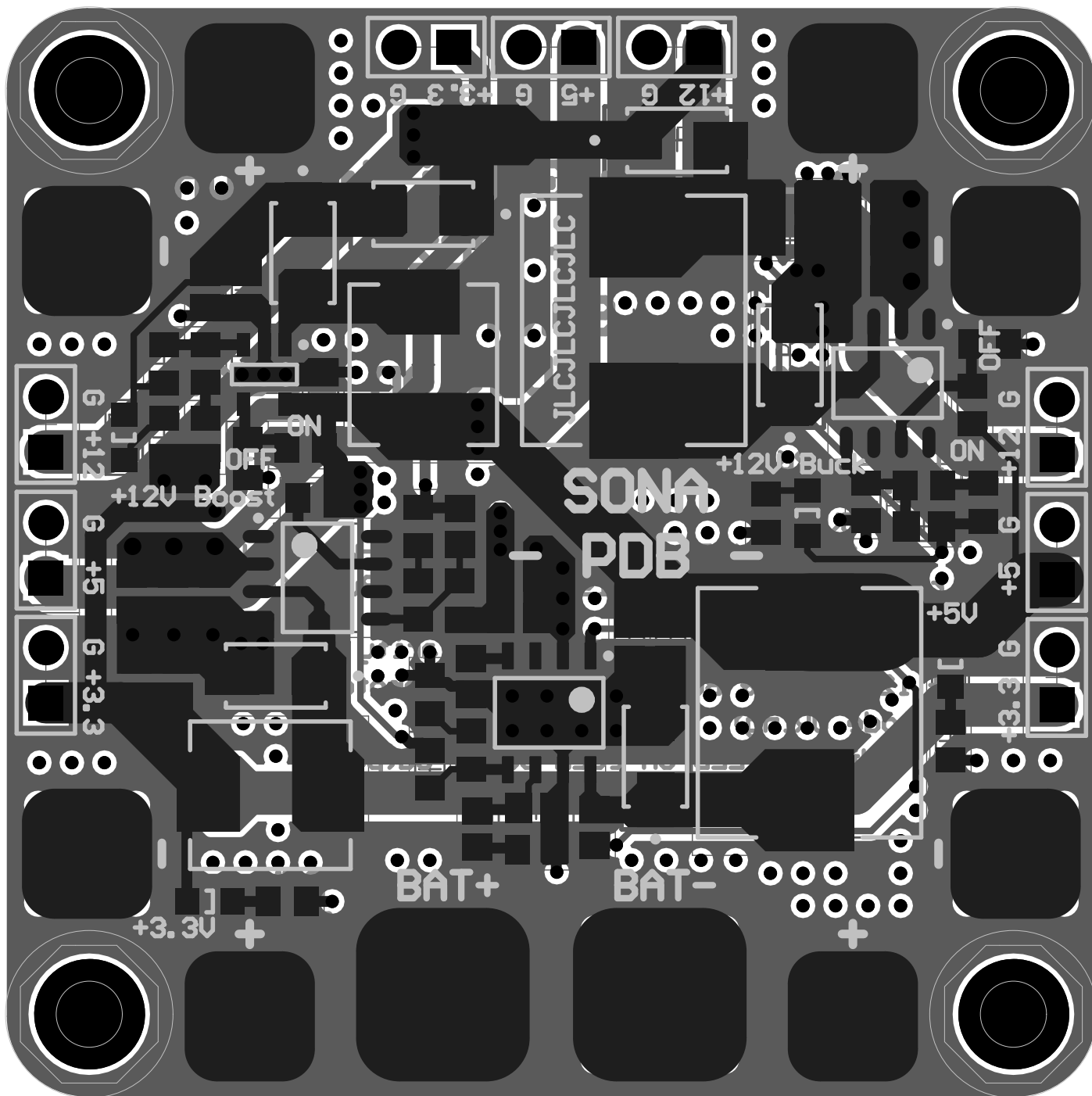


SONA - Power Distribution Board

Table		
Size	Number	Revision
C	1	1
Date	8/31/2021	Sheet of 1
File	C:\Program Files\SCH_Sona_Power Distribution Board\SCHDoc	



Comment	Description	Designator	Footprint	LibRef	Quantity
M3	M3 Mounting Bolt	B1, B2, B3, B4	BOLTM3 - with vias	BOLT	4
22u	Chip Capacitor, 100 nF, +/- 10%, 50 V, 0805 (2012 Metric)	C1, C4, C5, C7, C11, C12, C15, C17, C18, C21	CAPC2013X95X50NL1 0T25	CMP-001-00018-6	10
10u	Chip Capacitor, 100 nF, +/- 10%, 50 V, 0805 (2012 Metric)	C2, C14, C20, C23	CAPC2013X95X50NL1 0T25	CMP-001-00018-6	4
100n	Chip Capacitor, 100 nF, +/- 10%, 50 V, 0805 (2012 Metric)	C3, C13, C19	CAPC2013X95X50NL1 0T25	CMP-001-00018-6	3
47u	Chip Capacitor, 100 nF, +/- 10%, 50 V, 0805 (2012 Metric)	C6	CAPC2013X95X50NL1 0T25	CMP-001-00018-6	1
8.2n	Chip Capacitor, 100 nF, +/- 10%, 50 V, 0805 (2012 Metric)	C8	CAPC2013X95X50NL1 0T25	CMP-001-00018-6	1
1.1n	Chip Capacitor, 100 nF, +/- 10%, 50 V, 0805 (2012 Metric)	C9	CAPC2013X95X50NL1 0T25	CMP-001-00018-6	1
10p	Chip Capacitor, 100 nF, +/- 10%, 50 V, 0805 (2012 Metric)	C10	CAPC2013X95X50NL1 0T25	CMP-001-00018-6	1
10n	Chip Capacitor, 100 nF, +/- 10%, 50 V, 0805 (2012 Metric)	C16, C22	CAPC2013X95X50NL1 0T25	CMP-001-00018-6	2
B340A-13-F	DIODE SCHOTTKY 40V 3A SMA	D1, D2, D3, D4, D5, D6	FP-SMA-MFG	CMP-1667-00003-2	6
8.2u	SMMS0630-8R2M	L1	SMMS0630_INDP2523 X23N	PSPMAA0603-100M-ANF	1
8.2u	SMMS1050-8R2M	L2	INDP110100X50N_SM MS1050	PSPMAA0603-100M-ANF	1
47uH	SMMS1050-470M	L3	INDP110100X50N_SM MS1050	PSPMAA0603-100M-ANF	1
15u	SMMS0603-150M	L4	SMMS0630_INDP2523 X23N	PSPMAA0603-100M-ANF	1
PWR	Vf = 2.7V -> 3.2V	LED1, LED2, LED3, LED4	0805_A	CMP-1426-00010-1	4
Test pin		P1, P2	Test pin	Test pin	2
Test pad		P8, P9, P10, P11, P12, P13, P14, P15	Test pad	Test pad	8
61300211121	THT Vertical Pin Header WR-PHD, Pitch 2.54 mm, Single Row, 2 pins	P16, P17, P18, P20, P21, P22, P24, P25, P26	61300211121	CMP-1712-00002-4	9
100k		R1	RESC2013X70X40NL2 0T20	CMP-009-00010-5	1
10k		R2, R3, R9, R10, R11, R19, R22	RESC2013X70X40NL2 0T20	CMP-009-00010-5	7
1.2k		R4	RESC2013X70X40NL2 0T20	CMP-009-00010-5	1
1.8k		R5	RESC2013X70X40NL2 0T20	CMP-009-00010-5	1
34k		R6	RESC2013X70X40NL2 0T20	CMP-009-00010-5	1
100		R7	RESC2013X70X40NL2 0T20	CMP-009-00010-5	1
DNP		R8, R14	RESC2013X70X40NL2 0T20	CMP-009-00010-5	2
6.8k		R12	RESC2013X70X40NL2 0T20	CMP-009-00010-5	1
82k		R13	RESC2013X70X40NL2 0T20	CMP-009-00010-5	1
1.5k		R15, R16	RESC2013X70X40NL2 0T20	CMP-009-00010-5	2
5.6k		R17	RESC2013X70X40NL2 0T20	CMP-009-00010-5	1
4.7k		R18	RESC2013X70X40NL2 0T20	CMP-009-00010-5	1
2.2k		R20	RESC2013X70X40NL2 0T20	CMP-009-00010-5	1
15k		R21	RESC2013X70X40NL2 0T20	CMP-009-00010-5	1
TP554331DR	Buck Step Down Regulator with 3.5 to 28 V Input and 0.8 to 25 V Output, -40 to 150 degC, 8-Pin SOIC (D), Green (RoHS & no Sb/Br)	U1	D0008A_L	CMP-0323-00209-3	1
MT3540-F23	1.5A 5.5V SOT-23-5 DC-DC Converters ROHS	U2	SOT95P280X135-5N	MT3540-F23	1
TD1583	3A 28V SOP-8_150mil DC-DC Converters ROHS, Step-down Converter	U3, U4	SOIC127P600X175-8N	TD1583	2