

No	name	type	ical requir	quantity	reference position	remark
1	PCB	BTP078A		1		
2	chip reststor	0402-12K ±5%	SMT	1	R11	
3	chip reststor	0402-100K ±5%	SMT	3	R10 R26 R25	
4	chip reststor	0402-10K ±5%	SMT	4	R29 R33 R34 R30	
5	chip reststor	0402-220K ±5%	SMT	1	R7	
6	chip reststor	0402-10R ±5%	SMT	1	R4 R20	
7	chip reststor	0402-2K2 ±5%	SMT	2	R28 R27	
8	chip Capacitor	0402-C104(0.1uF) 10V 10% X7R	SMT	5	C27 C20 C30 C17 C32	
9	chip Capacitor	0402-C27P	SMT	1	C24	
10	chip Capacitor	0402-103(10nF) 50V 10% X7R	SMT	1	C15	
11	chip Capacitor	0402-105(1UF/6.3V)	SMT	1	C34	
12	chip reststor	0402-47K ±5%	SMT	2	R16 R17	
13	chip Capacitor	0603-C105(1UF) (25V)	SMT	1	C28	
14	chip Capacitor	0805-C106(10UF/25V)	SMT	1	C33	
15	chip Capacitor	1206-C106 X5R(10UF/25V)	SMT	1	C31	
16	SMT IC	SGM358 MSOP-8	SMT	1	U5	
17	chip Capacitor	10uF/10V A	SMT	1	C16	
	chip diode	IN4148WT/T4 SOD-523	SMT	2	D5 D6	
19	chip reststor	0402-0R ±5%	SMT	1	L4	
20	chip reststor	0402-100R ±5%	SMT	2	R35 R36	
21	chip Capacitor	100uF/6.3V B	SMT	1	C36	
22	SMT IC	BM57SPPS05 Bluetooth Module	SMT	1	U4	
23	SMT IC	MFI337A	SMT	1	U6	
1	PCB	BTP089A 2 layers		1		
2	chip reststor	0402-12K ±5%	SMT	1	R2	
3	chip reststor	0402-180K ±5%	SMT	1	R1	

4	chip reststor	0402-1K ±5%	SMT	2	R8 R3	
5	chip reststor	0402-33K ±5%	SMT	1	R15	
6	chip reststor	0402-470K ±5%	SMT	1	R19	
7	chip reststor	0805-10R ±5%	SMT	1	R5	
8	chip reststor	1206-1K ±5%	SMT	1	R9	
9	chip Capacitor	0402-100p	SMT	1	C7	
10	chip Capacitor	0402-104 10V 10% X7R	SMT	4	C8 C14 C4 C19	
11	chip Capacitor	0402-C180P	SMT	1	C3	
12	chip Capacitor	0402-223	SMT	1	C9	
13	chip Capacitor	0402-27P	SMT	1	C2	
14	chip Capacitor	0402-2P	SMT	1	C1	
15	chip Capacitor	0402-3P	SMT	2	C10 C11	
16	chip Capacitor	0402-683	SMT	3	C6 C5 C12	
17	chip Capacitor	0603-180P	SMT	1	C13	
18	chip Capacitor	0805-106	SMT	1	C21	
19	chip inductance	0402-12nH	SMT	1	L1	
20	chip inductance	0402-39nH	SMT	1	L3	
21	chip inductance	0402-47nH	SMT	1	L2	
22	self comeback fuse	1206 (0.35A/13.2V)	SMT	1	F1	
23	SMT IC	ATA5428-PLHW SMD	SMT	1	U1	
24	SMT IC	HT7333	SMT	1	U2	
25	chip tantalum Capacitor	100uF/6.3V B	SMT	1	C22	
26	chip tantalum Capacitor	10uF/20V B	SMT	1	C23	
27	chip transistor	MAR1A (SOT-23)	SMT	1	Q4	
29	chip transistor	MPS8050S-D SOT-23	SMT	1	Q5	
30	crystal oscillator	13.25311MHz 5032 SMD	SMT	1	X1	
31	chip diode	BZV55-C24	SMT	1	D2	
32	chip diode	CRS04	SMT	1	D1	
33	buzz	ATI-0903A-A3	DIP	1	BUZZ	
38	DIP capacitance	47uF/25V	DIP	1	C37	

1	PCB	BTP082A 2 layers		1		
2	chip reststor	0603-2K2	SMT	1	R23	
3	chip reststor	0603-470R	SMT	2	R6 R12	
4	chip Capacitor	0402-104 10V 10% X7R	SMT	2	C35 C25	
5	chip LED	0603-blue	SMT	1	LED3	
6	SMT IC	PIC16F1938	SMT	1	U7	
7	SMT Switch	SKQTLAE010	SMT	1		