

Title		
Size	Number	Revision
A4		
Date: 1/15/2026	Sheet of	
File: C:\myrepo\..\Overview.SchDoc	Drawn By:	

A

A

B

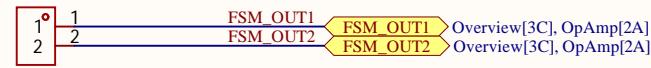
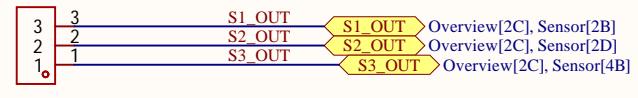
B

C

C

D

D



# Input and Output of FSM

Title		
Size	Number	Revision
A4		
Date: File:	1/15/2026 C:\myrepo\..\FSM.SchDoc	Sheet of Drawn By:

VCC\_SYS

FSM\_OUT1  
FSM\_OUT2VCC\_SYS Overview[3C], POWER[7C], Sensor[4C]  
FSM\_OUT1 Overview[3C], FSM[3B]  
FSM\_OUT2 Overview[3C], FSM[3C]

A

A

B

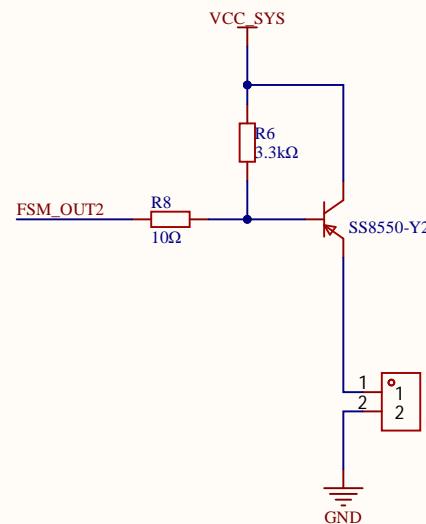
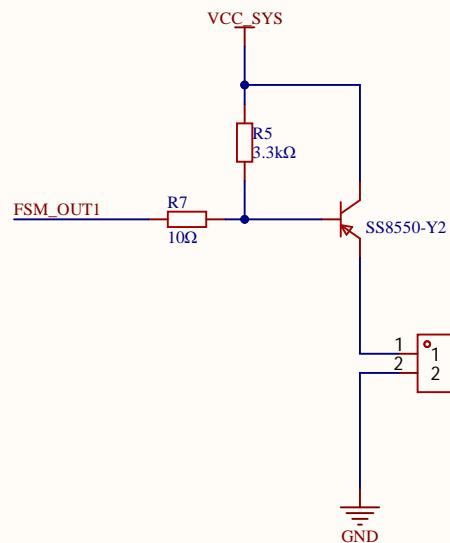
B

C

C

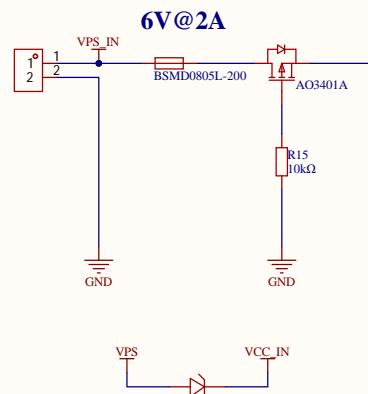
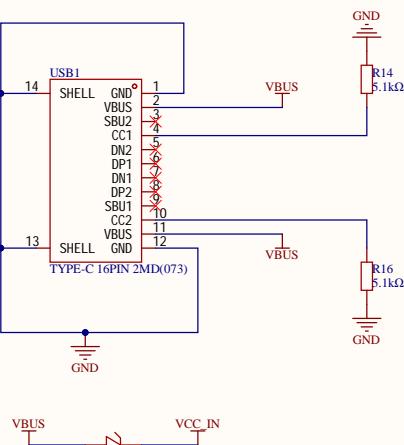
D

D



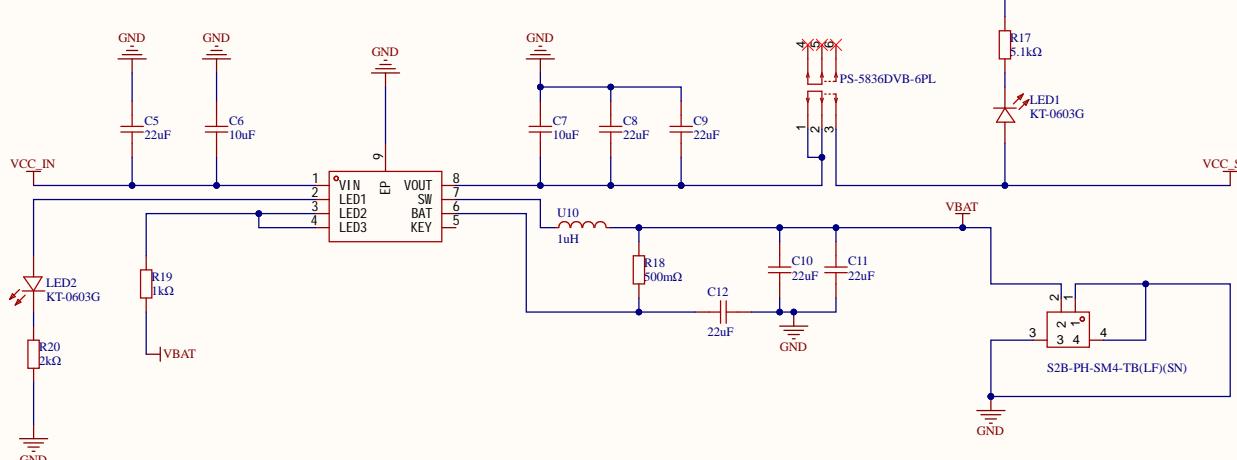
# Motor

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



## Type-C

## Power Supply

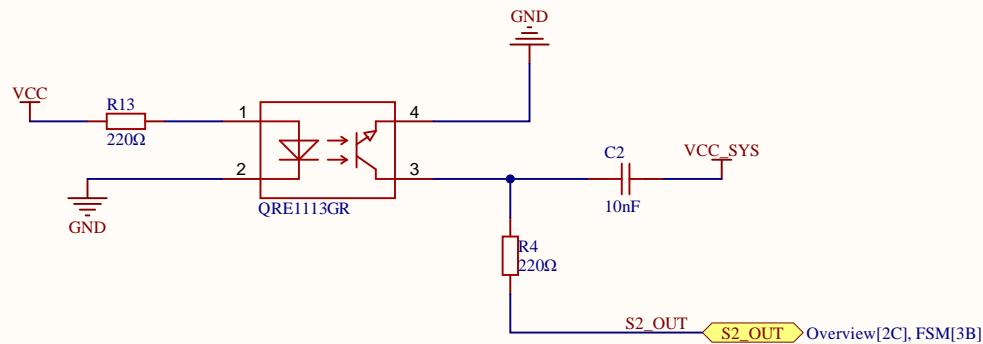
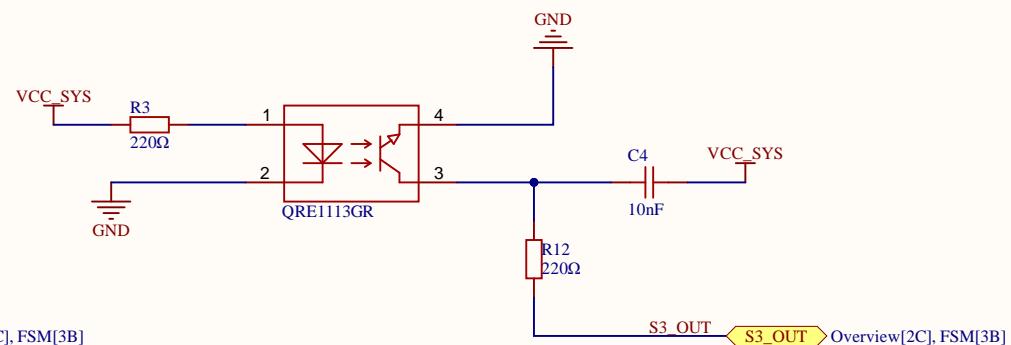
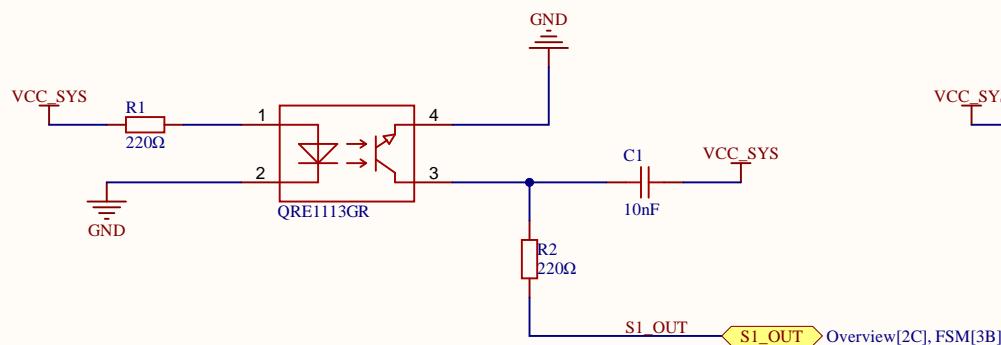


## PMIC

Title		
Size	Number	Revision
A3		
Date: 1/15/2026 File: C:\myrepo\POWER.SchDoc	Sheet of 1	Drawn By:

A

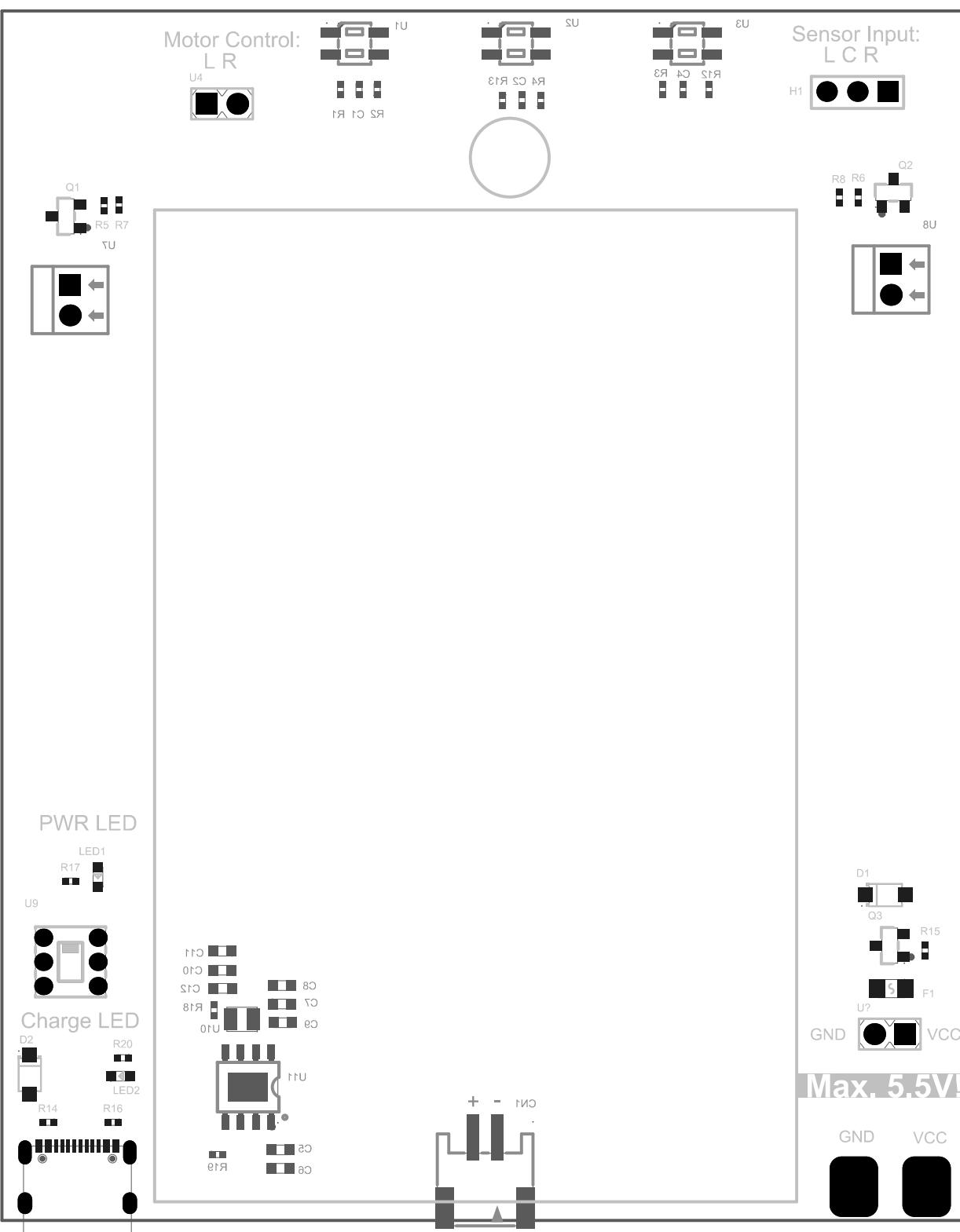
$$R = (V_{CC} - V_F) / I_F = (5V - 1.6V) / 0.02A = 170\Omega$$



V<sub>CC\_SYS</sub> Overview[1C], OpAmp[2A], POWER

# Digital Sensor

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



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 卧贴 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_L2.7-W1.8_LS3-8-RD	DSK24	2
BSMD0805L-200	6V 2A 0.09Ω 低恢复	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_P2-54mm 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型200-350 PNP 电流:1.5A 电压:25V 该PNP 双极晶体管适用于 线性放大开关应用。 此器件采用SOT-23 封装。适用于低功 率表面贴装应用。	O1, O2	SOT-23_L2.9-W1.3-P1.90-LS2 4-BR	SS8550-Y2	2
AO3401A	1/3个沟道耐压 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、与贴片机匹配，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	100Ω 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 75Ω ±100ppm/°C Thick Film Resistor ±1% 0402 Chip Resistor . Surface Mount ROHS	R20	R0402	2kΩ	1
ORE1113	由塑料矩形盒体 中与兼容硅光电器 体管并排封装的 940nm 发射极组成，采用 表面贴装和通孔连 接。	U1, U2, U3	OPTO-SMD_ORE1113GR	ORE1113GR	3
HX PZ2.54-1x2P ZZ		U4, U7	HDR-TH_2P-P2.54-V-M-2	HX PZ2.54-1x2P ZZ	2
WJ500V-5.08-2P-13-00A	2.54 screw terminal	U7, U8	CONN-TH_DB125-2.54-2P-GN-S	DORABO DB125-2.54-2P-GN-S	2
P5-5836DV-B-6PL	高头斜柄自锁.行程1.0mm.按动力250gF	U9	SW-TH_6P-L5.8-W5.8-2P-0.5-6PL	P5-5836DV-B-6PL	1
1uH	1uH	U10	IND-SMD_L2.5-W2.0_WPN252012H	WPN252012HROMT	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-L5.6-0-BL-EP	IP5306	1
TYPE-C 16PIN ZMD(073)	16pin type-c	USB1	USB-C-SMD_TYPE-C-6PIN-2MD-073	TYPE-C 16PIN ZMD(073)	1