Designator	Comment	Footprint	Quantity
AUX-1	Header 4X2	DC8P	1
C1	100uF	RVT	1
C2	0.1uF	C0603	1
C3	0.1uF	C0603	1
C4	220uF	RVT	1
C5	100uF	RVT	1
C6	0.1uF	C0603	1
C7	10uF/25V	C0805	1
C8	10uF/25V	C0805	1
C9	150pF	C0603	1
C10	0.1uF	C0603	1
C11	0.1uF	C0603	1
C12	0.1uF	C0603	1
C13	0.1uF	C0603	1
C14	0.1uF	C0603	1
C15	22pF	C0603	1
C16	10pF	C0603	1
C17	22pF	C0603	1
C18	10pF	C0603	1
C19	0.1uF	C0603	1
C20	0.1uF	C0603	1
C21	0.1uF/NL	C0603	1
C22	0.1uF	C0603	1
C23	1uF	C0603	1
C24	0.1uF	C0603	1
C25	0.1uF	C0603	1
C26	0.1uF	C0603	1
C27	0.1uF	C0603	1
C28	0.1uF	C0603	1
C29	10uF/25V	C0805	
C30	10uF/25V	C0805	1 1
C32_M1	100r/25V	RVT	1
	100uF	RVT	1
C32_M2 C32_M3		RVT	+
C32_M4	100uF 100uF	RVT	1
C32_M4			1
	1nF	C0603 C0603	1
C34 C35_M1	1nF		
	100nF	C0603	1
C35_M2	100nF	C0603	1 1
C35_M3	100nF	C0603 C0603	1
C35_M4	100nF	C0603	
C36_M1	100nF		1
C36_M2	100nF	C0603	1 1
C36_M3	100nF	C0603	
C36_M4	100nF	C0603	1
C37_M1	22nF	C0603	1
C37_M2	22nF	C0603	1
C37_M3	22nF	C0603	1
C37_M4	22nF	C0603	1
C38_M1	100nF	C0603	1

C38_M3	C38_M2	100nF	C0603	1
C38 M4 100nF C0603 1 1 C39 M1 100nF C0603 1 1 C39 M3 100nF C0603 1 1 C39 M4 100nF C0603 1 1 C39 M3 1 1 C39 M3 100nF C0603 1 1 C30 LED LED C0603 1 1 C30 LED C0603 1	_			1
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C39_M3	_	100nF	C0603	1
C39_M4 100nF C0603 1 D1 SMA-S1G-1A D-SMA 1 D2 S1A-13-F D-SMA 1 D3 LED LED0603 1 D4 B340A-13-F D-SMA 1 D5 SS14 SOD-123 1 D6 LED LED0603 1 D7 LED LED0603 1 D8 LED LED0603 1 D9 LED LED0603 1 D11 LED LED0603 1 D11 LED LED0603 1 Ender3-EXP1 Header 5X2 DC10P 1 EMP1 Header 5X2 DC10P 1 EXP2 Header 5X2 DC10P 1 F2 15A F1206 1 F2 15A F1206 1 F3 1.5A L1812 1 FAN Header 2 XH-2A 1				1
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D8				1
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J5 Header 2 XH-2A 1 J6 Header 3 HDR1X3 1 J7 XH-2A XH-2A 1 J8 XH-2A XH-2A 1 J9 XH-2A XH-2A 1 J10 Z+ XH-3A 1 J11_M1 Header 3 HDR1X3 1 J11_M2 Header 3 HDR1X3 1 J11_M3 Header 3 HDR1X3 1 J11_M4 Header 3 HDR1X3 1 J11_M4 Header 3 HDR1X3 1 J13 Header 3 HDR1X3 1 J18 XH-3A XH-3A 1 J19 XH-2A XH-2A 1 J21 XH-2A XH-2A 1 J21_M1 Header 2 HDR1X2 1 Jc1_M2 Header 2 HDR1X2 1 Jc1_M4 Header 2 HDR1X2 1 Jc1_M4 Header 4H XH-4A 1 JM1_M1 Header 4H XH-4A 1				1
J6 Header 3 HDR1X3 1 J7 XH-2A XH-2A 1 J8 XH-2A XH-2A 1 J9 XH-2A XH-2A 1 J10 Z+ XH-3A 1 J11_M1 Header 3 HDR1X3 1 J11_M2 Header 3 HDR1X3 1 J11_M3 Header 3 HDR1X3 1 J11_M4 Header 3 HDR1X3 1 J13 Header 3 HDR1X3 1 J18 XH-3A XH-3A 1 J19 XH-2A XH-3A 1 J19 XH-2A XH-2A 1 J21 XH-2A XH-2A 1 Jc1_M1 Header 2 HDR1X2 1 Jc1_M2 Header 2 HDR1X2 1 Jc1_M3 Header 2 HDR1X2 1 Jc1_M4 Header 2 HDR1X2 1 JM1_M1 Header 4H XH-4A 1 JM1_M2 Header 4H XH-4A 1				1
J7 XH-2A XH-2A 1 J8 XH-2A XH-2A 1 J9 XH-2A XH-2A 1 J10 Z+ XH-3A 1 J11_M1 Header 3 HDR1X3 1 J11_M2 Header 3 HDR1X3 1 J11_M3 Header 3 HDR1X3 1 J11_M4 Header 3 HDR1X3 1 J13 Header 3 HDR1X3 1 J18 XH-3A XH-3A 1 J19 XH-2A XH-2A 1 J21 XH-2A XH-2A 1 J21_M1 Header 2 HDR1X2 1 Jc1_M2 Header 2 HDR1X2 1 Jc1_M3 Header 2 HDR1X2 1 Jc1_M4 Header 2 HDR1X2 1 JM1_M1 Header 4H XH-4A 1 JM1_M2 Header 4H XH-4A 1				1
J8 XH-2A XH-2A 1 J9 XH-2A XH-2A 1 J10 Z+ XH-3A 1 J11_M1 Header 3 HDR1X3 1 J11_M2 Header 3 HDR1X3 1 J11_M3 Header 3 HDR1X3 1 J11_M4 Header 3 HDR1X3 1 J13 Header 3 HDR1X3 1 J13 Header 3 HDR1X3 1 J18 XH-3A XH-3A 1 J19 XH-2A XH-2A 1 J21 XH-2A XH-2A 1 J21_M1 Header 2 HDR1X2 1 Jc1_M2 Header 2 HDR1X2 1 Jc1_M3 Header 2 HDR1X2 1 Jc1_M4 Header 2 HDR1X2 1 JM1_M1 Header 4H XH-4A 1 JM1_M2 Header 4H XH-4A 1				1
J9 XH-2A XH-2A 1 J10 Z+ XH-3A 1 J11_M1 Header 3 HDR1X3 1 J11_M2 Header 3 HDR1X3 1 J11_M3 Header 3 HDR1X3 1 J11_M4 Header 3 HDR1X3 1 J13 Header 3 HDR1X3 1 J18 XH-3A XH-3A 1 J18 XH-3A XH-3A 1 J19 XH-2A XH-2A 1 J21 XH-2A XH-2A 1 J21_M1 Header 2 HDR1X2 1 Jc1_M2 Header 2 HDR1X2 1 Jc1_M3 Header 2 HDR1X2 1 Jc1_M4 Header 2 HDR1X2 1 JM1_M1 Header 4H XH-4A 1 JM1_M2 Header 4H XH-4A 1				1
J10 Z+ XH-3A 1 J11_M1 Header 3 HDR1X3 1 J11_M2 Header 3 HDR1X3 1 J11_M3 Header 3 HDR1X3 1 J11_M4 Header 3 HDR1X3 1 J13 Header 3 HDR1X3 1 J18 XH-3A XH-3A 1 J19 XH-2A XH-2A 1 J21 XH-2A XH-2A 1 J21_M1 Header 2 HDR1X2 1 Jc1_M2 Header 2 HDR1X2 1 Jc1_M3 Header 2 HDR1X2 1 Jc1_M4 Header 2 HDR1X2 1 JM1_M1 Header 4H XH-4A 1 JM1_M2 Header 4H XH-4A 1				1
J11_M1 Header 3 HDR1X3 1 J11_M2 Header 3 HDR1X3 1 J11_M3 Header 3 HDR1X3 1 J11_M4 Header 3 HDR1X3 1 J13 Header 3 HDR1X3 1 J18 XH-3A XH-3A 1 J19 XH-2A XH-2A 1 J21 XH-2A XH-2A 1 J21_M1 Header 2 HDR1X2 1 Jc1_M2 Header 2 HDR1X2 1 Jc1_M3 Header 2 HDR1X2 1 Jc1_M4 Header 2 HDR1X2 1 JM1_M1 Header 4H XH-4A 1 JM1_M2 Header 4H XH-4A 1				1
J11_M2 Header 3 HDR1X3 1 J11_M3 Header 3 HDR1X3 1 J11_M4 Header 3 HDR1X3 1 J13 Header 3 HDR1X3 1 J18 XH-3A XH-3A 1 J19 XH-2A XH-2A 1 J21 XH-2A XH-2A 1 Jc1_M1 Header 2 HDR1X2 1 Jc1_M2 Header 2 HDR1X2 1 Jc1_M3 Header 2 HDR1X2 1 Jc1_M4 Header 2 HDR1X2 1 JM1_M1 Header 4H XH-4A 1 JM1_M2 Header 4H XH-4A 1		Header 3		1
J11_M3 Header 3 HDR1X3 1 J11_M4 Header 3 HDR1X3 1 J13 Header 3 HDR1X3 1 J18 XH-3A XH-3A 1 J19 XH-2A XH-2A 1 J21 XH-2A XH-2A 1 Jc1_M1 Header 2 HDR1X2 1 Jc1_M2 Header 2 HDR1X2 1 Jc1_M3 Header 2 HDR1X2 1 Jc1_M4 Header 2 HDR1X2 1 JM1_M1 Header 4H XH-4A 1 JM1_M2 Header 4H XH-4A 1	_			1
J11_M4 Header 3 HDR1X3 1 J13 Header 3 HDR1X3 1 J18 XH-3A XH-3A 1 J19 XH-2A XH-2A 1 J21 XH-2A XH-2A 1 Jc1_M1 Header 2 HDR1X2 1 Jc1_M2 Header 2 HDR1X2 1 Jc1_M3 Header 2 HDR1X2 1 Jc1_M4 Header 2 HDR1X2 1 JM1_M4 Header 4H XH-4A 1 JM1_M2 Header 4H XH-4A 1	_			1
J13 Header 3 HDR1X3 1 J18 XH-3A XH-3A 1 J19 XH-2A XH-2A 1 J21 XH-2A XH-2A 1 Jc1_M1 Header 2 HDR1X2 1 Jc1_M2 Header 2 HDR1X2 1 Jc1_M3 Header 2 HDR1X2 1 Jc1_M4 Header 2 HDR1X2 1 JM1_M4 Header 4H XH-4A 1 JM1_M2 Header 4H XH-4A 1	_			1
J18 XH-3A XH-3A 1 J19 XH-2A XH-2A 1 J21 XH-2A XH-2A 1 Jc1_M1 Header 2 HDR1X2 1 Jc1_M2 Header 2 HDR1X2 1 Jc1_M3 Header 2 HDR1X2 1 Jc1_M4 Header 2 HDR1X2 1 JM1_M4 Header 4H XH-4A 1 JM1_M2 Header 4H XH-4A 1				1
J19 XH-2A XH-2A 1 J21 XH-2A XH-2A 1 Jc1_M1 Header 2 HDR1X2 1 Jc1_M2 Header 2 HDR1X2 1 Jc1_M3 Header 2 HDR1X2 1 Jc1_M4 Header 2 HDR1X2 1 JM1_M4 Header 4H XH-4A 1 JM1_M2 Header 4H XH-4A 1	J18	XH-3A	XH-3A	1
Jc1_M1 Header 2 HDR1X2 1 Jc1_M2 Header 2 HDR1X2 1 Jc1_M3 Header 2 HDR1X2 1 Jc1_M4 Header 2 HDR1X2 1 JM1_M1 Header 4H XH-4A 1 JM1_M2 Header 4H XH-4A 1	J19	XH-2A		1
Jc1_M1 Header 2 HDR1X2 1 Jc1_M2 Header 2 HDR1X2 1 Jc1_M3 Header 2 HDR1X2 1 Jc1_M4 Header 2 HDR1X2 1 JM1_M1 Header 4H XH-4A 1 JM1_M2 Header 4H XH-4A 1		XH-2A	XH-2A	1
Jc1_M3 Header 2 HDR1X2 1 Jc1_M4 Header 2 HDR1X2 1 JM1_M1 Header 4H XH-4A 1 JM1_M2 Header 4H XH-4A 1	Jc1_M1	Header 2	HDR1X2	1
Jc1_M4 Header 2 HDR1X2 1 JM1_M1 Header 4H XH-4A 1 JM1_M2 Header 4H XH-4A 1	Jc1_M2	Header 2	HDR1X2	1
Jc1_M4 Header 2 HDR1X2 1 JM1_M1 Header 4H XH-4A 1 JM1_M2 Header 4H XH-4A 1	Jc1_M3	Header 2	HDR1X2	1
JM1_M1 Header 4H XH-4A 1 JM1_M2 Header 4H XH-4A 1		Header 2		1
JM1_M2 Header 4H XH-4A 1		Header 4H		1
	_	Header 4H		1
	_	Header 4H		1

JM1_M4	Header 4H	XH-4A 1
JM2_M4	Header 4H	XH-4A 1
L1	15uH	L7*7*4
MT_DET	Header 3	XH-3A
POWER1	HG129-2P	HG129-2P 1
PWR	DC-007B电源接口 φ=2.5mm	DC-007B 1
Q1	HY3403	TO-252AA 1
Q2	HY1403	TO-252AA 1
Q3	SS8050	SOT-23 1
R1	1.8K	R0603 1
R2	100K	R0603 1
R3	210K	R0603 1
R4	40.2k	R0603 1
R5	24.9k	R0603 1
R6	100K	R0603 1
R7	100K	R0603 1
R8	100K	R0603 1
R9	10K	R0603 1
R10	10K	R0603 1
R11	10K	R0603 1
R12	1.8K	R0603 1
R13	1.8K	R0603 1
R14	1K	R0603 1
R15	1K	R0603 1
R16	22	R0603 1
R17	22	R0603 1
R18_M1	20K	R0603 1
R18_M2	20K	R0603 1
R18_M3	20K	R0603 1
R18_M4	20K	R0603 1
R19_M1	20K	R0603 1
R19_M2	20K	R0603 1
R19_M3	20K	R0603 1
R19_M4	20K	R0603 1
R20_M1	0.11	R0805
R20_M2	0.11	R0805
R20_M3	0.11	R0805
R20_M4	0.11	R0805
R21_M1	0.11	R0805
R21_M2	0.11	R0805 1
R21_M3	0.11	R0805
R21_M4	0.11	R0805
R22_M1	20K	R0603
R22_M2	20K	R0603
R22_M3	20K	R0603
R22_M4	20K	R0603
R23	0	R0603
R24	100	R0603
R25	100	R0603 1
R26	4.7K	R0603
R27	1K	R0603

R28	100	R0603 1
R29	100	R0603 1
R30	4.7K	R0603 1
R31	4.7K	R0603 1
R32	4.7K	R0603 1
R33	4.7K	R0603 1
R34	1K	R0603 1
R35	1K	R0603 1
R36	1K	R0603 1
R37	1K	R0603 1
R38	4.7K	R0603 1
R39	4.7K	R0603 1
R40	100	R0603 1
R41	100	R0603 1
R42	100	R0603 1
R43_M1	0/NC	R0603 1
R43_M2	0/NC	R0603 1
R43_M3	0/NC	R0603 1
R43_M4	0/NC	R0603 1
R44_M1	0/NC	R0603 1
R44_M2	0/NC	R0603 1
R44_M3	0/NC	R0603 1
R44_M4	0/NC	R0603 1
R45_M1	20K	R0603 1
R45_M2	20K	R0603 1
R45_M3	20K	R0603 1
R45_M4	20K	R0603 1
R46	100K	R0603 1
R47	100K	R0603 1
R48	100K	R0603 1
R49	1.8K	R0603 1
R50	1.8K	R0603 1
R51	1.8K	R0603 1
RPK1	10K	RPACK4 1
RPK3_M1	100	RPACK4 1
RPK3_M2	100	RPACK4 1
RPK3_M3	100	RPACK4 1
RPK3_M4	100	RPACK4 1
RPm1_M1	20K	TRIM 1
RPm1_M2	20K	TRIM 1
RPm1_M3	20K	TRIM 1
RPm1_M4	20K	TRIM 1
Ry1	1M	R0603 1
S1	SWITCH_2P	SMD-260G-3*6*5
SD	microSD	microSD 1
TB	Header 2	XH-2A 1
TH1	Header 2	XH-2A 1
U1	MP1584EN	SOIC8E 1
U2	LM1117-3.3V	SOT223-4N 1
U3	STM32F103RCT6	LQFP64 1
U4	CH340C	SOP16 1

U5_M1	TMC2209-LA	QFN28	1
U5_M2	TMC2209-LA	QFN28	1
U5_M3	TMC2209-LA	QFN28	1
U5_M4	TMC2209-LA	QFN28	1
Y1	8M	Υ	1
Y2	32.768K	FC-135	1
Z1	CG0603MLC-05E	R0603	1
Z2	CG0603MLC-05E	R0603	1
Z3	CG0603MLC-05E	R0603	1