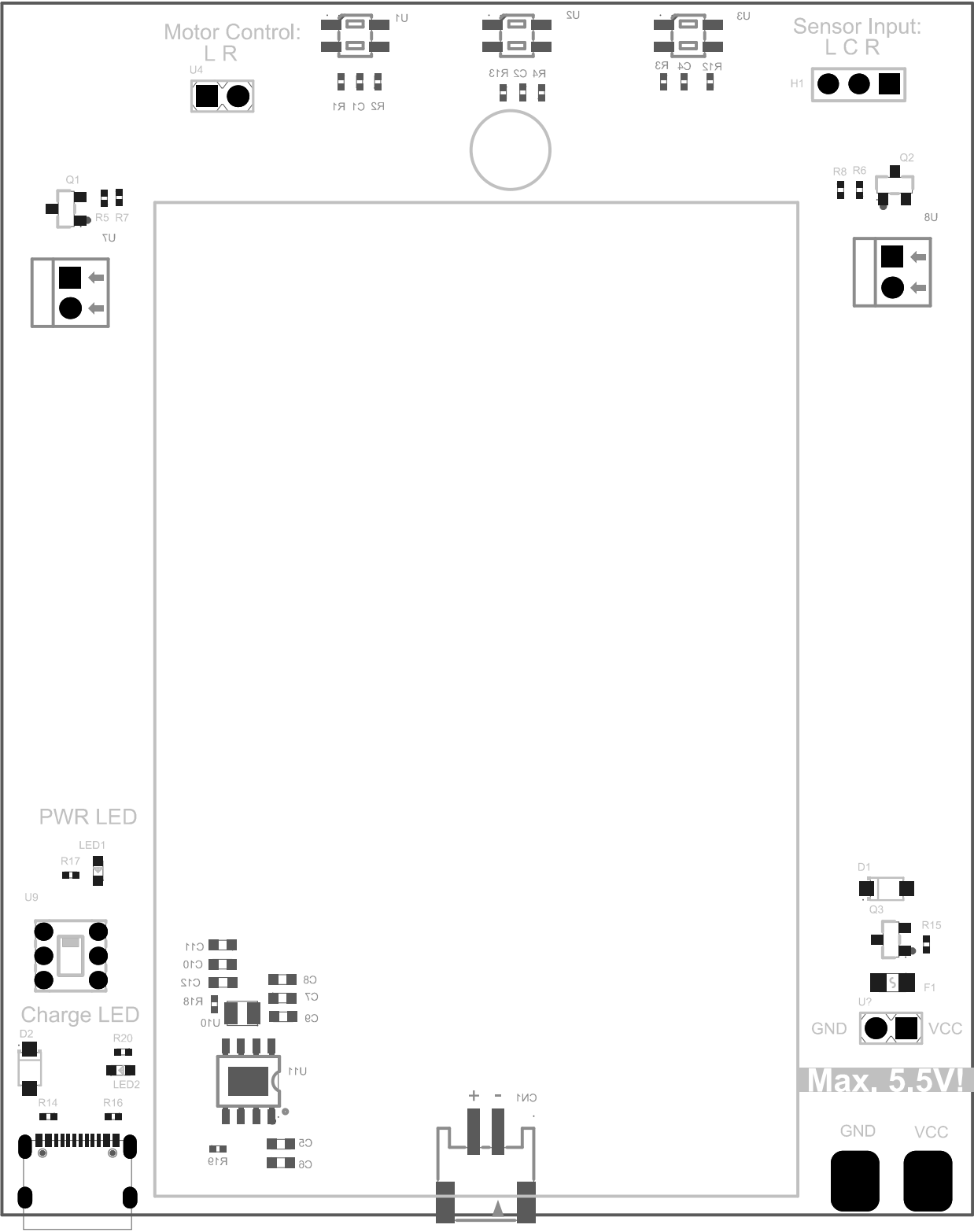


$$R = (VCC - V_F) / I_F = (5V - 1.6V) / 0.02A = 170\Omega$$



# Digital Sensor

Title		
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A4		
Date:	1/15/2026	Sheet of
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Comment	Description	Designator	Footprint	LibRef	Quantity
10nF	50V 10nF X7R ±10% 0402 Ceramic Capacitors ROHS	C1, C2, C4	C0402	10nF	3
22uF	16V 22uF X5R ±20% 0603 Ceramic Capacitors ROHS	C5, C8, C9, C10, C11, C12	C0603	22uF	6
10uF	10V 10uF X5R ±10% 0603 Ceramic Capacitors ROHS	C6, C7	C0603	10uF	2
S2B-PH-SM4-TB(LF)(SN)	1x2P 间距2mm 贴片 系列-PH	CN1	CONN-SMD_P2.00_S2B-PH-SM4-TB-LF-SN	S2B-PH-SM4-TB(LF)(SN)	1
DSK24	电压:40V 电流:2A	D1, D2	SOD-123FL_12.7-W1.8 LS3.8-RD	DSK24	2
BSMD0805L-200	6V 2A 0805自恢复	F1	F0805	BSMD0805L-200	1
HX PZ2 54-1x3P ZZ	3P 1x3P Gold Brass - 40°C, -105°C Black Pin Header 2.54mm 2.5mm 6mm 1kV 3mm 3A 1 Through Hole Through Hole P=2.54mm Headers, Male Pins ROHS	H1	CONN-TH_HX-PZ2 54- 1X3P-ZZ	HX PZ2 54-1x3P ZZ	1
KT-0603G	Green 0603 LED Indication - Discrete ROHS	LED1, LED2	LED0603-GR	KT-0603G	2
SS8550-Y2	H桥200-350 PNP 电流:1.5A 电压:25V 该 PNP 双极晶体管适用于 线性和开关应用。 此器件采用 SOT-23 封装，适用于低功耗 表面贴装应用。	Q1, Q2	SOT-23_L2.9-W1.3- P1.90-LS2.4-BR	SS8550-Y2	2
AO3401A	1个P沟道 耐压:30V 电流:4A	Q3	SOT-23_L2.9-W1.3- P1.90-LS2.4-BR	AO3401A	1
220Ω	100Ω 62.5mW 50V ±100ppm/°C Thick Film Resistor ±1% 0402 Chip Resistor - Surface Mount ROHS, 小尺寸，重量轻。 降低组装成本，与站 片匹配。适用于 波峰焊和回流焊	R1, R2, R3, R4, R12, R13	R0402	100Ω, 220Ω	6
3.3kΩ	62.5mW 3.3kΩ 50V ±100ppm/°C Thick Film Resistor ±1% 0402 Chip Resistor - Surface Mount ROHS	R5, R6	R0402	3.3kΩ	2
10Ω	100 62.5mW 50V ±200ppm/°C Thick Film Resistor ±1% 0402 Chip Resistor - Surface Mount ROHS	R7, R8	R0402	10Ω	2
5.1kΩ	5.1kΩ 62.5mW 50V ±100ppm/°C Thick Film Resistor ±1% 0402 Chip Resistor - Surface Mount ROHS	R14, R16, R17	R0402	5.1kΩ	3
10kΩ	62.5mW 10kΩ 50V ±100ppm/°C Thick Film Resistor ±1% 0402 Chip Resistor - Surface Mount ROHS	R15	R0402	10kΩ	1
500mΩ	1kΩ 62.5mW 50V ±100ppm/°C Thick Film Resistor ±1% 0402 Chip Resistor - Surface Mount ROHS	R18	R0402	1kΩ	1
1kΩ	1kΩ 62.5mW 50V ±100ppm/°C Thick Film Resistor ±1% 0402 Chip Resistor - Surface Mount ROHS	R19	R0402	1kΩ	1
2kΩ	100mW 2kΩ 75V ±100ppm/°C Thick Film Resistor ±1% 0402 Chip Resistor - Surface Mount ROHS	R20	R0402	2kΩ	1
QRE1113GR	QRE1113 由在塑料矩形盒体 中与兼容硅光电晶 体管并排封装的 940nm 发射极组成。采用 表面贴装和通孔选 项。	U1, U2, U3	OPTO-SMD_QRE1113GR	QRE1113GR	3
HX PZ2 54-1x2P ZZ		U4, U7	HDR-TH_2P-P2 54-V- M-3	HX PZ2 54-1x2P ZZ	2
W5500V-5.08-2P-13- 00A	2.54 screw terminal	U7, U8	CONN-TH_DB12S- 2.54-2P-GN	DORABO DB12S-2.54- 2P-GN-S	2
PS-5836DVB-6PL	高头斜嘴自锁 行程1 0mm.按动力250gf	U9	SW-TH_6P-15.8-WS.8- P2.00-LS4-S-BL	PS-5836DVB-6PL	1
1uH	1uH	U10	IND-SMD_L2.5- W2.0_WPN252012H	WPN252012H1ROMT	1
IP5306	集成2.1A充电器和2. 1A放电器的全集成 移动电源系统级芯 片	U11	ESOP-8_L4.9-W3.9- P1.27-LS6.0-BL-EP	IP5306	1
TYPE-C 16PIN 2MD(073)	16pin type-c	USB1	USB-C-SMD_TYPE-C- 6PIN-2MD-073	TYPE-C 16PIN 2MD(073)	1