



Title		
Size	Number	Revision
A4		
Date:	2022/3/21	Sheet of
File:	G:\工作文件\充电功能板.SchDoc	Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
1uF 50V	贴片瓷介电容	C1	C1206	Cap1	1
0.1uF	贴片瓷介电容	C2, C6, C7, C9, C10, C11, C12, C13, C14, C17, C18, C22, C23, C15, C16	C0603	Cap1	15
10uF 50V	贴片瓷介电容	C3, C4, C15, C16	C1210	Cap1	4
N/A	贴片瓷介电容	C5, C24	C0603	Cap1	2
2.2uF 50V	贴片瓷介电容	C8	C1206	Cap1	1
1uF 50V	贴片瓷介电容	C19, C20	C0805	Cap1	2
22pF	贴片瓷介电容	C21	C0603	Cap1	1
N/A	贴片瓷介电容	C25, C26	C1210	Cap1	2
BAT54	30V 0.2A -55 ~ 125 °C SOT23 一极管	D1, D2, D3	SOT23-3	Diode BAT54	3
PG	贴片LED	D4	LED0603	LED1	1
STAT2	贴片LED	D5	LED0603	LED1	1
STAT1	贴片LED	D6	LED0603	LED1	1
CHG	贴片LED	D7	LED0603	LED1	1
B540	5A 20-60V -55 ~ 125 °C 贴片肖特基整流管	D12	SMB [DO-214AA]	Diode B5x0	1
SMAJ28A	TVS 30V -55 to +150 °C 贴片	DZ1	SMA [DO-214AC]	D TVS *A	1
BZX84C12LT1G	0.225W 2.4-75V -65 ~ 150 °C 贴片稳压管	DZ2, DZ3	SOT-23	Diode Zener BZX84Cxx1 T1G	2
3A	贴片熔断器	F1	FUSE-0154005.DR	Fuse 2	1
8.2uH 8A	电感	L1	IHLP-2525CZ-01	Inductor Isolated	1
电池公座	Header, 5-Pin	P1	A01M-5P	Header 5	1
充电		P4	2EDGRM5P08-2	Header 2	1
SI7617DN	P-Channel -30 V (D-S) MOSFET Id -13.9A, Vgs +25V	Q1, Q2, Q3	PowerPAK1212-8	P-MOSFET SI7617DN	3
SIS412DN	N-channel 30 V, 8.7A	Q4, Q5	PowerPAK1212-8	N-MOSFET SIS412DN	2
2N7002	N-Channel MOSFET	Q6	SOT23-3	N-MOSFET 2N7002	1
10R	0603, 10K ohm, 5%, 1/10W	R1	R1206	Res1	1
0.01R	0603, 10K ohm, 5%, 1/10W	R2, R13	R2512	Res1	2
2R	0603, 10K ohm, 5%, 1/10W	R3	R1206	Res1	1
100K	0603, 10K ohm, 5%, 1/10W	R4, R6, R10, R11, R12, R29	R0603	Res1	6
1K	0603, 10K ohm, 5%, 1/10W	R5, R7, R8	R0603	Res1	3
0R	0603, 10K ohm, 5%, 1/10W	R9, R20, R70	R0603	Res1	3
10R	0603, 10K ohm, 5%, 1/10W	R14	R0603	Res1	1
32.4K	0603, 10K ohm, 5%, 1/10W	R15	R0603	Res1	1
10K	0603, 10K ohm, 5%, 1/10W	R16, R18, R22, R23, R24	R0603	Res1	5
22.1K	0603, 10K ohm, 5%, 1/10W	R17	R0603	Res1	1
500K	0603, 10K ohm, 5%, 1/10W	R21	R0603	Res1	1
2.2K	0603, 10K ohm, 5%, 1/10W	R25, R26	R0603	Res1	2
100R	0603, 10K ohm, 5%, 1/10W	R27	R0603	Res1	1
6.8K	0603, 10K ohm, 5%, 1/10W	R28	R0603	Res1	1
103AT	热敏电阻	RT1	XH2.5-2P	Res Thermal	1
BQ24630RGE(T/R)	Standalone Synchronous Switched- Mode Lithium Phosphate Battery Charger With System Power	U1	QFN50P400X400- 24WAL	BQ24630	1