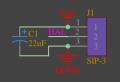


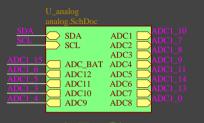


## **MPU6050**





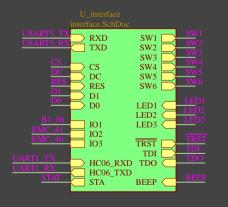




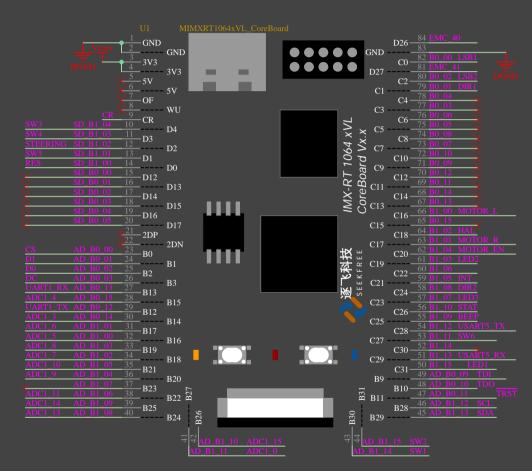
## **ADC**



#### **PWM**

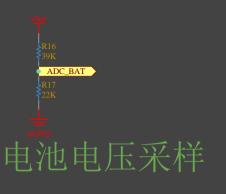


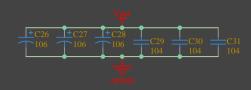
UI

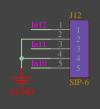




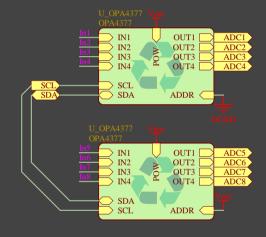
Title <b>iM</b> a	g Motherboard		
Size A4	Number		Revision v1.0
Date:	3/23/2020	Sheet of	l
File:	G:\SmartCar\\top.SchDoc	Drawn By:	







# 前瞻











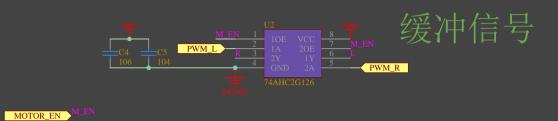
左

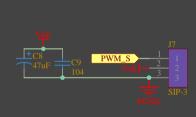


石

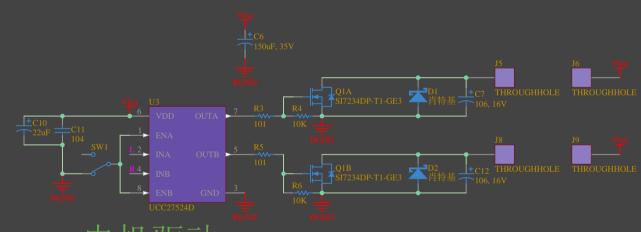
	J16  6 6 In12  5 5 ADC12  1 1 In9  ADC9  A
l	逐飞运放模块

Title			
Size	Number		Revision
A4			
Date:		Sheet of	
File:	G:\SmartCar\\analog.SchDoc	Drawn By:	





舵机接口



电机驱动

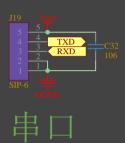
Title			
Size	Number		Revision
A4			
Date:	3/23/2020	Sheet of	
File:	G:\SmartCar\\driver.SchDoc	Drawn By:	

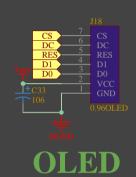
2

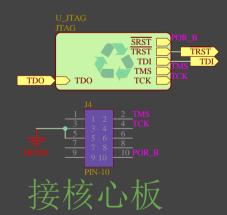




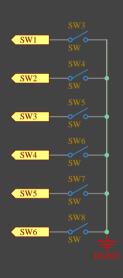
# 蓝牙

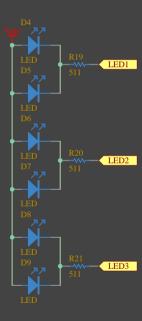




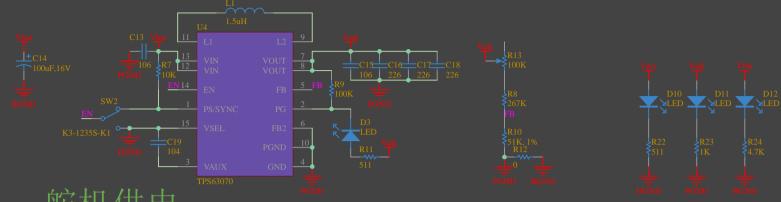


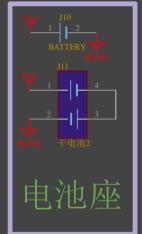




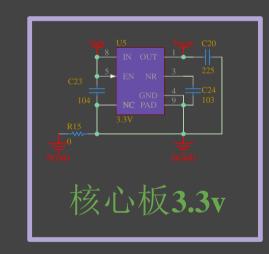


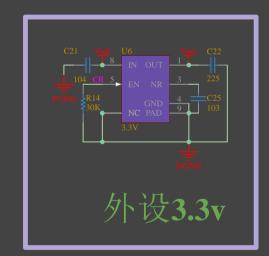
		I





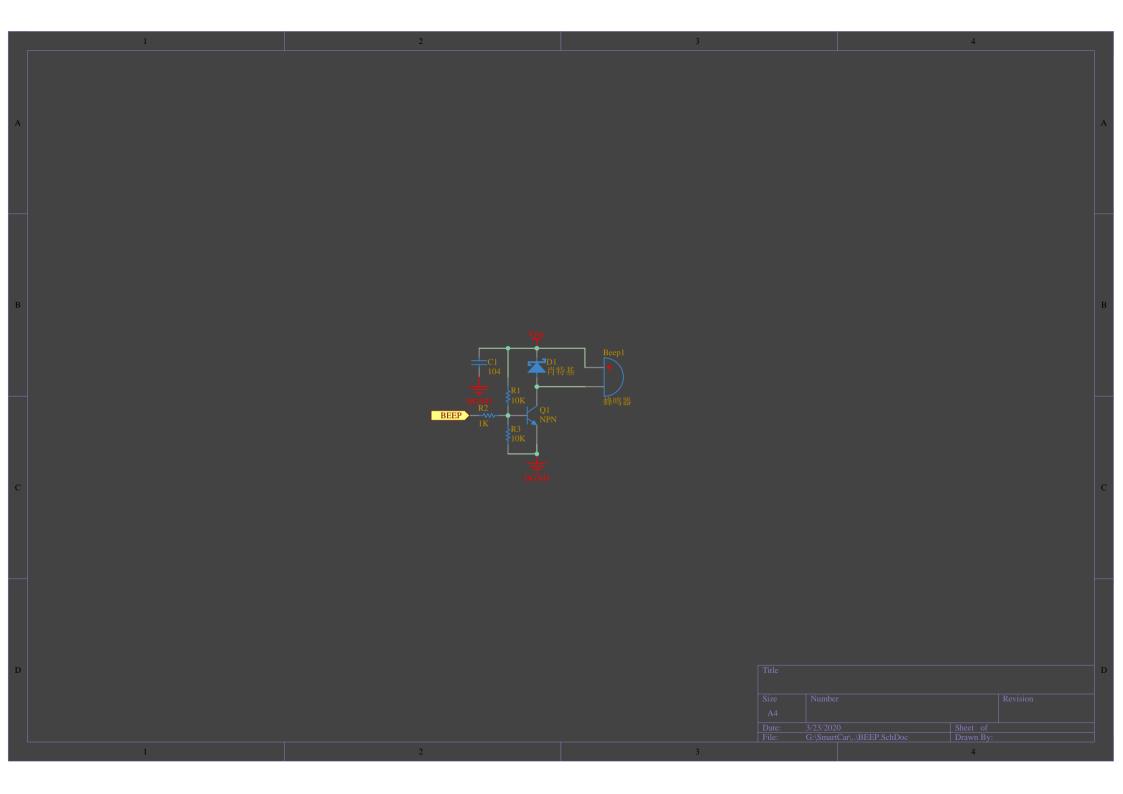


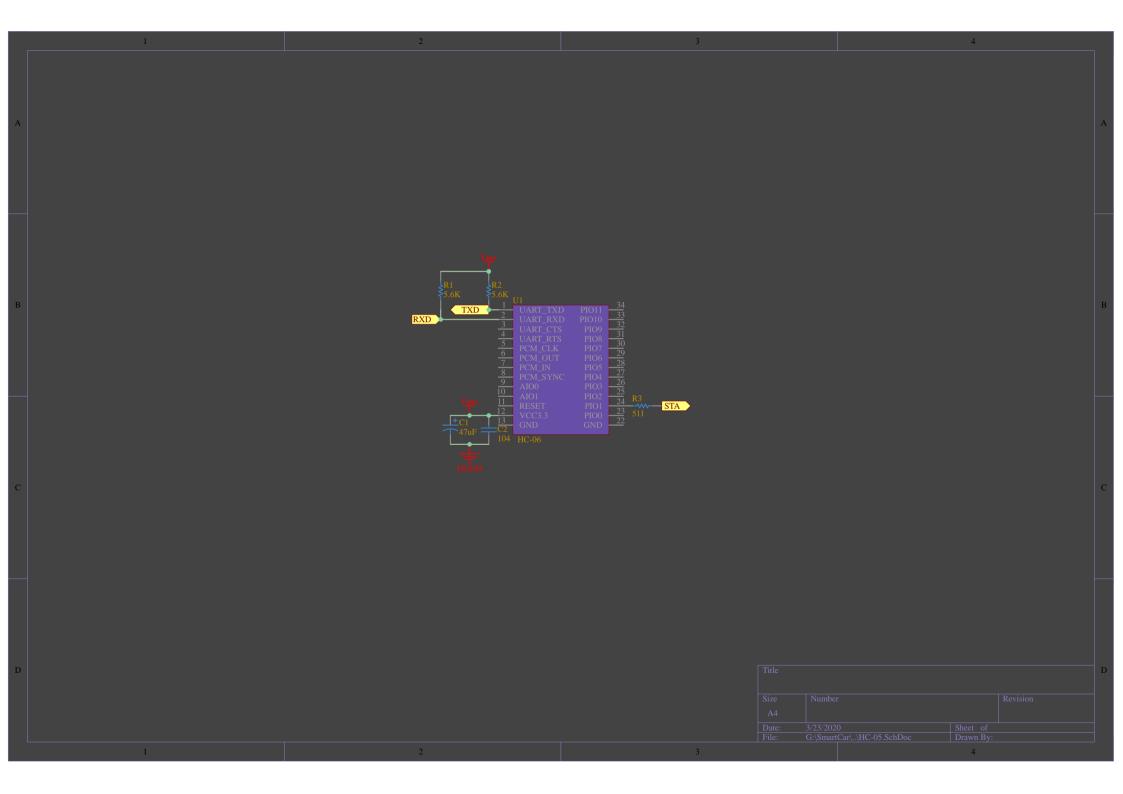


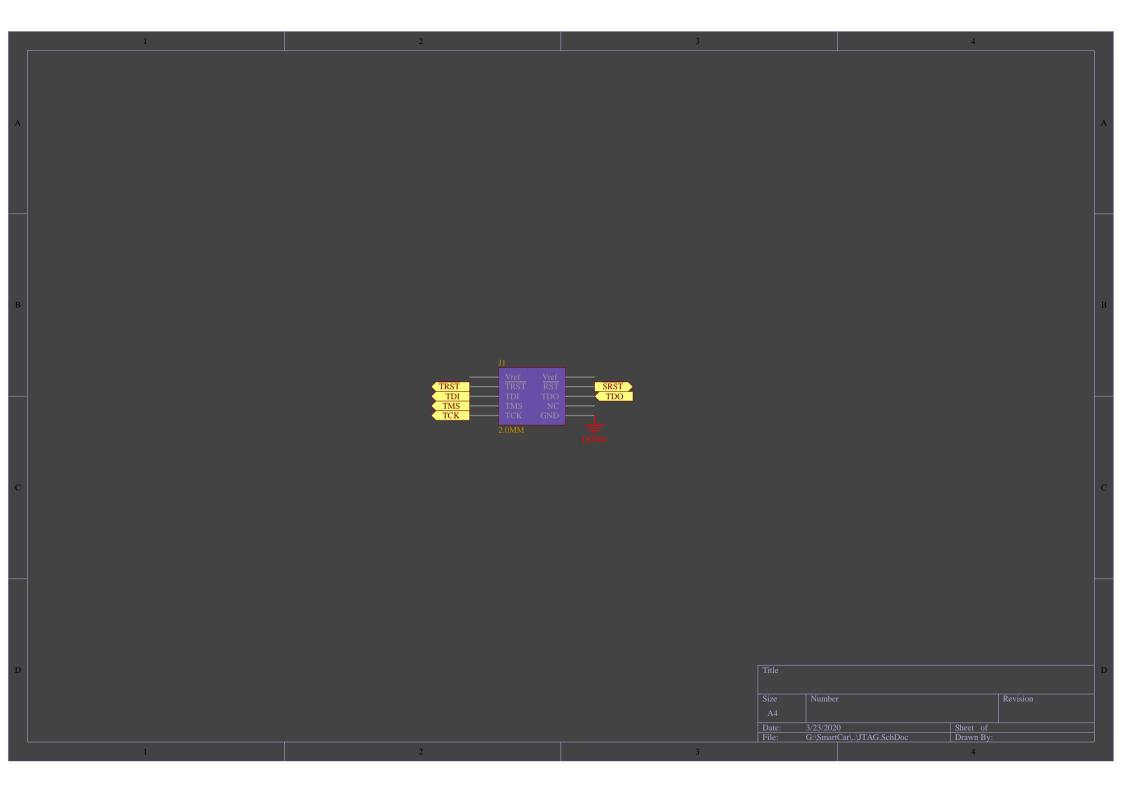


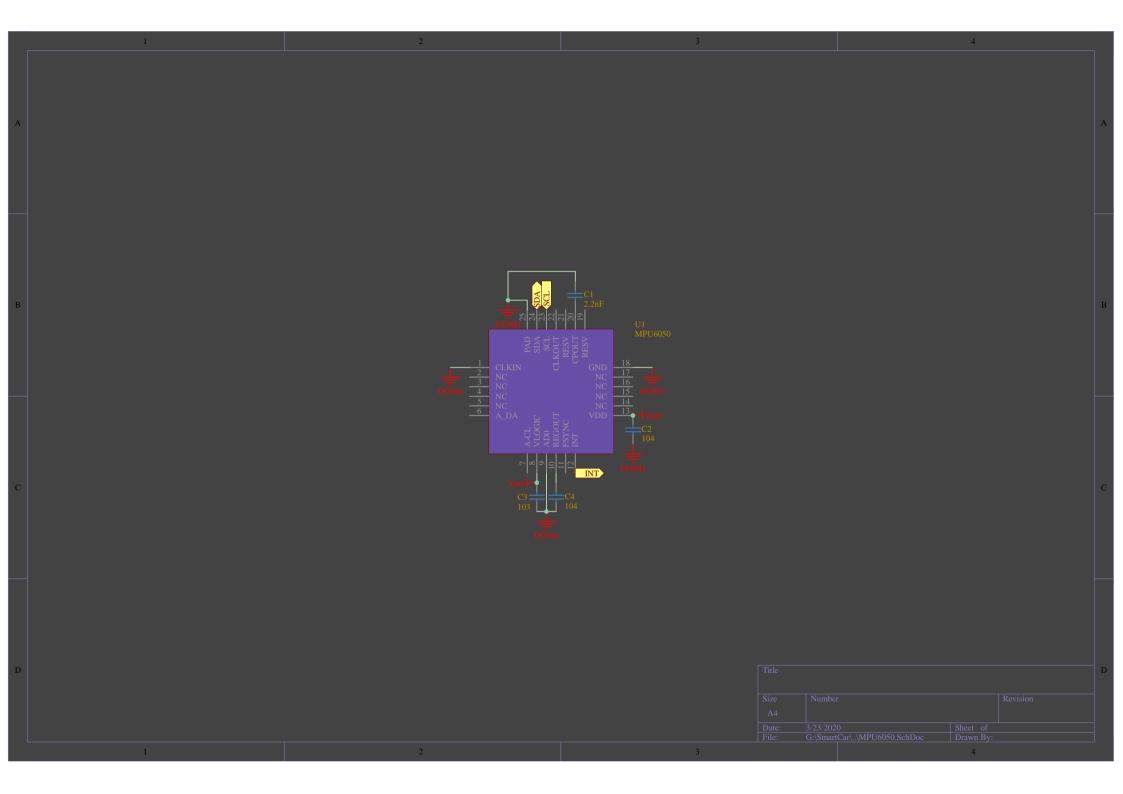
COREREADY

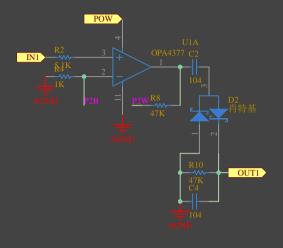
外设使能

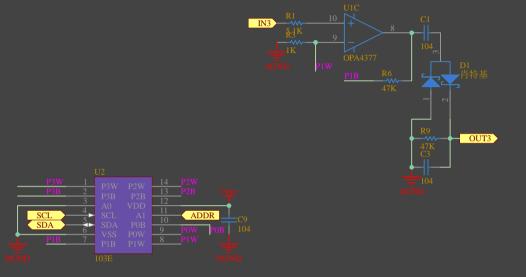


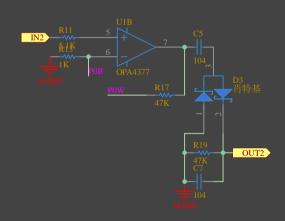


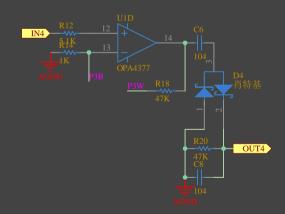


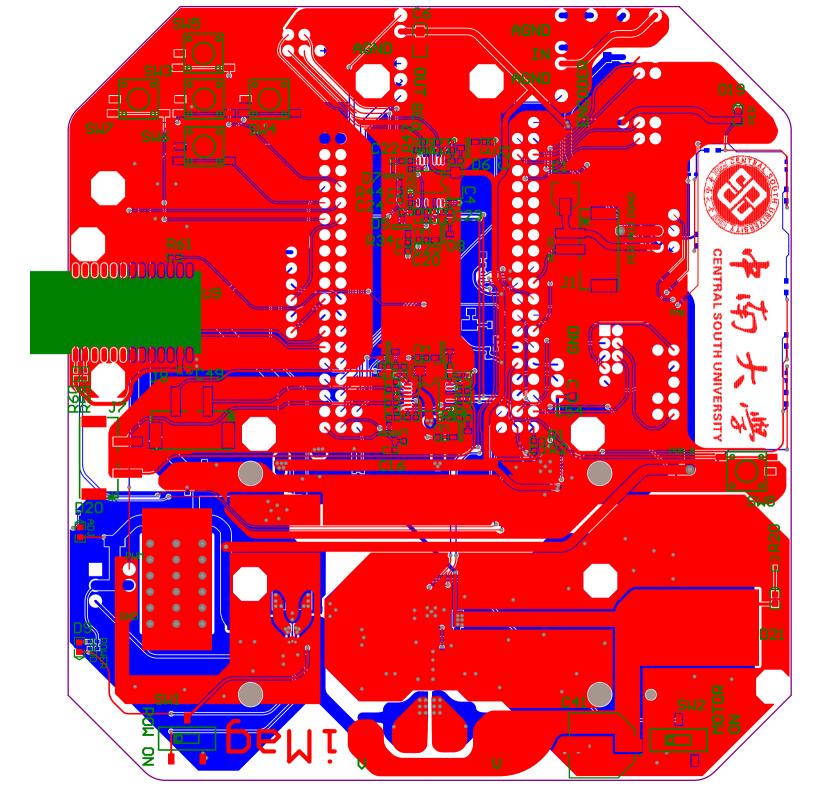












Comment	Description	Designator	Footprint	LibRef	Quantity
蜂鸣器	Dalasiand Consolter	Beep1	Beep-5.0*5.0	蜂鸣器	
22uF	Polarized Capacitor (Axial)	C1, C45	贴片电解 4*5.4	电解电容	
106	Polarized Capacitor (Axial)	C2, C3, C4, C5, C6, C55	3216-ce	电解电容	
104	Capacitor	C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C32, C34, C36, C40, C44, C46, C49, C51, C53, C56,	C0402	电容	3
104	Connector	C57, C58 C26, C28, C39, C54	C0403	th size	
106	Capacitor Polarized Capacitor		C0603	电容	
100uF,16V	(Axial)	C27	贴片电解 6.3*5.4	电解电容	
226	Capacitor	C29, C30, C31	0805C	电容	
225	X5R Capacitor	C33, C35	C0603	电容	
103	Capacitor	C37, C38, C52	C0402	电容	
150uF, 35V	Polarized Capacitor (Axial)	C41	贴片电解 10*10.5	电解电容	
106, 16V	Polarized Capacitor (Axial)	C42, C47	贴片电解 6.3*5.4	电解电容	
47uF	Polarized Capacitor (Axial)	C43, C48	贴片电解 6.3*5.4	电解电容	
2.2nF	Capacitor	C50	C0402	电容	
		D1, D2, D3, D4, D5,			
肖特基		D6, D7, D8	SOT-23	BAT54S	
LED	LED	D9	LED 0603R	LED	
肖特基	Schottky Diode	D10, D11, D18	SOD-123F	肖特基	
		D12, D13, D14, D15,	LED-SMD_L1.7-		
LED	LED	D16, D17	W0.6-RD	LED	
LED	LED	D19	LED 0603Y	LED	
LED	LED	D20	LED 0603G	LED	
LED	LED	D21	LED 0603B	LED	
SIP-3		J1, J7, J8	XH2.54-3SMD	SIP-3	
SIP-6		J2, J3, J6, J20	2.54简易牛角座6P	SIP-6	
PIN-10		J4	JTAG_10P	PIN-10	
SIP-6		J5, J19	2.54排针1X5	SIP-5	
IN		J9	2.54排针1X6	SIP-6	
OUT		J10	2.54排针1X6	SIP-6	
BATTERY		J11	T接头	BATTERY	
干电池2		J12	18650x2	干电池2	
THROUGHHOLE		J13, J14, J16, J17	MOTOR	MOTOR	
SIP-3		J15	2.54排针1X3	SIP-3	
0.96OLED		J18	OLED 0.96	OLED_SPI	
2.0MM		J21	IDC-10P	JTAG-10P	
1.5uH	4.6A, 14.4mOhm	L1	L5X5	贴片电感	
SI7234DP-T1-GE3	CQ-BS170	Q1	DFN-8EP2	N沟道MOSFET	
NPN	NPN Bipolar	Q2	SOT-23	NPN	
4.7K	Transistor	D1 D2 D20	D0400	do 70	
	Resistor	R1, R2, R20	R0402	电阻	
39K	Resistor	R3	R0402	电阻	
22K	Resistor	R4	R0402	电阻	
0	Resistor	R5, R51, R54	R0603	电阻	
		R6, R7, R16, R17, R26,	R0402	电阻	
5.1K	Posistor	R27, R36, R37	110402	- 100	
5.1K	Resistor				
	Resistor	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66	R0402	电阻	1
1K	Resistor	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66			1
5.1K 1K 511		R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64	R0402	电阻	
1K	Resistor	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15,			1
1K	Resistor	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15, R22, R23, R24, R25,			1
1K 511	Resistor Resistor	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15, R22, R23, R24, R25, R31, R33, R34, R35,	R0402	电阻	1
1K 511	Resistor Resistor	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15, R22, R23, R24, R25, R31, R33, R34, R35, R42, R43, R44, R45	R0402	电阻	1
1K 511 47K	Resistor Resistor	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15, R22, R23, R24, R25, R31, R34, R34, R35, R42, R43, R44, R45 R46, R56, R58, R65,	R0402	电阻	1
1K 511 47K	Resistor Resistor Resistor	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15, R22, R23, R24, R25, R31, R33, R34, R35, R42, R43, R44, R45 R46, R56, R58, R65, R67	R0402 R0402 R0402	电阻电阻	1
1K 511 47K 10K 267K	Resistor Resistor Resistor Resistor Resistor	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15, R22, R23, R24, R25, R31, R33, R34, R35, R42, R43, R44, R45 R46, R56, R58, R65, R67	R0402 R0402 R0402 R0402	电阻电阻电阻电阻	1
1K 511 47K 10K 267K 100K	Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15, R22, R23, R24, R25, R31, R33, R34, R35, R42, R43, R44, R45 R46, R56, R58, R65, R67 R47 R48	R0402 R0402 R0402 R0402 R0402 R0402	电阻电阻电阻电阻电阻	1
11K 511 47K 10K 267K 100K 51K, 1%	Resistor Resistor Resistor Resistor Resistor	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15, R22, R23, R24, R25, R42, R43, R44, R45 R46, R56, R58, R65, R67 R47 R48	R0402 R0402 R0402 R0402 R0402 R0402 R0402 R0402 R0402	电阻电阻电阻电阻电阻电阻电阻电阻电阻电阻电阻电阻电阻	1
11K 511 47K 10K 2267K 100K 51K, 1% 100K	Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15, R22, R23, R24, R25, R31, R33, R34, R35, R42, R43, R44, R45 R46, R56, R58, R65, R67 R47 R48	R0402	电阻 电	1
11K 511 47K 47K 10K 5267K 100K 51K, 1% 100K 30K	Resistor	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15, R22, R23, R24, R25, R42, R43, R44, R45 R46, R56, R58, R65, R67 R47 R48 R49 R49 R49 R49 R49 R49 R49 R49 R49 R49	R0402 R0402 R0402 R0402 R0402 R0402 R0402 3296W R0402	电阻 电阻 电阻 电阻 电阻阻 电阻阻 电电阻 电电阻	1
11K 511 10K 267K 100K 5151K.1% 100K 50K 100K 50K	Resistor	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15, R22, R23, R24, R25, R31, R33, R34, R35, R42, R43, R44, R45 R46, R56, R58, R65, R67 R47 R48 R49 R49 R49 R52 R53 R55, R57	R0402  R0402  R0402  R0402  R0402  R0402  R0402  3296W  R0402  R0402  R0403	电阻 电阻 电阻 电阻 电阻阻 电阻阻 电阻阻电阻阻 电阻阻电阻阻电阻阻电阻阻电	1
11K 47K 47K 110K 2267K 100K 51K, 1% 100K 30K 101	Resistor	R8, R9, R12, R18, R19, R28, R29, R38, R39, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15, R22, R23, R24, R25, R31, R33, R34, R35, R42, R43, R44, R45 R47, R47, R48, R49, R48, R49, R49, R48, R49, R49, R55, R57 R55, R57	R0402  R0402  R0402  R0402  R0402  R0402  R0402  R0402  R0603  R0603	电阻 电阻 电阻 电电阻 电电阻 电电阻阻电电阻阻电电阻阻电电电阻阻电电电阻	1
11K 47K 47K 110K 2267K 100K 51K, 1% 100K 30K 101	Resistor	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15, R21, R22, R23, R24, R25, R31, R33, R34, R35, R42, R43, R44, R45 R46, R56, R58, R65, R67 R47 R48 R49 R52 R55, R57 R59, R60	R0402  R0402  R0402  R0402  R0402  R0402  R0402  R0402  R0402  R0603  R0402  R0603  R0402	电阻 电阻 电阻 电阻 电阻阻 电阻阻 电阻阻电阻阻 电阻阻电阻阻电阻阻电阻阻电	1
11K 511 10K 10K 10K 51K, 18, 100K 51K, 18, 100K 30K 101 6.6K 83-1235S-K1	Resistor	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15, R22, R23, R24, R25, R31, R33, R34, R35, R42, R43, R44, R45 R45, R64, R65, R67, R67, R67, R67, R67, R67, R67, R67	R0402 R0402 R0402 R0402 R0402 R0402 R0402 R0402 R0402 R0403 R0403 R0403 R0403 R0403 R0403 R0403 R0403 R0403 R0403 R0403 R0404 R0403	电阻 电阻 电阻 电电阻电电阻电电阻电电阻电电阻 电阻阻电电阻 电阻阻电电阻 电阻阻电电阻 电阻阻电电阻	1
11K 511 10K 267K 100K 51K, 1% 100K 30K 101 5.6K 83-1235S-K1	Resistor  Switch  Single-Pole, Single-Throw Switch	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15, R21, R22, R23, R24, R25, R31, R33, R34, R35, R42, R43, R44, R45 R46, R56, R58, R65, R67 R47 R48 R49 R52 R55, R57 R59, R60	R0402  R0402  R0402  R0402  R0402  R0402  R0402  R0402  R0402  R0603  R0402  R0603  R0402	电阻 电阻 电阻 电电阻 电电阻 电电阻阻电电阻阻电电阻阻电电电阻阻电电电阻	1
1K 511 47K	Resistor	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15, R22, R23, R24, R25, R31, R33, R34, R35, R42, R43, R44, R45 R45, R64, R65, R67, R67, R67, R67, R67, R67, R67, R67	R0402 R0402 R0402 R0402 R0402 R0402 R0402 R0402 R0402 R0403 R0403 R0403 R0403 R0403 R0403 R0403 R0403 R0403 R0403 R0403 R0404 R0403	电阻 电阻 电阻 电电阻电电阻电电阻电电阻电电阻 电阻阻电电阻 电阻阻电电阻 电阻阻电电阻 电阻阻电电阻	1
1K  511  47K  10K  267K  100K  51K, 1%  100K  51K, 1%  101  5.6K  K3-1235S-K1  SW  MIMXRT1064xVL_CoreBoard	Resistor  Switch  Switch  Switch  Switch  Throw Switch  逐飞科技小MX  RT1064接心板整体原	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15, R113, R14, R15, R21, R22, R23, R24, R25, R31, R33, R34, R35, R42, R43, R44, R45 R46, R56, R58, R65, R67 R47 R48 R49 R52 R53 R55, R57 R59, R60 SW1, SW4, SW5, SW6, SW7, SW8	R0402 R0402 R0402 R0402 R0402 R0402 3296W R0402 3296W R0402 R0603 R0402 张31255-K1 禁輸开关6.2°6.2(5p) SMIMMRT1064xVL_Cor eBoard	电阻 电	1
11K 47K 47K 47K 47K 10K 267K 100K 51K, 1% 100K 51K, 1% 101 5.6.6K (3-1235S-K1 50K MIMMXRT1064xVL_CoreBoard	Resistor	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15, R22, R23, R24, R25, R21, R33, R34, R35, R42, R43, R44, R45 R45, R64 R47 R48 R49 R55 R57 R59, R60 SW1, SW2 SW3, SW4, SW5, SW6, SW7, SW8	R0402  R0402  R0402  R0402  R0402  R0402  R0402  R0402  R0402  R0403  R0402  R0603  R0402  K3-1235S-K1  轻触开关6.2*6.2(5p)  SMD  MIMXRT1064xVL_Core R080rd  TSSOP-14	电阻 电	1
11K 47K 47K 47K 10K 2267K 100K 51K.1% 100K 330K 101 105 105 105 105 105 105 105 105 105	Resistor  Switch  Single-Pole, Single-Throw Switch  逐飞科技、MX  逐飞科技、MX  理、可直接使用	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15, R22, R23, R24, R25, R23, R34, R35, R42, R43, R44, R45 R40, R40, R40, R40, R40, R40, R40, R40,	R0402  R0402  R0402  R0402  R0402  R0402  R0402  R0402  R0402  R0403  R0402  K3-1235S-K1  装触开关6.2°6.2(5p)  SMID  MIMXRT1064xVL_Core  Board  TSSOP-14  VQFN-15	电阻 电	1
11K 47K 47K 47K 10K 2267K 100K 51K.1% 100K 330K 101 105 105 105 105 105 105 105 105 105	Resistor  Resis	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15, R22, R23, R24, R25, R21, R33, R34, R35, R42, R43, R44, R45 R45, R64 R47 R48 R49 R55 R57 R59, R60 SW1, SW2 SW3, SW4, SW5, SW6, SW7, SW8	R0402  R0402  R0402  R0402  R0402  R0402  R0402  R0402  R0402  R0403  R0402  R0603  R0402  K3-1235S-K1  轻触开关6.2*6.2(5p)  SMD  MIMXRT1064xVL_Core R080rd  TSSOP-14	电阻 电	1
11K  110K  1267K  100K  100K  100K  1010  100K  30K  101  105.64  103-1235S-K1  SW  MIMMXRT1064xVL_Core  Beloard  OPA4377  TPS63070  3.34V	Resistor  Switch  Single-Pole, Single-Throw Switch  逐飞科技、MX  逐飞科技、MX  理、可直接使用	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15, R22, R23, R24, R25, R31, R33, R34, R35, R42, R43, R44, R45 R47 R47 R47 R48 R49 R52 R53 R55, R57 R57 R59, R60 SW1, SW2 SW3, SW4, SW5, SW6, SW7, SW8	R0402 R0402 R0402 R0402 R0402 R0402 R0402 R0402 R0402 R0403 R0403 R0403 R0403 R0403 MIMXRT1064xVL_CoreBoard VGFN-15 VSON-8	电阻 电	1
11K  110K  1267K  100K  100K  100K  1010  100K  30K  101  105.64  103-1235S-K1  SW  MIMMXRT1064xVL_Core  Beloard  OPA4377  TPS63070  3.34V	Resistor  Resis	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15, R22, R23, R24, R25, R23, R34, R35, R42, R43, R44, R45 R40, R40, R40, R40, R40, R40, R40, R40,	R0402  R0402  R0402  R0402  R0402  R0402  R0402  R0402  R0402  R0403  R0402  K3-1235S-K1  装触开关6.2°6.2(5p)  SMID  MIMXRT1064xVL_Core  Board  TSSOP-14  VQFN-15	电阻 电	1
11K  47K  47K  47K  47K  47K  47K  47K	Resistor  Switch  Switch  Switch  Throw Switch  正 飞科技·MX  正 飞科技·MX  正 可直接使用  No Description  Available	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15, R22, R23, R24, R25, R31, R33, R34, R35, R42, R43, R44, R45 R47 R47 R47 R48 R49 R52 R53 R55, R57 R57 R59, R60 SW1, SW2 SW3, SW4, SW5, SW6, SW7, SW8	R0402 R0402 R0402 R0402 R0402 R0402 R0402 R0402 R0402 R0403 R0403 R0403 R0403 R0403 MIMXRT1064xVL_CoreBoard VGFN-15 VSON-8	电阻 电	1
11K  47K  47K  47K  47K  47K  47K  47K	Resistor  Switch  Single-Pole, Single-Infrow Switch  逐飞科技·MX  RT1064核心板整体原  理. 可直接使用  No Description  Available	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15, R113, R14, R15, R21, R31, R33, R34, R35, R42, R43, R44, R45, R46, R56, R58, R67 R47 R48 R49 R52 R53 R55, R57 R59, R60 SW1, SW2 SW3, SW4, SW5, SW6, SW7, SW8 U1 U2, U3 U4 U5, U6	R0402 R0603 R0402 R0403 R0402 R0403 R0402 R0403 R0403 R0402 R0403 R0403 R0402 R0403 R040	电阻 电	1
11K  47K  10K  267K  100K  51K, 1%  100K  51K, 1%  101  5.6K  43-1235S-K1  SW  MIMXRT1064xVL_Cor	Resistor  Switch  Switch  Switch  Throw Switch  正 飞科技·MX  正 飞科技·MX  正 可直接使用  No Description  Available	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66 R10, R50, R61, R62, R63, R64 R11, R13, R14, R15, R114, R15, R14, R15, R21, R22, R23, R24, R25, R31, R33, R34, R35, R42, R43, R44, R45 R46, R56, R58, R65, R67 R47 R48 R49 R52 R55, R57 R59, R60 SW1, SW2, SW4, SW5, SW6, SW7, SW8, SW1, SW4, SW5, SW6, SW7, SW8	R0402  R0402  R0402  R0402  R0402  R0402  R0402  R0402  R0402  R0403  R0402  R0403  R0402  R0503  R0402  K3-12355-K1  茶練开关6.2*6.2(5p)  SMD  MIMXRT1064xVL_CoreBoard  TSOP-14  VSON-8  VSSOP-8	电阻 电	1