

32588 Electronic BOM					
Item	Description	Spec. /Material	Q' ty	part placement	Remark
1	PCB	52×28×1.2mm/FR4 double side	1		
2	Selector switch	SK-24D03-G5	1	SW1	
3	Phone Jack	PJ-317A	1	J1	
4	USB Jack	A Type	1	CN1	
5	IC	BH1417 (SOP-22)	1	U1	
6	IC	MC34063 (SOP-8)	1	U3	
7	IC	LM317 (SOT-223)	1	U2	
8	Transistor	2SD2142K (SOT-23)	1	Q1	
9	Transistor	9018G (SOT-23)	1	Q2	
10	Diode	IN5817 (SMD)1206	1	D2	
11	Varactor	KV-1471E (SMD)	1	D1	
12	LED	O3 ,red	1	LED	
13	Crystal	7.6MHz+/-20PPM (HC-49US)	1	X1	
14	Inductor	150uH O6×8mm DIP	1	L2	
15	Inductor	82NH SMD 0805	1	L1	
16	Inductor	560NH SMD 0805	2	L3 L4	
17	Electrolytic cap.	220uF/10V(6X8MM) DIP	1	C11	
18	Tantalum cap.	100uF/6.3V SMD6032	2	C28 C30	
19	Capacitor	10uF 1206	4	C24 C25 C26 C29	
20	Capacitor	1uF 0603	4	C4 C5 C6 C7	
21	Capacitor	0.1uF 0603	3	C38 C20 C27	
22	Capacitor	222 0603	3	C2 C1 C21	
23	Capacitor	473 0603	1	C18	
24	Capacitor	330P 0603	1	C17	
25	Capacitor	150P 0603	2	C8 C10	
26	Capacitor	33P 0603	3	C13 C14 C19	
27	Capacitor	82P 0603	1	C16	
28	Capacitor	27P 0603	2	C3 C12	
29	Capacitor	102 0603	1	C23	
30	Capacitor	10P 0603	1	C15	
31	Resistor	0.33 Ω 1/8W ±1%DIP	1	R29	
32	Resistor	10K 0603	7	R9 R5 R10 R24 R17 R18 R19	
33	Resistor	33K 0603	3	R1 R2 R6	
34	Resistor	22K 0603	1	R4	
35	Resistor	3.3K 0603	2	R12 R14	
36	Resistor	10 Ω 0603	1	R8	
37	Resistor	3K 0603	1	R25	

38	Resistor	1K 0603	2	R26 R7	
39	Resistor	2.2K 0603	1	R11	
40	Resistor	270 $\Omega$ 0603	1	R28	
41	Resistor	680 $\Omega$ 0603	1	R27	
42	Resistor	20K 0603	1	R3	
43	Resistor	4.7K 0603	2	R15 R16	
44	Resistor	100 $\Omega$ 0603	1	R13	
45	Resistor	49.9K $\pm$ 1% 0603	2	R20 R22	
46	Resistor	75K $\pm$ 1% 0603	2	R21 R23	
47	Single wire	DO:0.6mm,L:70mm, red	1	power “+”	
48	Single wire	DO:0.6mm,L:70mm, black	1	power “-”	
49	Fuse	$\emptyset$ 5*20 (2A/250V)	1		

### 32588 Plastic BOM

1	Top cover	ABS	1		
2	Bottom cover	ABS	1		
3	Button	ABS	1		
4	Front cover	ABS	1		

### 32588 Metalware

1	Metal ring		1		
2	Spring plate		2		
3	Metal nut		1		
4	Spring		1		